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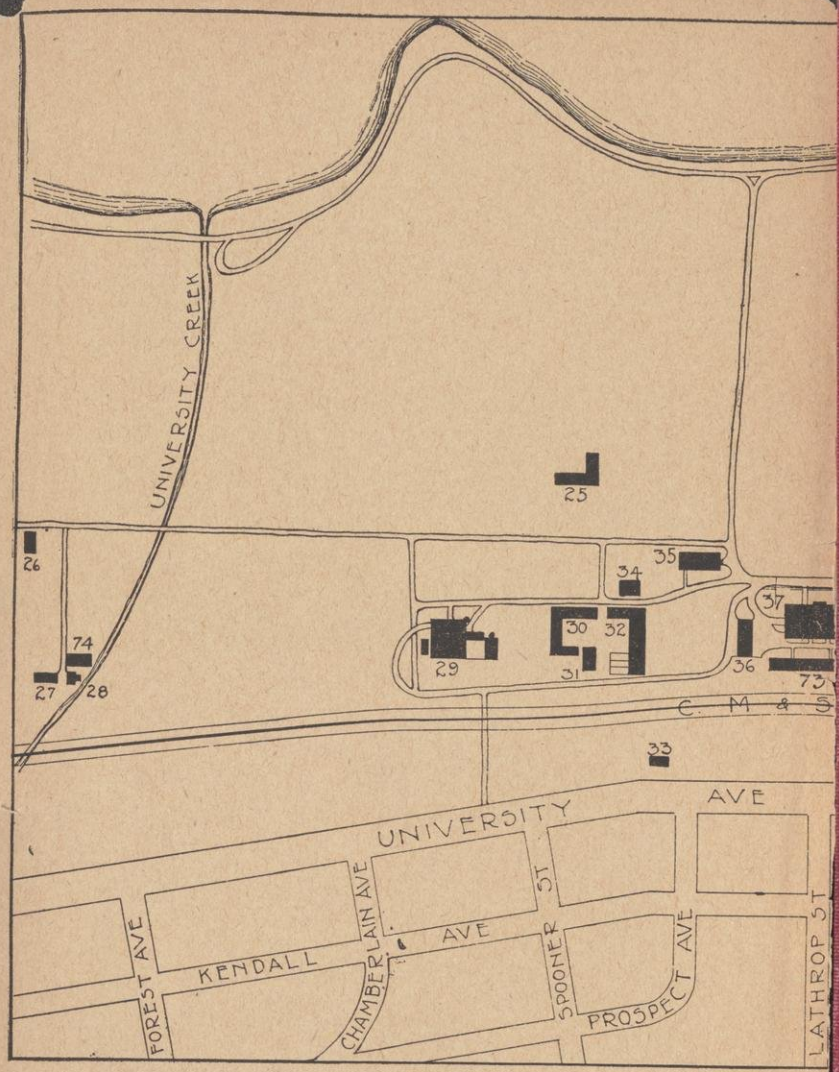
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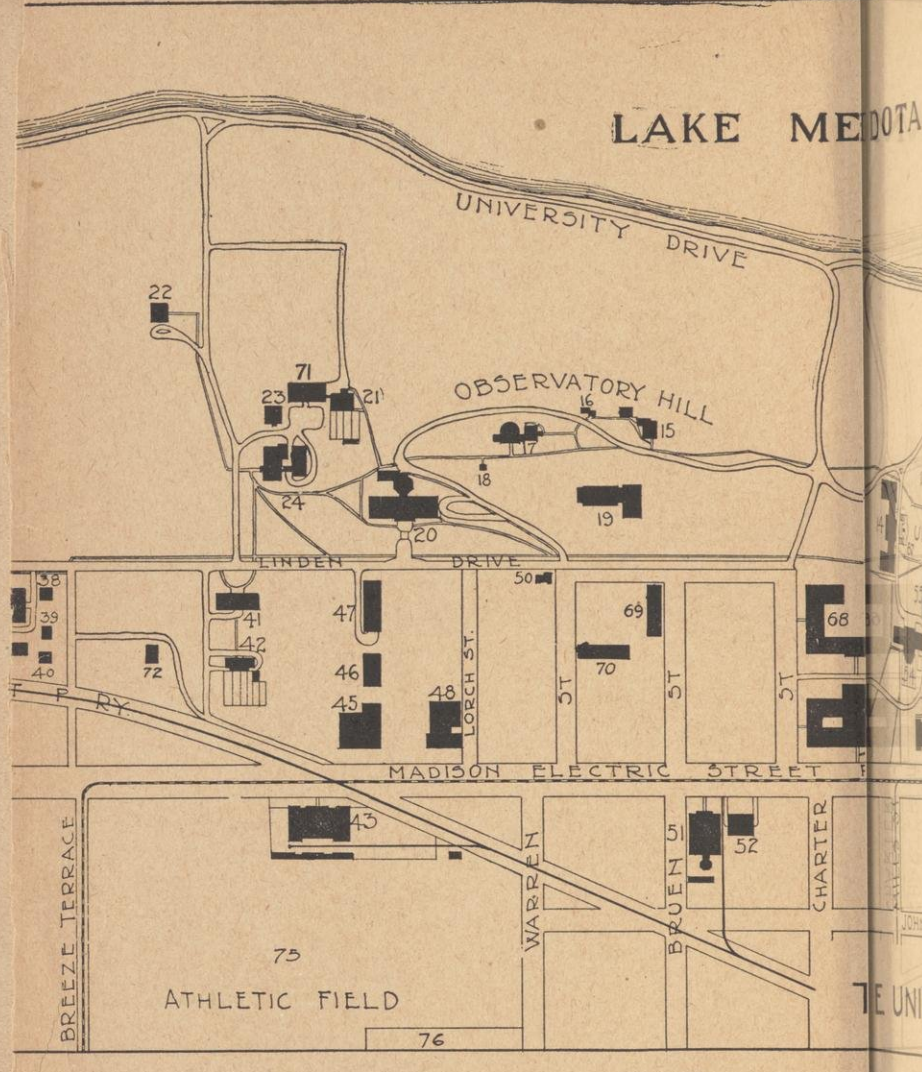
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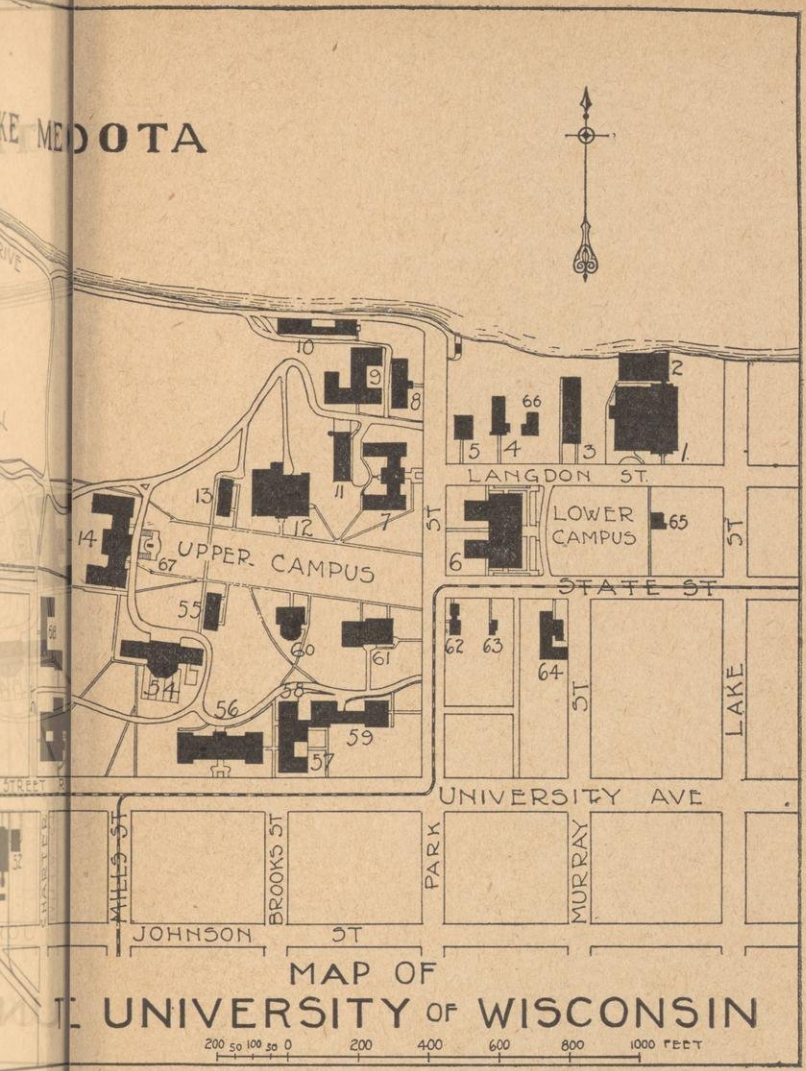
Library
of the
University of Wisconsin



62 Administration Building.
45 Agricultural Chemistry Building.
47 Agricultural Engineering Building.
20 Agricultural Hall.
46 Agronomy Building.
63 Alumni Headquarters.
37 Animal Husbandry and Live Stock Pavilion.
65 Applied Arts Laboratory.
75 Athletic Field—Camp Randall.
57 Barnard Hall.
54 Biology Building.
2 Boat Houses.
69 Bradley Memorial Hospital.
51 Central Heating Station.
59 Chadbourne Hall.
8 Chemical Engineering Building.
53 Chemistry Building.
4 Clinical Building.
29 Dairy Barn.
24 Dairy Building—Hiram Smith Hall.
23 Dairy Machinery Laboratory.
12 Engineering
9 Engineering
72 Entomology
19 Extensio. Di
39 Farm Dorm
43 Forest Prod
32 Genetics Bui
1 Gymnasium
25, 27 Hog Barn
35 Horse Barn.



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41 Horticultural Building.
10 Hydraulic Laboratory and Pump House.
34 Implement Shed.
58 Kitchen, University Commons.
56 Lathrop Hall.
60 Law Building.
67 Lincoln Statue.
76 Memorial Park. Women's Field House.
11 Mining Engineering Laboratory.
50 Model Cottage.
61 Music Hall.
13 North Hall.
18 Observatory, Solar.
16 Observatory, Student.
17 Observatory, Washburn
68 Physics Economics Building.
42 Potting House.
33 Poultry House.
22 Residence of Dean of Agriculture.
40 Residence of Farm Superintendent



1 Residence of President.
2 Residence of Stock Superintendent.
3 Residence of Director of Washburn Observatory.
5 Science Hall.
6 Service Building.
7 Hog Cholera Serum Plant.
8 Sheep Barn.
9 Soils Physics Building.
10 South Hall.
11 State Historical Library.

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

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

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1921

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1922

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CALENDAR

1920		
Sept. 20, 21, 22	Mon.–Tu.–Wed.	Registration days.
Sept. 20, 21	Mon.–Tu.	Examinations for admission.
Sept. 23	Thursday	Lectures and recitations begin.
Sept. 25	Saturday	Special examinations for removal of conditions.
Nov. 2	Tuesday	General election: legal holiday.
Nov. 25	Thursday	Thanksgiving Day: legal holiday.
Dec. 16	Thurs. (12 M.)	Christmas recess begins.
1921		
Jan. 4	Tues. (8 A. M.)	Exercises resumed.
Jan. 15	Saturday	Examinations for removal of conditions.
Jan. 31–Feb. 9	Mon.-Wed.	Final examinations, first semester.
Feb. 10, 11	Thurs.–Fri.	Registration days.
Feb. 14	Monday	Lectures and recitations begin.
Feb. 22	Tuesday	Washington's Birthday: legal holiday.
April 13–19	Wed.–Tues. (inclusive)	Spring recess.
April 23	Saturday	Examinations for the removal of conditions.
May 30	Monday	Memorial Day: legal holiday.
June 11–17	Sat.–Fri.	Final examinations, second semester.
June 16, 17	Thur.–Fri.	Examinations for admission.
June 19–22	Sun.–Wed.	Commencement week.

Commencement Week

June 19	Sunday	Baccalaureate Address.
June 20	Monday	Class Day Exercises.
June 21	Tuesday	Alumni Day.
June 22	Wednesday	Commencement Day.

Summer Session

June 27	Monday	Summer Session Opens.
August 5	Friday	Summer Session Closes.

Since the above calendar was prepared, provision was made for a special Thanksgiving recess which began at 6 p. m. Wednesday, November 24, and closed at 12 noon, Saturday, November 27. Regular work was resumed at 8 o'clock, Monday, November 29.

The Christmas recess began at 6 p. m., Friday, December 17.

THE ACADEMIC YEAR 1921-1922

1921		
Sept. 19, 20, 21	Mon.–Tu.–Wed.	Registration days.
Sept. 19, 20	Mon.–Tu.	Examinations for admissions.
Sept. 22	Thursday	Lectures and recitations begin.
*Sept. 24	Saturday	Special examinations for removal of conditions.
†Nov. 24	Thursday	Thanksgiving Day: legal holiday.
December 22	Thurs. (12 M.)	Christmas recess begins.
1922		
Jan. 3	Tues. (8 A. M.)	Exercises resumed.
Jan. 14	Saturday	Examinations for removal of conditions.
Jan. 23–Feb. 1	Mon.–Wed.	Final examinations, first semester.
Feb. 2, 3	Thur.–Fri.	Registration days.
Feb. 6	Monday	Lectures and recitations begin.
Feb. 22	Wednesday	Washington's birthday: legal holiday.
April 12–18	Wed.–Tu. (incl.)	Spring recess.
April 22	Saturday	Examinations for removal of conditions.
May 30	Tuesday	Memorial Day: legal holiday.
June 3–9	Sat.–Fri.	Final examinations, second semester.
June 8, 9	Thurs.–Fri.	Examinations for admission.
June 11–14	Sun.–Wed.	Commencement week.

*See requirements outlined in *Regulations for the Guidance of Undergraduate Students*.
†There will be only the one day's vacation.

THE UNIVERSITY OF WISCONSIN

ORGANIZATION AND DIRECTORY OF ADMINISTRATIVE OFFICERS

EDWARD A. BIRGE, President—Bascom Hall.

EDUCATIONAL ADMINISTRATION

S. H. GOODNIGHT, Dean of Men—South Hall.
F. LOUISE NARDIN, Dean of Women—Lathrop Hall.
C. A. SMITH, Acting Secretary of the Faculty—Bascom Hall.
W. D. HIESTAND, Registrar—Bascom Hall.
T. LLOYD JONES, Chairman, Committee on High School Relations—Bascom Hall.
W. M. SMITH, Librarian—Library.

BUSINESS ADMINISTRATION

H. J. THORKELSON, Business Manager—Administration Building.
M. E. MCCAFFREY, Secretary of the Regents—Administration Building.
C. W. VAUGHN, Accountant—Administration Building.
G. L. GILBERT, Bursar—Administration Building.
F. X. RITGER, Purchasing Agent—Administration Building.
E. V. HARRISON, Acting University Editor—Administration Building.
G. M. HYDE, Editor of the Press Bulletin—South Hall.

The College of Letters and Science

GEORGE C. SELLERY, Dean—2 South Hall.
F. W. ROE, Junior Dean—3 South Hall.

THE SCHOOL OF MUSIC
C. H. MILLS, Director—21 Music Hall.
THE COURSE IN CHEMISTRY
J. H. MATHEWS, Director—153 Chemistry Building.
THE COURSE IN COMMERCE
W. A. SCOTT, Director—407 Physics-Economics Building.

The Course in Journalism.
W. G. Bleyer, Director—33 South Hall.
The Library School.
M. S. Dudgeon, Director—Capitol.
The Course in Pharmacy.
Edward Kremers, Director—303 Chemistry Building.
The Department of Physical Education.
T. E. Jones, Chairman—1A Gymnasium.
The School of Education.
V. A. C. Henmon, Director—123 Bascom Hall.

The College of Engineering

F. E. Turneaure, Dean—111 Engineering Building.
J. D. Phillips, Assistant Dean—303 Engineering Building.
The Civil Engineering Course.
The Mechanical Engineering Course.
The Electrical Engineering Course.
The Chemical Engineering Course.
The Mining Engineering Course.

The College of Agriculture

H. L. Russell, Dean—101 Agricultural Hall.
J. A. James, Assistant Dean—105 Agricultural Hall.
The Experiment Station—F. B. Morrison, 105 Agricultural Hall.
Extension Service—K. L. Hatch, Assistant Director.
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—E. J. Farrington.
The Farmers' Institutes—E. L. Luther, Superintendent.

The Law School

H. S. Richards, Dean—Law Building.

The Medical School

C. R. Bardeen, Dean—Clinical Building.

The Graduate School

C. S. Slichter, Dean—157 Bascom Hall.

The University Extension Division

L. E. Reber, Dean—108 University Extension Building.
The Department of Instruction by Lectures.
The Department of Correspondence-study.
The Department of General Information and Welfare.
The Department of Debating and Public Discussion.

The Summer Session

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

THE REGENTS

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

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

THE BOARD OF VISITORS

Regent Appointments

	Term Expires
John E. McConnell, La Crosse	July 1, 1921
Mrs. Charles R. Carpenter, Chicago	July 1, 1922
George P. Hambrecht, Madison	July 1, 1923
Loyal Durand, Milwaukee	July 1, 1924

Alumni Appointments

Walter A. Rogers, Chicago	July 1, 1921
Mrs. Howard Greene, Milwaukee	July 1, 1922
Israel Shrimski, Chicago	July 1, 1923
Will A. Foster, Elkhorn	July 1, 1924

Governor's Appointments

L. J. Stair, Brodhead	July 1, 1921
W. A. Titus, Fond du Lac	July 1, 1922
Mrs. Chas. M. Morris, Milwaukee	July 1, 1923
E. B. Belden, Racine	July 1, 1924

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

The number preceding the name indicates:
[1] Leave of absence, academic year, 1920–21.
[2] Leave of absence, first semester, 1920–21.
[3] Leave of absence, second semester, 1920–21.
[4] Leave of absence, academic year, 1921–22.
[5] Appointment for part of the year, 1920–21.

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HISTORY AND GOVERNMENT

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

The state was admitted May 29, 1848; the necessary legislative acts providing for the organization of the University were approved July 26 of the same year; and the first Board of Regents met at Madison in October. The new state had nothing with which to endow the new institution but the unsettled land already granted to it. The Regents, therefore, had before them the choice of two courses—to sell the lands at low prices in competition with the other wild lands of the state, or to refrain from selling until the increase of population should have raised the value of the university property to a substantial amount. The one course would sacrifice the material endowment; the other would prevent the state from benefiting by the influence of the University in its formative years. The Regents, wisely, as the history of the state has proved, determined to open the institution without delay. The financial operations which followed have been severely condemned, but there can be no question that the intelligent bounty of the state legislature has afforded the University a safer and 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 muscles 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 criticized. There was a feeling abroad, vague but insistent, that the University did not do for the community what it should. A "practical" education was wanted, without any clear idea of what a practical education might be, or how expensive the equipment for it must be. Chancellor Lathrop resigned, and after a few months, during which the well known educational theorist, Henry Barnard, then in ill health, held the title of chancellor, the administration lapsed into the hands of the faculty, Professor Sterling presiding as vice-chancellor. The dark days of the Civil War followed. The professors lived on half pay. Many of the students took their places in the army, so that in 1864 no commencement exercises were held, only one of the senior class being in residence.

The maintenance of the institution during these days of struggle had 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 statue bears evidence of the influence of the Civil War in that it made instruction in military tactics a condition of the continuance of the grant. The very smallness of the literary college perhaps made it the more natural to amalgamate the new institution with the old, and thus to give to the University of Wisconsin its peculiar character. In the state all types of highest instruction, whether liberal, professional, or technical, are given by the one institution. A school of music and the 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 foundations of the University had now been laid, and the policy of including within it a group of technical and professional colleges, as well as a strong college of liberal arts, had been determined upon. During the presidency of Dr. John Bascom (1874–1887) the university was developed into a firmly organized and well equipped teaching institution, was brought into close and orderly relations with the other public schools of the state, and was made a moral force in the lives of its students and of the community. Dr. Bascom found the recognition of coeducation half-hearted and ambiguous and made it distinct and complete. He found the income deficient, the buildings, the library, and the scientific apparatus

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Regents, appointed by the governor of the state, include one member from each of the eleven congressional districts, and two from the state-at-large. At least two of the members are women and

the President of the University and Superintendent of Public Instruction are *ex officio* members of the Board.

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

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

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

*See map following title page.

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

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

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

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

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

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

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

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

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

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

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

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

LIBRARIES

The libraries at Madison, all of which are at the service of members of the University, are six in number, viz., the Library of the University of Wisconsin, the Library of the Historical Society of Wisconsin, the Library of the Wisconsin Academy of Sciences, Arts, and Letters, the State Law Library, the Legislative Reference Library, and the Madison Free Library. These libraries duplicate books only to supply exceptional demands, and have an effective strength approximately equal to the whole number of volumes possessed by them. The total number of bound volumes in all the libraries is about 624,000 and the number of pamphlets exceeds 338,000.

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

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

The administrative rooms of the Historical Society and of the University Library are situated at the south and north ends of the

second floor respectively. The north end of the third floor is occupied by six seminary rooms for the subjects of philosophy and 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 286,000 volumes and 55,000 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 65. This deposit, less charges for fines and damages, is returnable to the student by the Bursar upon graduation or earlier withdrawal from the University.

The Law School has a special library of 30,500 volumes. The Washburn Observatory is provided with the Woodman Astronomical Library, now containing 2,600 books and 2,800 pamphlets. The agricultural library of about 19,000 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 220,000 volumes and 233,000 pamphlets. While strong in all fields of American history and allied subjects, it is especially rich in manuscript and other material for the study of the history of the Mississippi valley. Its collections in English history are among the most extensive in this country.

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

The State Law Library in the Capitol numbers about 67,000 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.

Students are allowed to draw books from the Madison Free Library, a well selected collection of over 46,000 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	$15.00*
Library deposit required of all students upon entrance, $2.00.		
For instruction in Applied Music see 395.		
COLLEGE OF AGRICULTURE		
Short Course, three terms, *per term*	17.22	3.00
Dairy Course (Winter), *per course*	41.33	6.50
(Summer) 5 wks. minimum, *per term*	3.45	6.00
SUMMER SESSION		
Graduate School; Colleges of Letters and Science, Engineering, Agriculture (6 weeks)		20.00
Law School (10 weeks)		32.00
Chemical Engineering (5 weeks)		17.00
Field Courses; geology (4 weeks)		12.00
railroad surveys (2 weeks)		8.00
topographical engineering and surveying (4 weeks)		12.00
Extra weeks beyond the regular session, *per week*		3.00
Auditors pay the same fees as regular students.		
LIBRARY SCHOOL, resident tuition, $25 *per semester*[4]	50.00	
WISCONSIN HIGH SCHOOL,[5] *per quarter*		
6th and 5th classes, resident tuition $6.00	15.00	
4th, 3rd, 2nd, and 1st classes, tuition 8.00	15.00	

*This includes an infirmary fee of $3.00.

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

[2] Provisions for remission of nonresident tuition in certain cases are given under "Wisconsin Legislative Scholarships," p. 74. Loans may also be made to needy students. See pp. 77ff.

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

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

[5] Four quarters of twelve weeks each constitute the complete year. At present (1920) the high school is in regular session but three quarters, but probably will have a six weeks' summer term.

Laboratory Charges

Charges are made in the various laboratories to cover the expenses of material consumed. Unless otherwise noted, charges are for one semester only. The present scale of charges (1920–21) follows. If the cost of materials increases, the charges for 1921–22 will be raised accordingly. A laboratory credit equals two hours per week of laboratory work.

COLLEGE OF LETTERS AND SCIENCE

	Fee	Deposit
Botany—Per 2 hours weekly in laboratory	$1.25	.....
Key and breakage deposit, per course	.....	$.50–1.00
Except 146	4.00	2.00
Except 147	.....	5.00
Research students	3.00	.....
Chemistry		
*1, *30, *108, *130	15.00	10.00
2	9.00	6.00
*11, *11Ag, *17, *112, *118	15.00	20.00
113	3.00	5.00
119	12.00	8.00
*20, *120, *146	15.00	10.00
Thesis, undergraduate	6.00	4.00
*Thesis, graduate	15.00	10.00
Pharmaceutical—26, 27, each	10.00	5.00
40 (year)	18.00	10.00
45	2.00	3.00
Economics—Accounting—materials used.		
Geology—		
1, 121, each	1.00	.....
9, 133, each	1.50	.....
114, 115, each	3.00	.....
2	1.00	.....
8	**2.00	.....
6, 7, 108, each	6.00	.....
3, 4, each	1.50	.....
5C	.50	.....
109, 130, each	1.00	.....
Journalism—3 and 8, per credit	1.00	.....

*The fees for these courses are stated for five credits. Where the course is taken for a less number of credits the fee and deposit are proportionately less.

**$4 if microscope is used.

	Fee	Deposit
Manual Arts—		
Shop laboratory courses, per credit	$2.00	.....
51	1.50	.....
56—1st semester	1.00	.....
2nd semester	2.00	.....
70, 71, add breakage deposit	.....	$2.00
132, per year	4.00	.....
Pharmacy—		
1, per year	14.00	10.00
20	5.00	3.00
30	10.00	5.00
121	3.00	2.00
(Pharmaceutical Chemistry, see above).		
Physics—Per laboratory credit	3.00	.....
Psychology—		
10, 103, 104, 105, 115, each	2.00	.....
Zoology—		
1a, 1b, 102a, each	5.00	.50
3, 104b, 105, 116, each	4.00	.50
9, 21, 90, each	2.00	.50
119	3.50	.50
110, 123, each	3.00	.50
104a	7.00	.50
111	10.00	.50
228	5.00	.....
Thesis, $1.50 per laboratory credit.		
COLLEGE OF AGRICULTURE		
Per laboratory credit	$1.50	.....
Breakage deposit, per course	.....	$2.00
Short Course, per term	3.50	2.00
Dairy Course, winter, per course	10.00	2.00
Summer, per course	5.00	2.00
COLLEGE OF ENGINEERING		
Assaying (Mining 121) per laboratory credit	5.00	.....
Other courses, per laboratory credit	3.00	.....
Laboratory theses, per course	7.50	.....
MEDICAL SCHOOL		
Anatomy—		
115, 122, each	5.00	.....
110	10.00	.....
121, Dissection	15.00	2.50
126	8.00	2.00
Clinical Medicine—102–3–4, each	5.00	.....
Pathology—first semester, 101	15.00	.....
Pathology, second semester, 101	7.50	.....
Medical Bacteriology, 102	16.00	.....
Immunity, 104	10.00	.....

	Fee	Deposit
Pharmacology—102	$4.00	$1.00
105	15.00	2.50
Physiology 2	2.00	.....
3	3.00	.....
104	10.00	5.00
105	17.00	.....
115	15.00	2.00
114	5.00	5.00
116	8.00	1.00

Other Charges

Extra fee for payment after registration days, see p. 69	$1.00
Men's gymnasium locker fee, including laundry, semester, see p. 69	1.25
Women's gymnasium costume, see p. 70	10.00
Women's gymnasium locker fee, including laundry, semester	1.25
Deposit with abstract of doctor's thesis	50.00
Binding baccalaureate or second degree thesis	1.00

For Extension Division charges, see special bulletins.

General Requirements

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

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

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

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

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

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

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

Partial Fees and Refunds

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

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

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

No refund after eight weeks.

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

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

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

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

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

Gymnasium Practice and Military Drill

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

Women are required to take gymnastic exercise during the first two years of their course. A uniform gymnasium costume is re-

quired and should be purchased in the fall in Madison. The cost in 1920 was about $10. A locker fee, including laundry, of $1.25 per semester is charged.

Room and Board

At the present time the only rooming facilities provided by the University are in Chadbourne and Barnard Halls for women, accommodating 266 students (for details see below) and in a cooperative house accommodating 24 women. Residents of the cooperative house are usually chosen from applicants who have attended the University at least one semester. Applicants should correspond with the Dean of Women. All other students are dependent for rooms upon private rooming houses, the Y. M. C. A. building, and the various fraternity, sorority, and club houses. The prices of single rooms outside the university buildings range from $4.00 to $6.00 a week. A few double rooms can be secured for $2.50 a week per student, but the more desirable ones rent at $3.00 to $4.50 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 issue Rooming and Boarding House Directories, copies of which may be had on application. See p. 82.

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

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

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

The deposit will be credited on the rent of the room; but if the room is not taken it will be forfeited unless notification is received by the Mistress prior to September 1. Applicants must withdraw before September 1 unless willing to accept any room available at the

*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.

later assignment, or forfeit the deposit if the room is not taken. Applicants should accept the rooms assigned to them either in writing or in person before the opening day of the school year or they will forfeit the room.

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

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

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

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

Average School Year 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	$30.00	to	$30.00
Locker Fee, freshmen and sophomores	2.50	"	2.50
Women's gymnasium suit	8.00	"	10.00
Books and stationery	25.00	"	50.00
Room Rent	100.00	"	200.00
Board	216.00	"	300.00
Laundry	30.00	"	60.00
Incidental Expenses	50.00	"	150.00

Laboratory charges, depending on courses, see pp. 66ff.
Nonresident tuition, $124.

These figures estimate the cost to the *average* student; many students spend more or less. The Student Employment Bureau advise 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

*Provisions for remission of nonresident tuition in certain cases are given under "Wisconsin Legislative Scholarships," p. 74.

semester these expenses will be reduced to about $25. For subsequent years the fees for textbooks will be from $15 to $20 per semester.

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

Short Course and Dairy students' expenses will be from $135 to $190 for the course, including room, board, laundry and books.

Summer Session budget items (6 week basis):

†Incidental Fee	$20.00	to	$20.00
Room Rent	15.00	"	30.00
Board	30.00	"	50.00
Books and Stationery	5.50	"	12.00
Incidental Expenses	5.00	"	40.00
Laboratory Charges (depending on courses)	.....	"	15.00

SELF-SUPPORT

Students who desire to attend the University on a *partially* self-supporting basis will find 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, dishwashers, janitors, and choremen. Owing to the numerous requests for places, the Bureau cannot promise positions to students in advance.

Women students who wish to secure work 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.

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†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. 69.

UNDERGRADUATE SCHOLARSHIPS AND LOAN FUNDS

Wisconsin Legislative Scholarships*

Section 36.16 of the Wisconsin Statutes provides that:

"Any student who shall have been a resident of the state for one year next preceding his first admission to the University, or any student whose parents have been bona fide residents of this state for one year next preceding the beginning of any semester for which such student enters the University, shall be entitled to exemption from fees for tuition, but not from incidental fees in the University. Any student who shall not have been a resident of the state for one year next preceding his first admission to the University, except as above provided, shall not be exempt from the payment of the tuition fees until he shall have attended the University for four academic years; but if he shall have attended the University for one academic year and the next three years shall have been spent as a resident of this state; or if he shall have attended the University for two academic years and the next two years shall have been spent as a resident of this state; or if he shall have attended the University for three academic years and the next year shall have been spent as a resident of this state, he shall be entitled to exemption from payment of the tuition fees upon reentering the University. * * * The regents of the University may remit either in whole or in part tuition, but not incidental fees, to a number of needy and worthy nonresident students, not exceeding 8 per cent of the number of nonresident students registered in the preceding year, upon the basis of merit, to be shown by suitable tests, examinations or scholastic records and continued high standards of scholastic attainment."

Wisconsin Scholarships

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

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

Amelia E. H. Doyon Scholarships

The will of Mrs. Amelia E. H. Doyon, late of Madison, provided for a gift to the University of $5,000 to be known as the Amelia E. H. Doyon Student Aid Fund. The income from this fund is divided into two equal parts, designated as the Amelia E. H. Doyon Scholarships, which are to be given to young women in attendance at the University, to be selected by the Faculty. In making this

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

selection the scholarship or standing of the persons selected and their need of financial help are both taken into consideration. Neither scholarship is to be bestowed on any young woman who has not been in attendance as a student at the University of Wisconsin for at least one year.*

Fannie P. Lewis Scholarship Fund

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

Christian R. Stein Student Aid Fund

By the will of the late Christian R. Stein, of Madison, a bequest of $1,000 was made to the University, the interest of which maintains a scholarship to be given by the Faculty to a student of the University who has been in attendance at least one year.*

Mortar Board Scholarship

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

Gamma Phi Beta Scholarship

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

Kappa Kappa Gamma Scholarship

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

A. J. Horlick Scholarship

Since 1915 Regent A. J. Horlick has given a scholarship of $225 which he increased to $250 for the current year. This is awarded in

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

the College of Agriculture for special research on some phase of inheritance of disease resistance in plants.*

American Pharmaceutical Association Award

The American Pharmaceutical Association tendered a gift of $250 for an undergraduate scholarship for the year 1920-21.

South American Scholarships

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

Association of Collegiate Alumnae Scholarship

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

The Rhodes Scholarships

A scholarship is of the value of £300 a year, and is tenable for three years subject to the continued approval of the college at Oxford of which the scholar is a member. Two scholarships are assigned to each state. The election for the 1922 scholarship will be held in December 1921 or January 1922. There will be no election in Wisconsin the following year. It has been decided that the qualifying examination hitherto required of all candidates shall no longer be held, and scholars will be selected on the basis of their collegiate or university record, supplemented, if necessary, by any further tests that the Committee of Selection may, in their discretion, impose. For detailed information address, Mr. Arthur B. Doe, Secretary, Wisconsin Committee of Selection for Rhodes Scholarships, 50 Sentinel Building, Milwaukee, Wisconsin.

The Sharples Prize Scholarship

In 1920 the Sharples Separator Company of West Chester, Pa., tendered a gift of $500 annually for the establishment of a scholarship in dairying, to be known as the Sharples Prize Scholarship.

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*For information address College of Agriculture, The University of Wisconsin, Madison, Wisconsin.

**Address Secretary, Board of Regents, The University of Wisconsin, Madison, Wisconsin.

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

Loan Funds and Student Aids

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 $17,000. The sum obtained by one student in one year shall not exceed $50, and the total amount shall not exceed $200.*

Alexander H. Rogers Loan Fund

Through the generosity of the sons of the late Alexander H. Rogers, of Chicago, the sum of $1,000 from the estate of Mr. Rogers has been turned over to the University to be used as a loan fund for the assistance of needy students. By the terms of the gift no one student may secure more than $250 from this fund.*

Graduating Class Loan Fund

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

Secretary's Loan Fund

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

Emery Loan Fund

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

College of Engineering Loan Fund

The College of Engineering Loan Fund was started in 1901 by members of the faculty of the College of Engineering. It has been

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

added to at various times until it now amounts to about $800. It is used for the assistance of needy students in the College of Engineering.*

Self Government Association Loan Fund

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

Chicago Association of Wisconsin Alumnae Loan Fund

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

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.

Arthur End Music Loan Fund

In 1909 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.

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 $1500. This is loaned to needy students in small amounts with interest at 6 per cent, after maturity.***

Class of 1914 Loan Fund

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

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

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

Class of 1885 Loan Fund

In March, 1916, the class of 1885 established a loan fund, the initial remittance amounting to $58 increased in 1917 to $68; the money to be loaned to needy students.*

University League Loan Fund

In March, 1916, the League of University Women established a loan fund, the initial remittance amounting to $50. The fund has since been increased to $250, the money to be loaned to needy students.*

Class of 1916 Memorial Loan Fund

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

Kuppenheimer Loan Fund

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

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

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 $2,500 and will be increased to $5,000 by the addition of $500 annually.**

PRIZES

Lewis Prize

In 1865 Governor James T. Lewis gave $100 and in 1866 another $100 to constitute a fund the income of which was to purchase an

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

In 1919–20 the prize was awarded to Herbert J. Hagen, *Gilbert K. Chesterton; A Critical Study.*

Bryan Prize Fund

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

William F. Vilas Medal and Prize Fund

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

First: $125 for seven medals in oratory, to be known as the William F. Vilas Medals for Oratory. The Department of 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 competition on various bulletin boards.

In 1919–20 the prizes for essays were awarded: 1st prize to Elsie Gluck, *Randolph Bourne;* 2nd prize to Janet Durrie, *The Essays of George Bernard Shaw.*

Prize of the Wisconsin Menorah Society

In December, 1911, Julius Rosenwald offered the University $100 annually, to be known as the prize of the Wisconsin Menorah

Society, and to be awarded for an original undergraduate essay on a topic relating to the literature, history, or achievements of the Jewish people.

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

No award was made for 1919–20.

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 86.

Sophomore and senior honors are awarded in the College of Letters and Science. See page 121.

GRADE POINT SYSTEM

Under the grade point system, as many points are required for graduation as credits. For grade *excellent*, three points are awarded for each credit; for grade *good*, two points; for grade *fair*, one point; for grades of *poor*, no points. For the special regulations in Letters and Science, see p. 119.

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

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, to pay the regular fees, and to have class cards for the courses they elect to attend.

SUPERVISION OF STUDENT LIFE

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

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

The academic and social welfare of women students is under direct supervision of the Dean of Women. For the benefit of those women who are not accommodated in Chadbourne and Barnard Halls (see p. 70), she has prepared a directory of rooming and boarding houses. All houses listed have been inspected by her, and though responsibility for them cannot be assumed by the University, they are believed to be suitable homes for women students. A copy will be sent on application.

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

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

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

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

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

Every woman student in the University is *ipso facto* a member of the Self Government Association. The object of the association is in its own words: "To regulate all matters pertaining to the student life of its members which do not fall under the jurisdiction of the Faculty; to further in every way the spirit of unity among the women of the University; to increase their sense of responsibility toward each other, and to be a medium by which the social standards of the University can be made and kept high." Each hall of residence, each sorority house, each lodging house where more than ten girls reside, and each section of Madison where girls are living at home, has a representative on the board. The association each year provides entertainment of various sorts for university women, adds a small sum to the loan fund for girls, and undertakes, under direction of an assistant in the office of the Dean of Women, a vocational conference for the purpose of presenting to the women students 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 studies, and the adviser must give his approval before the student is permitted to enter classes. It is the duty of the adviser to guide the students under his care in all matters concerning their university courses; to see that all rules relating to required or elective studies, promotion, and graduation are strictly complied with; and, in general to aid students in obtaining the greatest individual profit from their university courses. There are no student advisers in the Law School.

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

Student Health

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

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

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

The Medical Adviser's Office is established for the general supervision of students needing medical attention. It is earnestly desired

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

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

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

SOCIETIES AND PUBLICATIONS

Literary, Forensic, Dramatic, and Musical Societies

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

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

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

The University is a member of the Midwest Debating League, composed of the Universities of Michigan, Illinois and Wisconsin. Each university meets the others in debate annually. From time to time, additional intercollegiate debates, chiefly with neighboring state universities, are arranged. Wisconsin regularly competes in the annual contest of the Northern Oratorical League composed of the Universities of 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.

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

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

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

The honorary fraternities are Phi Beta Kappa, established in 1898; Phi Kappa Phi, established in 1920; Tau Beta Pi, honorary engineering fraternity, established in 1899; Alpha Zeta, agriculture, 1906; Phi Lambda Upsilon, chemistry, 1906; Sigma Xi, science, 1907; Eta Kappa Nu, electrical engineering, 1910; Sigma Delta Chi, men's journalism, 1911; Theta Sigma Phi, women's journalism, 1910; Beta

Gamma Sigma, commerce; Delta Sigma Rho, intercollegiate oratory and debate; Sigma Sigma, medicine; Artus, economics; Pi Tau Sigma, mechanical engineering; Omricon Nu, home economics; Chi Gamma Pi, civil engineering; and Scabbard and Blade, military science.

Social and Religious Organizations

The social life of the undergraduate finds expression in more than one hundred fraternities, societies, clubs, and class organizations. The Wisconsin Union, one of the most important of the men's organizations, consists of every male student in the University. No dues nor fees are charged. The Union is active in promoting the social welfare of the student body, and has charge of the annual Union Vodvil, the quadrennial University Exposition, the musical artists series, and numerous smaller social gatherings.

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

Publications of the University

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

*This includes the classes 1849–1919.

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

Student and Alumni Publications

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

ADMISSION

METHODS

Undergraduate students are admitted:

1. Upon examination at the University. (see p. 101.)
2. Upon certificate. (See p. 101.)
3. Upon evidence of their standing in other institutions of higher learning. (See pp. 103ff.)
4. As adult special students. (See p. 107.)

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

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

Entrants are advised to present themselves several days in advance, in order to make all necessary arrangements. An additional fee is required for late registration. (See p. 69.)

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.

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

*A "unit" is not to be confused with a "credit," the University measurement of work (See definition of credit on p. 110).

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."

1. The following units are required of all:

English.....3 or 2 units
(At least three units of English are recommended for all and will be required of students who do not offer two units of one foreign language.)
Mathematics
*Algebra.....1 unit
Geometry.....1 unit

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

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

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

GROUP A

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

GROUP B

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

*College of Engineering, 1½ units.

Advised Grouping of Preparatory Subjects

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

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

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

Entrance Requirements of the Several Colleges, Schools and Courses

College of Letters and Science.

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

1. *Bachelor of Arts Courses* (General Course, Course in Commerce and Course in Journalism). Foreign language graduation requirements are 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—24 credits including Latin and French or German.

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.

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

*Five units if no foreign language is offered.
**A unit in high school equals four credits.

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. 118.)
5. *Course leading to the degree of Bachelor of Music.* Same as B. A. courses above.
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.
3. *Graduate in Home Economics* (Two-Year Course for Training Vocational Teachers in Home Making). No foreign language required.

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

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

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

COLLEGE OF ENGINEERING.

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

*Five units if no foreign language is offered.

Plane Geometry.....1 unit
Foreign Language, Science, or History.....2 units
and additional units to total 15 from III.

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

Advised Preparation for Engineering Courses

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

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

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

*Five units if no foreign language is offered.

English

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

THE TWO UNITS REQUIRED OF ALL

Composition and Rhetoric. Practice in theme writing with instruction in the principles of composition and the forms of discourse must form an important part 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 Freshmen 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 not more than one-quarter of the time, emphasis should be placed on general movements and tendencies as shown in the selections studied. In the history of English literature characteristic selections from most of the following authors should be read: Chaucer, Shakespere, 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. Shakespere'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, proportion and variation; elementary theory of exponents and radicals; the theory of quadratic equations; graphical representation 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 additional 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 oblique plane triangles; the use of logarithmic and trigonometric tables.

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

HISTORY, CIVICS, AND ECONOMICS

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

Ancient History, 1 unit.

Ancient and Medieval History, 1 unit.

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

Medieval and Modern History, 1 unit.

Modern European History, 1 unit.

English History, 1 unit.

United States History, 1 unit.

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

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

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

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

ZOOLOGY. 1 unit. Laboratory work (at least two-thirds of the course) including eight to ten types of animals, with careful descriptions and drawings; a study of life histories, habits and relation to environment. Class exercises based on any standard textbook.

LANGUAGES

GREEK. 3 units. (1) Grammar and elementary book; (2) Xenophon's *Anabasis*, four books; Greek composition; (3) Homer's

Iliad, six books or an equivalent amount of the *Odyssey;* Greek composition.

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

1 unit. (1) above.

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

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

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

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

1 unit. (1) above.

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

*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.)

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

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

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

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

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

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

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

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

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

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

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 Michelet's *First Year Norse;* (2) 100 pages of text of the grade of Bjornson's *En Glad Gut.*

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

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

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

FINE AND APPLIED ARTS

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

A tentative statement of acceptable units in these subjects is:

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

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

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

Domestic Arts. Textiles and clothing, 1 or 2.

Domestic Science. Food study, 1 or 2.

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

Music. Courses in music which the high schools credit toward graduation will be accepted after approval by the Committee on 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. 8. All candidates must be present at 9 o'clock on the first day of examination. No special examinations are given. Students who are in doubt as to their qualifications are urged to present themselves in June.

Candidates for admission may divide the subjects and take the examinations in two trials; but a failure to pass all the subjects in two trials will necessitate a complete re-examination. For the character of the entrance examinations, see pp. 93ff.

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.*

*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 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.

Principals of accredited schools are requested to note the statement regarding the examination of freshmen in English (see p. 94) 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 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 standings presenting more than fifteen units accepted for admission, provided: (1) the subjects in which advanced credit is sought are the general subjects accepted for admission to the University; (2) the work is as advanced as work given in the freshman year; (3) the course for which credit is desired be approved by the chairman of the department; and (4) the student passes a satisfactory examination at least two hours in length, held at the University before or during the Christmas recess. No advanced credit will be given for work in language unless it be in excess of six units of language offered for admission, nor will advanced credit be given for less than three semester hours.

ADMISSION WITH ADVANCED STANDING

College Courses—Wisconsin Normal Schools

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

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

A. College of Letters and Science.

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

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

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

B. College of Agriculture.

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

C. College of Engineering.

Credit for language and science, so far as these are required in Engineering, on the same basis as credit given in the College of Letters and Science. For mathematics, usually less credit; ordinarily one semester less than the amount 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 and plates made at the normal school must be submitted by a student who desires credit.

D. Law School and Medical School.

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

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

Teachers Course—Wisconsin Normal Schools

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

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

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

B. *Bachelor of Arts, and Bachelor of Philosophy (General Course)*—Graduates of the two-year departmental courses and of the specialized teachers courses who desire to become candidates for the degree of Bachelor of Arts or Bachelor of Philosophy (General Course) must submit for evaluation by the Committee on Advanced 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 other institutions who have pursued standard college courses equivalent to those of the University with an average standing of at least fair will be admitted, and will receive credit for such courses to the amount of approximately 30 credits per year upon the presentation of proper certificates of creditable standing and honorable dismissal. Blank forms for this purpose are provided by the University, and transfer records from other institutions are required to be made out on these forms and submitted, if possible, before August first. Former students of other institutions cannot be received as freshmen on the basis of their preparatory records.

The University of Wisconsin long ago proposed and has maintained arrangements with the colleges and normal schools of the

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

While, therefore, the minimum number of credits to be obtained *in residence* for a degree still remains at 30, 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, St. Clara College, 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 profes-

sional 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 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 coming an official detailed statement of their preparatory studies for evaluation and approval.

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

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

DEGREES

First Degrees

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

Academic

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

Bachelor of Philosophy (General Course), upon the graduates from the course without required foreign language.

Bachelor of Philosophy (Course for Normal School Graduates), upon the graduates from the course for normal school graduates.

Professional and Technical

Bachelor of Laws.

Bachelor of Music, upon graduates from the Four-year Course in Music.

Bachelor of Science (Agriculture).

Bachelor of Science, Home Economics Course.

Bachelor of Science, Civil Engineering Course.

Bachelor of Science, Mechanical Engineering Course.

Bachelor of Science, Electrical Engineering Course.

Bachelor of Science, Chemical Engineering Course.

Bachelor of Science, Mining Engineering Course.

Bachelor of Science, Chemistry Course.

Bachelor of Science, Pharmacy Course, upon graduates from the Four-year Course in Pharmacy.

Bachelor of Science, Medical Science Course.

Bachelor of Science, Public Health Nursing.

Bachelor of Science, Manual Arts Course.

Bachelor of Science, Physical Education Course.

Graduate in Agriculture, upon graduates from the Two-year Course in Agriculture.

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

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

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

Higher Degrees

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

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

THE COLLEGE OF LETTERS AND SCIENCE

G. C. Sellery, Dean.

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

There are also special courses in commerce, journalism, and medicine, leading to the degree of Bachelor of Arts; in chemistry, pharmacy, medicine, manual arts, and physical education, leading to the degree of Bachelor of Science; in music, leading to the degree of Bachelor of Music; and for normal graduates, leading to the degree of Bachelor of Philosophy (Course for Normal School Graduates).

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

1. Credits, Military Drill, Physical Education

The *credit* is the unit for computing the amount of work required for graduation. It is assigned to one hour of recitation or lecture or two hours of laboratory work per week for one semester (together with the accompanying study). Students are expected to secure 15 credits per semester in recitation, lectures, and laboratory work, making 30 credits per year, and 120 for the course. 120 grade points also are required for graduation. (See p. 81 for details.) In addition men are required to take 2 hours per week of physical training during the first two years, carrying a total of 4 credits. They are also required to take military work during the first two years to an amount not exceeding three hours per week, or 84 hours during each year; this work also gives a total of 4 credits. (For details see Department of Military Science and Tactics.) Women are required to take 4 hours of physical training per week during the first two years, carrying in all 8 credits. The total requirements for classroom work, military drill, and physical training are, therefore, 128 credits.

Each student is required to take class and laboratory work to the amount of 14–16 credits per semester, besides military drill and

physical training in the case of students from whom these exercises are required. A student who desires to elect fewer than 14 credits must secure permission in advance from the dean. In case a student has received a grade of *good* in each study of the preceding semester, he may take extra studies to an amount not exceeding 18 credits. No student will be permitted to receive more than 18 credits toward graduation in one semester.

Students transferring from a special course, *e. g.*, commerce or medicine, or from another college of the University, will receive no more than 15 credits a semester toward graduation for work already done, except in semesters in which all standings are 85 or above. They will not receive credit for technical studies of another college, except to the amount and under the conditions stated under Election of Studies in Other Colleges, p. 112.

2. Major Study and Thesis

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

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

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

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

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

These substitutes shall involve work equivalent to at least 4 credits and shall be so certified by the instructor on the report card of

each student taking either substitute. The several papers of each student shall deal with correlated subjects, and must be prepared with due attention to expression and to logical form. Before any student's papers shall be finally accepted as a whole, they shall be typewritten and bound together according to specifications obtaining in the case of the thesis. They shall be deposited in the University Library by the Thursday before Commencement.

3. Electives

All work not included in the required studies of each course see pp. 113 and 115 is elective, but there shall not be taken in any one department more than 40 credits, including required work, major, and electives. High school work for which university credit is given shall not count as part of these 40 credits.

4. Election of Studies in Other Colleges

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

1. Before electing studies in 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.

2. 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 by students who through correspondence study reduce the amount of required attendance at the University below two years.

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

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

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

For conditions under which a student may elect work in the Library School, see Index, under Library School.

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

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

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

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

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

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

Similarly a single semester of a foreign language will not be accepted as satisfying part of the foreign language requirement.

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

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

Under natural science are included botany, zoology (or a combined course, Biology 1), chemistry, physics, and geology. All are

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

courses of five credits per semester for two semesters, with laboratory work, or field work in geology.

d. Major study, thesis, and electives. See statement, pp. 111–112.

5. 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.

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

Mathematics:

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

Science:

Botany: 5 credits; 2 semesters; 2 lectures, 4 laboratory periods, 1 recitation.
Zoology: 5 credits; 2 semesters; 2 lectures, 4 laboratory periods, 1 recitation.
Biology: A year's course arranged by combining Botany 1 (first semester) and Zoology 1b (second semester).
Chemistry: 5 credits; 2 semesters; 3 lectures, 3 laboratory periods, 1 recitation.
Physics: 5 credits; 2 semesters; 3 lectures, 2 laboratory periods, 2 recitations; or 2 lectures, 1 laboratory period, 3 recitations.
Geology: 5 credits; 2 semesters.
Astronomy: 3 credits; 1 semester. (This course cannot be offered as part of required science.)

History:

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

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

Drawing: 3 credits; 1 or 2 semesters.

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

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

English 1, Greek 1, 7, and 10, Latin 1, 2, 3, 4, 6. German 1 to 3, and 10, French 1, 10, 13, 14, 15, Spanish 1, 10 14, 15, Italian 1, Mathematics 1, 2, 3, 5, 6, 8, Biology 1, Botany 2, Zoology 1b, Chemistry 1, Physics 1 and 18c, Geology 1 and 4, Astronomy 1, History 1, 5, and 10, Drawing (Freehand and Mechanical), Journalism 1 (no credit). Only the five credit courses in science can be counted toward the science required for graduation.

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

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

a. English, 10 credits (5 credits per semester for two semesters *or* Freshman English plus sophomore composition) *for students who do not elect foreign language in the freshman year.* 6 credits (3 credits per semester for two semesters) *for students who elect foreign language in the freshman year.*

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

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

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

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

Studies of the Freshman Year

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

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

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

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

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. (See p. 225.)

V. 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. (See p. 229.)

VI. 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. 391.)

VII. 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. 232.)

Students who have completed the regular four year Course in Chemistry will receive the degree of Bachelor of Science, Chemistry Course. (See p. 218.)

Students who have completed the regular four year Course in Manual Arts will receive the degree of Bachelor of Science, Manual Arts Course. (See p. 256, 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. 261, School of Education.)

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

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

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

and language groups of studies. The language requirements are those laid down for admission to the Medical School. (See Index.)

IX. Requirements for the Degree of Bachelor of Philosophy

Course for Normal School Graduates

Graduates of the two-year departmental courses of the state normal schools are admitted to advanced standing in the various courses and colleges of the University on conditions given under the heading Admission. (See Index.) A special course, leading to the degree of Bachelor of Philosophy (Course for Normal School Graduates), has been arranged by the University to meet the needs of most of those who graduate from the departmental courses of the state normal schools. Such graduates are admitted to junior standing in candidacy for this degree. The course contains a minimum required amount of advanced studies in philosophy and education—6 credits in each—with the privilege of further elections in those subjects. All courses in philosophy, except course 1 (elementary psychology), are open to election by normal school graduates. In education, no elementary course may be elected by a normal school graduate; the courses which he may elect in fulfillment of requirements are those numbered above 100 on pp. 151–152 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 on the same conditions as obtain for the B.A. degree. (See p. 111.)

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

The required work in the course, including a minimum of 20 credits in the major study, amounts to at least 48 credits. The student may not take courses that total more than 16 credits for the first semester, and he is under the same rules regarding number of credits as the student in the B.A. course. (See p. 110.) It is expected that the normal school graduate will give special attention to preparation for teaching some one branch of instruction, and he should choose his electives so as to attain this end. He must on entering select work in some one department as his major study. His adviser will be assigned from that department, and it will be the duty of the adviser to arrange the student's work so that he may satisfy the requirements both of the course and of the major study. These may be satisfied in two years, except in a few departments.

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

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

A student who completes the course for normal school graduates may secure the University Teachers Certificate by fulfilling the requirements stated on page 243.

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

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.

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

The general regulations concerning the grade point system are stated on page 81. The special regulations of the College of Letters and Science are as follows:

1. A student in any course requiring 120 academic credits for graduation must secure 60 grade points and at least 60 credits in order to absolve the academic requirements of the first half of his

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

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

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

Graduation in Less Than Four Years

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

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, 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 them in residence.

In special cases the Executive Committee of the College, on application to the dean, may permit a senior, who has completed 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 and the adviser must give his approval before the student is permitted to elect them.

The University Teacher's 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 teacher's certificate, see p. 243.

Honors in the College of Letters and Science

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

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

*See "Grade Point System," page 81.

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

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

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

Departments of Instruction

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

ANATOMY

Professors Bardeen (chairman), Miller; Assistant Professors Sullivan, Bast; Instructors Geist, Batson, Bemis; Assistants Bach, Craighill, Ivey, Krohn.

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

For Undergraduates and Graduates

110. Histology and Organology. I; 4 cr. Dr. Miller.

115. Mammalian Embryology. I or II; 2 cr. Dr. Bardeen.

120. Anatomy for students of physical education. II; 6 cr. Dr. Bardeen.

121. Human Anatomy. Yr. I; 6-8 cr.; II; 4-6 cr. Dr. Bardeen, Dr. Sullivan.

122. Topographical Anatomy. I or II; 3 cr. Dr. Bardeen.

123. Special Human Anatomy. Dr. Bardeen.

126. Neurology. II; 4 cr. Dr. Miller.

130. Advanced Anatomy. Dr. Bardeen.

131. Historical Seminary. Dr. Miller.

For Graduates

235. Investigation under direction.

ASTRONOMY

Professor Comstock.

For Undergraduates

1. General Astronomy. I; 3 cr. Open to freshmen. No previous mathematical training required.

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

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

For Undergraduates and Graduates

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

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

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

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

For Graduates

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

BIOLOGY

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

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

BOTANY

Professors Allen, Jones, Keitt, Kraus, Overton (chairman); Associate Professors Gilbert, Smith; Assistant Professors Bryan, Denniston; Curator Davis; Instructors Baird, Raber, Steil; Assistants Fellows, Fisk, Horton, McFarland, Martin, Pearson, Showalter, Stockhausen; Student Assistants Brownrigg, Copeland, Foote.

Fellow, Miss Reid.

Major in Botany

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

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

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

For Undergraduates

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

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

For Undergraduates and Graduates

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

102. Methods in Plant Pathology. I; 3 cr. Prerequisite: Plant Pathology 101. Mr. Keitt.

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

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

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

106. Morphology of Seed Plants. II; 3 cr. Prerequisite: course 1 or its equivalent. Mr. Smith.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For Graduates

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

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

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

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

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

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

224. Applied Botany. II. Prerequisites: Botany 106, 146. Mr. Kraus.

225. Research in Plant Pathology. Yr. Mr. Jones, Mr. Keitt, Mr. Gilbert.

248. Physiology of the Fungi. I. Prerequisites: Course 146 or its equivalent, and a knowledge of physics and chemistry. (Omitted in 1920–21.) Mr. Overton.

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

CHEMISTRY

Professors Fischer, Kahlenberg, Kremers, Lenher, Mathews (chairman), Walton; Associate Professor Krauskopf; Assistant Professors Adkins, Daniels, Day, Kemmerer, Langenhan, Schuette, Skinner; Instructors Barker, Bohnson, Clark, Frick, Hickey, Kraemer, Mason, Moore, Schierz, Schmidt, Schrenk, Strickler, Trautmann, Wakeman, Williamson, Wise; Assistants Andrews, Botts, Carroll, Dawley, Hertzman, Hoover, Jenkins, Julian, Klein, Koch, Krause, Lauter, Lewis, Lerch, Lueck, Metschl, Muehlberger, Parsons, Rollefson, Sebrell, G. B. L. Smith, H. K. Smith, Steinle, Taylor, Tosterud, Warttman, Whitford; Student Assistant Templeton; Teaching Fellows, Conover, Murphy.

Honorary Fellows, Mr. Atsushi Matsubara, Mr. Ward L. Ray.

Fellow, Mr. H. W. Stone.

DuPont Fellow, Mr. F. L. Browne.

Scholars, Miss Alice Crew, Mr. G. G. Town, Miss Vira Winchell.

Research Assistants, Mr. H. B. Merrill, Mr. G. Ramsdell.

Major

For an undergraduate major in chemistry are required, in addition to a thesis, at least 30 credits consisting of course 1, one semester of course 11, one semester of course 120, and one semester of course 130.

For Undergraduates

1a. General Chemistry. I or II; 5 cr. Mr. Walton, Mr. Krauskopf, and staff.

1b. General Chemistry and Qualitative Analysis. II; 5 cr. Mr. Walton, Mr. Krauskopf, and staff.

2a. General Chemistry. I or II; 3 cr. For freshmen in engineering. Mr. Kahlenberg, Mr. Krauskopf, Mr. Day, and staff.

2b. General Chemistry. II; 3 cr. For freshmen in engineering. Mr. Kahlenberg, Mr. Day, and staff.

4. Senior Thesis. Yr.; 2 cr.

10. Mathematical Chemistry. I; 3 cr. Prerequisites: algebra and trigonometry. Mr. Daniels.

11. Quantitative Analysis. Yr.; 3 to 5 cr. Prerequisite: General chemistry, including qualitative analysis. (First semester of course 11 repeated in second semester.) Mr. Lenher and staff.

11Ag. Quantitative Analysis. I; 3 cr. For agricultural students. Prerequisite: General chemistry, including qualitative analysis. Mr. Lenher and staff.

11 Eng. Quantitative Analysis. I; 5 cr. For engineering students. Prerequisite: General chemistry, including qualitative analysis. Mr. Kemmerer and staff.

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

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: Courses 1, 11, and 17. Mr. Kremers, Miss Wakeman.

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

30. Physical Chemistry. I; 3 cr. For chemical engineering students. Mr. Mathews, Mr. Daniels, and staff.

40. Plant Chemistry. Yr.; 3 cr. 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. Mr. Langenhan.

For Undergraduates and Graduates

107. History of Chemistry. I; 2 cr. Mr. Kahlenberg.

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

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

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

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

118. Iron and Steel Analysis. Prerequisite: Chemistry 11. Mr. 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. Mr. Fischer, Mr. Adkins, Mr. Skinner.

123. Characterization of Organic Compounds. II; 3 cr. Prerequisite: Chemistry 120. A study of homologous reactions, separation, and identification of organic compounds. Designed for students wishing to pursue research in organic chemistry. Mr. Skinner.

124. Advanced Survey of Organic Chemistry. Yr.; 2 cr. Prerequisite: A year course in organic chemistry. Lectures and quizzes. Mr. Adkins.

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

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

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

130. Physical Chemistry. Yr.; 5 cr. Prerequisites: Chemistry 1 and 11, and Physics 1 or 1Sc. Mr. Mathews, Mr. Daniels, and staff.

131. Electrochemistry. II; 2 or more cr. (Given 1921–22.) Mr. Mathews.

132. Thermal Chemistry. I; cr. to be arranged. (Given 1921–22.) Mr. Mathews.

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

135. Chemistry of Solutions. Yr.; 2 to 5 cr. (Given 1921–22.) Mr. Kahlenberg.

136. Relation of Physical Chemistry to other Sciences. I; 2 cr. (Given 1920–21.) Mr. Kahlenberg.

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

144. Thermodynamics as Applied to Chemistry. II; 2 cr. Prerequisites: Chemistry 130 and a course in calculus. (Given 1920–21.) Mr. Daniels.

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

For Graduates

209. Lives of Great Chemists. II; 1 cr. Mr. Kahlenberg.

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

224. Advanced Organic Chemistry. 2 cr. Lectures. A cycle of four semesters which students may enter any semester. Mr. Fischer.

234. Chemical Equilibrium. I; 1 cr. (Given 1921–22.) Mr. Walton.

235. Advanced Physical Chemistry. II. Hours to be arranged. Mr. Daniels.

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

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

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

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.

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

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

253. Research in Inorganic Chemistry. Mr. Lenher and Mr. Kemmerer.

255. Advanced Inorganic Analysis. 2 cr. Lectures. (Given 1921–22.) Alternates with Chemistry 251. Mr. Lenher.

CLASSICS

Emeritus Professor Smith; Professors Showerman, Slaughter (chairman); Associate Professors Fiske*, Laird; Assistant Professors Allen, Sabin; Assistants, Miss Jennings, Miss Rogers.

Adams Fellow, Mr. Haley.

University Fellows, Mr. Logan and Miss Riggs.

Scholar, Miss Simpson.

The courses in Classics are divided into three groups:

*Absent on leave 1920–21.

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

II. 105–127 are open to students who have completed Greek 20 or Latin 7, or an equivalent, and may be counted toward the master's degree. Latin 90 and 107 are required of all students who desire the University Teachers Certificate in Latin.

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

Greek or Latin Majors

The requirements for a major in Greek or Latin are twenty-four credits as a minimum, not including Greek 1 or Latin 1. Greek 20, 105, and 106, to the extent of six credits, may be counted toward a Latin major. At least six credits in addition to the thesis should be chosen from courses 105 to 127, but no specific requirement of courses is made. (See pages 246–47 for requirements for Teachers Certificate.)

GREEK

For Undergraduates

1a. Elementary Greek. I and II; 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. Laird.

For Undergraduates and Graduates

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

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

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

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

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

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

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

112. General Survey of Greek and Roman Civilization. Yr.; 1 or 2 cr. (See Latin 112.) Mr. Showerman.

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

122. Classical Art. Yr.; 3 cr. (See Fine Arts 122.) Mr. Showerman.

For Graduates

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

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

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

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

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

LATIN

For Undergraduates

1. Elementary Latin. I or II; 5 cr. Miss Jennings, Miss Riggs, Miss Rogers.

2. Caesar. I or II; 5 cr. Miss Allen, Miss Jennings, Miss Rogers.

3. Cicero. I or II; 4 cr. An additional hour for those who desire prose composition. Miss Allen.

4. Virgil's Aeneid I-VI. I or II; 4 cr. Miss Allen.

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

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

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

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

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

90. The Teaching of Latin in Secondary Schools. I; 2 cr. Miss Sabin.

For Undergraduates and Graduates

107. Prose Composition. Yr.; 1 cr.; 2 cr. if an additional elective hour of lectures on syntax is taken. Mr. Fiske.

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

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

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

111. Virgil's Aeneid, VII-XII. I; 3 cr. Mr. Slaughter.

112. General Survey of Greek and Roman Civilization. Yr.; 1 or 2 cr. Greek and Latin not essential. Mr. Showerman.

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

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

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

190. Background of High School Latin. II; 2 cr. Miss Sabin.

For Graduates

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

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

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

228. Roman Archaeology. II; 3 cr. 112 with an additional hour for reports. Latin essential. Mr. Showerman.

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

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

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

233. Latin Seminary. Yr.; 2 cr. In 1921–22 the subject will be the *Monumentum Ancyranum*. Mr. Slaughter.

COMPARATIVE LITERATURE

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

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

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

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

For Undergraduates

1. Ancient Classical Epic. II; 3 cr. Mr. Slaughter.

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

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

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

For Undergraduates and Graduates

102. Renaissance Epic. II; 2 cr. Does not count for the English major. Mr. Dodge.

113. Ancient Classical Drama. I; 3 cr. (See Greek 113.) Mr. Showerman.

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

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

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

For Graduates

244. The Medieval Drama. I; 2 cr. Its liturgical origins. Mr. Young.

248. Medieval Literature. Mr. Reed.

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

254. French Romanticism in its International Relations. Yr.; 2 cr. Mr. Cerf.

For Anglo-German relations see German 248A.

ECONOMICS

PROFESSORS COMMONS, ELWELL, ELY, GARDNER, GILLIN, GILMAN, HESS, HIBBARD, KIEKHOFER (CHAIRMAN), MACKLIN, ROSS, SCOTT; ASSOCIATE PROFESSORS LESCOHIER, MCNALL; ASSISTANT PROFESSORS HAAKE, JEROME, MCKAY, MCMURRY, S. L. MILLER; RESEARCH ASSOCIATES BAKER, WEHRWEIN; RESEARCH INSTRUCTOR SHINE; LECTURER BEECHER; INSTRUCTORS DENNISON, FISHER, FRYE, GIBSON, GLAESER, HENSEY, HERTZLER, HINMAN, KOLB, MERTZKE, PERLMAN; ASSISTANTS BABER, BRANDENBURG, BUECHEL, CARR, DIETRICH, DORAU, DUWE, ELVEHJEM, HALL, JOME, KING, LEE, MCCRACKEN, G. MILLER, PEASE, RIORDAN, SMITH, STILES, TYLOR.

FELLOWS, MISS DAVIS, MR. HAWTHORN, MR. REED.

SCHOLARS, MR. EKE, MR. MCINTYRE.

Organization

The Department of Economics, administratively organized in the College of Letters and Science and the College of Agriculture, is also a member of the Division of Economics, History, Law, Philosophy, and Political Science. This Division has been established for the encouragement and supervision of graduate and research work in the social studies.

Aims

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

1. To provide instruction in economics and sociology for undergraduates in all the colleges and schools of the University. Emphasis is placed upon the cultural importance, professional values and citizenship use of these studies. Economics and sociology as aids to the intelligent discharge of one's duties as an American citizen receive particular attention.
2. To provide advanced work for graduate students working for higher degrees.
3. To assist and encourage the development of economic research studies.
4. To provide special professional training for business pursuits, industrial service, social service, and the public service.

Requirements for an Undergraduate Major

Students majoring in the Department of Economics may take their major in either economics or sociology. Thirty credits, se-

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

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

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

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

The thesis may be written in any one of the fields designated in Groups II–XI as described on pages 144–147; 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.

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 page 225 of this catalogue and in the special Bulletin of the Course in Commerce.

Requirements for the Master's Degree

The attention of graduate students is called to the general requirements of the Graduate School as set forth under Graduate School. (See Index.)

All candidates for the master's degree must have adequate undergraduate training, and must present from the graduate courses

offered by 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 master's degree. The candidate will be expected on the basis of his undergraduate and graduate training to show thorough knowledge of the principles of economics, familiarity with statistical method and intensive knowledge of one or more of the special fields designated in Groups I–XII. The credits to be offered must be selected in conference with the major professor.

Candidates shall be admitted to the examination for the master's degree only in case their grades in all courses taken during the previous semester (or summer session) were *good* or above. A thesis is regarded as part of the regular requirements for the degree.

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
(All four fields required of all)

1. Economic theory; 2. History of economic thought; 3. Statistics; 4. History of economic or social institutions.

GROUP B
(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.)

GROUP C
(Two to be selected)

1. Ancient history; 2. Mediaeval history; 3. Modern European history; 4. English history; 5. American colonial history; 6. History of the U. S.; 7. History of philosophy; 8. Logic and scientific method; 9. Metaphysics; 10. Ethics; 11. Psychology; 12. History of political thought; 13. Comparative government; 14. American government and constitutional law; 15. State and local government; 16. Administrative law; 17. Legislation; 18. International law; 19. World politics; 20. Personal and real property; 21. Contracts and torts; 22. Crimes; 23. Agency.

Substitutions can be made in special cases if the Department approves.

Thesis

A thesis suitable for publication must be presented for approval at least 30 days before the final examination.

Examinations

Candidates must pass two examinations: a preliminary and a final examination, separated by an interval of at least seven months.

Admission to candidacy for the degree will be based upon the preliminary examination. A candidate may apply for preliminary examination in as many of the seven fields, exclusive of the special field of the thesis, as he is ready for. If the examination proves meritorious, the candidate may be excused from any further examination in these fields.

The preliminary examination will be written, but a supplementary oral examination may also be held.

The final examination will cover such fields as have not been covered in the preliminary examination. It will be oral, but supplementary written examinations may also be held.

Application for Candidacy

Candidates will be expected to make written application for admission to candidacy for the degree. Blanks for this purpose may be procured in the office of the chairman of the department. They must be filed and favorably acted upon by the Department before the preliminary examination can be scheduled.

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 pages 221ff. 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 corporations, or for

such positions as factory inspector with state and federal departments of labor, or as employment agents in the state and federal employment service.

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

Vocational conferences are held with the Industrial Commission, at which employment managers and service workers from various establishments, along with the deputies of the Commission, describe the practical work of the profession. The Industrial Commission also gives practical work in safety and sanitation, in handling child labor permits, and in reports and statistics required of employers, covering accidents, compensation, wages, etc.

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

A suggested sequence of courses for students is as follows:

Sophomore Year.

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

Junior Year.

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

Senior Year.

Labor Problems or Labor Legislation (Economics 122 or 123).
Socialism or Labor History (Economics 146 or 145).
Economic Statistics (Economics 132).
General Sociology (Economics 140).
Business Management (Economics 11).
City Planning and Housing of Wage Earners (City Planning 101 and 102).

Vocational Education and Guidance (Manual Arts 113).
Job Analysis (Manual Arts 109).
Social Significance of Disorders of Speech (Speech 125).

Inquiries concerning industrial relations should be addressed to Professor John R. Commons.

SOCIAL WORK

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

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

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

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

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

The special studies of the last two years of this program should be selected by the student in consultation with his adviser. The selec-

tion will be made with direct reference to preparing the student so far as possible for the particular kind of social work in view. The following courses are suggested:

Freshman Year

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

Sophomore Year

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

Choice advised from (1) Elementary Law (Political Science 2); Psychology (Philosophy and Psychology 1); Elementary Logic (Philosophy and Psychology 11); (2) History of the U. S. (History 4); History of the West (History 111); American Government and Politics (Political Science 7); General Zoology (Zoology 1); Household Bacteriology (Agricultural Bacteriology 4).

Junior Year

Economics..... 6 credits

Choice advised from (1) Labor Problems (Economics 122); Labor Legislation (Economics 123); (2) American Labor History (Economics 145); Labor History and Socialism (Economics 146); Industrial Evolution (Economics 120).

Sociology.....9 credits

Choice advised from (1) Criminolgy and Penology (Economics 161); Social Psychology (Economics 139); Poverty and Relief (Economics 141); Rural Life (Economics 25); (2) Social Problems (Economics 4).

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

Choice advised from (1) Heredity and Eugenics (Zoology 6); Abnormal Psychology (Philosophy and Psychology 107); Community Recreation (Physical Education 80); (2) Social and Political Ethics (Philosophy and Psychology 42); Industrial Insurance (Economics 121); Home Economics 1; First Aid to the Injured (Physical Education 16); Americanization (Economics 170); The American People (Economics 172).

Free Electives..... 3 credits

Senior Year

Sociology..... 13 credits

Choice advised from (1) Methods of Social Service (Economics 147); Principles of Social Case Work (Economics 164); Rural Life (Economics 25); (2) General Sociology (Economics 140).

Thesis..... 4 credits
Selected Electives..... 15 credits

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

Choice advised from (1) Advanced Composition (English 6); Newspaper Reporting and Correspondence (Journalism 2); Correction of Speech Defects (Speech 25); (2) Home Economics 7, 10, 123; City Planning 101, 102.

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 Department of Agricultural Economics 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 will be to treat from the economic point of view the main kinds of land, e. g., agricultural, urban, mineral, forest land.

Courses in land economics may be taken with other studies for their cultural value and may also be pursued as a preparation for a variety of occupations.

The first two years' work of those desiring an undergraduate major should be devoted mainly to studies of a liberal character, such as literature, philosophy and languages. In the sophomore year Economics 1a and 1b or Agricultural Economics 1 should be taken to prepare for specialization in the junior and senior years.

Students wishing to specialize in land economics are advised to take the following courses offered by the Department of Economics:

Elements of Economics (Economics 1a and 1b), or Agr. Econ. 1; Statistics (Economics 130); Evolution of Industrial Society (Economics 120); Money and Banking (Economics 5); Labor Problems (Economics 122); Rural Life (Economics 25); Marketing of Farm Products (Economics 128); Seminary in Marketing (Economics 228); Advanced Agricultural Economics (Economics 229); Land Problems (Economics 226); Land Economics (Economics 221); Urban Land Economics (Economics 179); Thesis.

The following courses are suggested from the courses offered by other departments in the University, but naturally there will be variation in accordance with the special purpose of the student whose needs will be considered in consultation with his adviser:

Agricultural Geography (Geology 106); Advanced Economic Geography (Geology 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 1); Landscape Gardening (Horticulture 6); 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. Opportunities will be afforded for special research in Marketing and Cooperation, in Land Settlement and Land Tenure Problems, in Urban Land Problems, in Land Taxation, in 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. Mr. Kiekhofer, Mr. Baber, Mr. Brandenburg, Mr. Buechel, Mr. Dennison, Mr. Dorau, Mr. Elvehjem, Mr. Glaeser, Mr. Haake, Mr. Hertzler, Mr. Jome, Mr. Lee, Mr. McCracken, Mr. McKay, Mr. Mertzke, Mr. Smith, Mr. Tylor.

1b. Elements of Economics. I or II; 4 cr. Exchange, consumption, public finance, economic policies. Prerequisite: Economics 1a. Mr. Kiekhofer, Mr. Brandenburg, Mr. Buechel, Mr. Dennison, Mr. Elvehjem, Mr. Haake, Mr. Hertzler, Mr. Jome, Mr. Lee, Mr. McCracken, Mr. McKay, Mr. Miller, Mr. Smith, Mr. Tylor.

118. Problems of Property. II; 3 cr. Prerequisites: Economics 1a and 1b. Mr. Ely, Mr. Glaeser.

200. [1]The Classical Economists. I; 3 cr.; II; 1 cr. Prerequisites: Economics 1a and 1b. (Given 1922–23.) Mr. Scott.

[1] Courses 200, 201, 202 constitute a three-year cycle, one being given each year.

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

202. [1]The Austrian School and Recent Developments. I; 3 cr.; II; 1 cr. Prerequisites: Economics 1a and 1b. (Given 1921–22.) Mr. Scott.

210. [2]Value and Valuation—Legal Theories. Yr.; 2 cr. (Given 1922–23.) Mr. Commons.

211. [2]Value and Valuation—Economic Theories. Yr.; 2 cr. (Given 1920–21.) Mr. Commons.

212. [2]Value and Valuation—Administration. Yr.; 2 cr. (Given 1921–22.) Mr. Commons.

220. Property and Contract. II; 3 cr. Mr. Ely.

222. Custom and Competition. II; 3 cr. Mr. Ely.

223. Monopolies and Trusts. II; 3 cr. (Given 1920–21.) Mr. Ely.

250. Advanced Economics. I; 3 cr.; II; 1 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. II; 2 cr. 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.

225. Rural Social Organization. I; 2 cr. Mr. Kolb.

227. Economic History of Agriculture. II; 2 cr. Mr. Hibbard.

228. Seminary in Marketing. II; 2 cr. Mr. Macklin.

229. Advanced Agricultural Economics. Yr.; 2 cr. Mr. Hibbard.

III. ACCOUNTING

***8a, 8b. The Elements of Accounting.** Yr.; 2 cr. Mr. Elwell, Mr. McMurry, Mr. Gibson, Miss Hensey, Mr. Duwe, Mr. Pease.

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[1] Courses 200, 201, 202 constitute a three-year cycle, one being given each year.

[2] Courses 210, 211, 212 constitute a three-year cycle, one being given each year.

*In the College of Letters and Science this course may not be counted as a part of the 120 credits required for graduation, except by students in the Course in Commerce.

181. Theory and Practice of Accounting. I; 3 cr. Prerequisite: Economics 8a, 8b. Mr. Elwell, Mr. McMurry, Mr. Gibson, Miss Hensey, Mr. Duwe, Mr. Pease.

182. Cost Accounting. II; 2 cr. Prerequisite: A minimum grade of 85 in Economics 181. Mr. Elwell, Mr. McMurry.

183. Advanced Accounting Problems and Income Taxes. I; 2 cr. Prerequisite: A minimum grade of 85 in Economics 181. Mr. McMurry.

184. Auditing. II; 2 cr. Prerequisite: A minimum grade of 85 in Economics 181. Mr. McMurry.

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.

IV. BUSINESS ADMINISTRATION AND COMMERCIAL LAW

***11. Business Management.** I; 2 cr. Fundamentals. Prerequisite: Economics 1a. II; 2 cr. Problems. Prerequisite: A minimum grade of 80 in Economics 11. Mr. Haake, Mr. Stiles.

***12. Credits and Collections.** II; 2 cr. Prerequisites: Economics 1a, 5 and 11. Mr. Haake, Mr. Stiles.

***13. Marketing Methods.** I; 2 cr. Prerequisite: junior standing. Mr. Gardner, Mr. Fisher, Mr. Riordan.

***14. Sales Administration.** II; 2 cr. Prerequisite: Economics 13. Mr. Gardner, Mr. Fisher, Mr. Hinman, Mr. Riordan.

****15. Retail Advertising.** I; 2 cr. Prerequisite: English 4. Mr. Gardner, Mr. Fisher.

****16. Advertising Campaigns.** II; 2 cr. Prerequisites: Economics 13 and 15. Mr. Gardner, Mr. Fisher, Mr. Hinman.

109. Commercial Law. Yr.; 4 cr. Prerequisite: senior standing or consent of instructor. Mr. Gilman, Miss Frye, Mr. Hall, Mr. King.

V. ECONOMIC POLICIES

125. International Economic Policies. II; 3 cr. Prerequisites: Economics 1a and 1b. Given in alternate years with Economics 155. Mr. Kiekhofer.

155. National Economic Policies. II; 3 cr. Prerequisites: Economics 1a and 1b. Given in alternate years with Economics 125. Mr. Kiekhofer.

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*In the College of Letters and Science this course may not be counted as a part of the 120 credits required for graduation, except by students in the Course in Commerce.

**In the College of Letters and Science this course may not be counted as a part of the 120 credits required for graduation except by students in the Course in Commerce, and the Course in Journalism majoring in advertising.

VI. INSURANCE

121. Industrial Insurance. I; 2 cr. Prerequisite: Economics 1a. Mr. Beecher.

138. Insurance Economics. I; 3 cr. This course should precede Mathematics 124. Prerequisite: Economics 1a. Mr. Beecher.

238. Seminary in Insurance. Yr.; 2 cr. Prerequisite: Economics 1a. Mr. Beecher.

VII. LABOR

122. Labor Problems. I; 3 cr. Prerequisites: Economics 1a and 1b. Given in alternate years with Economics 123. (Given 1921–22.) Mr. Commons.

123. Labor Legislation. I; 3 cr. Prerequisites: Economics 1a and 1b. Given in alternate years with Economics 122. (Given 1920–21.) Mr. Commons, Miss Dietrich.

145. American Labor History. II; 3 cr. Prerequisites: Economics 1a and 1b. Given in alternate years with Economics 146. (Given 1920–21.) Mr. Commons, Miss Dietrich.

146. Labor History and Socialism. II; 3 cr. Prerequisites: Economics 1a and 1b. Given in alternate years with Economics 145. (Given 1921–22.) Mr. Commons.

149. Labor Management. Yr.; 1 or 2 cr. Prerequisites: Economics 1a and 1b. Mr. Wisler.

171. Employment Management. II; 3 cr. Prerequisites: junior standing and Economics 170 or a course in Labor. Mr. Lescohier.

174. Labor Market. II; 3 cr. Prerequisites: Economics 1a and 1b. Mr. Lescohier.

265. Seminary in Labor and Industry. Yr.; 2 cr. Labor legislation. Labor history. Mr. Commons, Mr. Witte, Mr. Perlman.

VIII. LAND ECONOMICS

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

179. Urban Land Economics. II; 3 cr. Mr. Ely, Mr. Glaeser.

221. Land Economics. Yr.; 3 cr. Mr. Ely, Mr. Wehrwein.

226. Land Problems. Yr.; 2 cr. Mr. Ely, Mr. Hibbard.

IX. MONEY, BANKING AND FINANCE

5. Money and Banking. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Scott, Mr. Haake, Mr. McKay, Miss Frye.

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. Given in alternate years with Economics 134. (Given 1920–21.) Mr. Scott.

134. The Money Market. II; 3 cr. Prerequisite: A minimum grade of 80 in Economics 5. Given in alternate years with Economics 133. (Given 1921–22.) Mr. Scott.

137. Corporation Finance. I; 3 cr. Prerequisite: Minimum grades of 80 in Economics 5 and 8b. Mr. Gilman, Miss Frye, Mr. McKay, Mr. Miller, Mr. Stiles.

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. Elements of Public Finance. I; 3 cr. Prerequisite: Economics 1a. Mr. Jerome.

124. Taxation. II; 3 cr. Prerequisite: Economics 3 or graduate standing. Mr. Jerome.

257. Seminary in Taxation. Yr.; 2 cr. Prerequisite: Training in public finance. Mr. Jerome.

XI. PUBLIC UTILITIES

135. Railway Transportation. I or II; 3 cr. Prerequisites Economics 1a. Mr. Miller, Mr. Dorau, Mr. Elvehjem, Mr. Stiles.

136. Railway Problems. II; 3 cr. Prerequisite: Economics 135. Given in alternate years with Economics 168. (Given 1920–21.) Mr. Miller, Mr. Dorau.

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. (Given 1921–22.) Mr. Miller.

266. Seminary in Public Utilities. Yr.; 2 cr. Prerequisite: Economics 142. Mr. Glaeser.

XII. SOCIOLOGY

4. Social Problems. II; 3 cr. Mr. Ross, Mr. Perlman.

46. Social Origins. Yr.; 2 cr. Mr. Gillin, Mr. Hertzler.

139. Social Psychology. I; 3 cr. Prerequisite: junior standing. Mr. Ross, Mr. Perlman, Mr. Tylor.

140. General Sociology. II; 3 cr. Prerequisite: Economics 1a or senior standing. Mr. Ross, Mr. Perlman.

141. Poverty and Relief. I; 3 cr. Prerequisites: Economics 1a, 46. Given in alternate years with Economics 161. (Given 1921–22.) Mr. Gillin.

147. Methods of Social Service. II; 2 cr. Prerequisites: Economics 1a, 46, and senior standing. Given in alternate years with Economics 164. (Given 1921–22.) Mr. Gillin.

161. Criminology and Penology. I; 3 cr. Prerequisites: Economics 1a, 46. Given in alternate years with Economics 141. (Given 1920–21.) Mr. Gillin, Mr. Tylor.

164. Principles of Social Case Work. II; 2 cr. Prerequisites: Economics 1a, 46, and senior standing. Given in alternate years with Economics 147. (Given 1920–21.) Mr. Gillin.

170. Americanization. II; 3 cr. Prerequisites: junior standing and Economics 1 or History 4 or Political Science 7 or Education 41. (Given 1921–22.) Mr. Lescohier.

172. The American People. Yr.; 3 cr. Prerequisites: junior standing and Economics 1 or History 4 or Political Science 7 or Education 41. (Given 1920–21.) Mr. Lescohier.

256. [1]Development of Correctional Policies. I; 2 cr. (Given 1921–22.) Mr. Gillin.

258. [1]Degeneracy and Society. I; 2 cr. (Given 1922–23.) Mr. Gillin.

259. [1]Development of Poor Law Policy. I; 2 cr. (Given 1920–21.) Mr. Gillin.

260. [2]Seminary on the Demography and Sociology of Cities. I; 2 cr. (Given 1923–24.) Mr. Ross.

261. Research Seminary. II; 2 cr. Mr. Ross.

262. [2]Seminary on the American Family. I; 2 cr. (Given 1922–23.) Mr. Ross.

263. [2]Seminary on the Dynamics of Population. I; 2 cr. (Given 1921–22.) 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).

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[1] Courses 256, 258, 259 constitute a three-year cycle, one being given each year.

[2] Courses 260, 262, 263 constitute a three-year cycle, one being given each year.

XIII. STATISTICS

130. Statistical Method. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Jerome, Mr. Baber, Mr. Buechel, Mr. Dennison, Mr. Elvehjem, Mr. Jome, Mr. Mertzke.

131. Prices, Wages, and Cost of Living. II; 3 cr. Prerequisites: Economics 1a, 130. Mr. Hess.

132. Economic Statistics. II; 3 cr. Prerequisite: Economics 130. Mr. Jerome.

EDUCATION

PROFESSORS HENMON (CHAIRMAN), O'SHEA; ASSOCIATE PROFESSORS CHASE, CLAPP, T. LLOYD-JONES, MILLER, UHL; LECTURERS FITZPATRICK AND MEEK; ASSISTANT PROFESSOR WEST; INSTRUCTOR HOYT; ASSISTANTS MCCRORY, REED, TOWNLEY.

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) Principles of education and mental development in the child and in the race; (3) Educational psychology; (4) Organization, administration, and supervision of education; (5) Educational practice under supervision.

Seminary and research courses in each of the main divisions of education are offered.

Students below the junior class are not admitted to any course in education except upon the written permission of the instructor in charge. This permission will be granted only to mature students and to students properly prepared who are under the necessity of leaving the University, before graduation, to enter teaching.

Courses 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 normal schools without special action by the department.

Major in Education

Undergraduate students selecting education as a major subject are required to obtain credit in approved courses amounting to twenty-two hours, including the thesis. Graduate students selecting education as a major will be expected to show familiarity with the general aspects of each of the divisions of education before they

will be admitted to candidacy for either a master's or a doctor's degree.

Master's Degree—Summer Session and In Absentia Work

All candidates for the degree of Master of Arts or the degree of Master of Philosophy, fulfilling the general university requirements therefor by study during the summer sessions and *in absentia*, and presenting education as a major subject, must comply with the following special requirements:

(1) Ordinarily, three summer sessions in residence at this University, in addition to *in absentia* work, are required.

(2) Candidates who have not already satisfactorily completed courses in psychology and education equivalent to the existing requirements for the University Teachers Certificate will be required to devote at least four summer sessions, together with *in absentia* work, to the fulfillment of the requirements.

(3) All candidates must pass satisfactory examinations in the four divisions of Education: (a) The History of Education; (b) The Principles of Education and Mental Development; (c) Educational Psychology; (d) Educational Organization, Supervision and Administration. Each year, in the month of June, during the period of *in absentia* study, every candidate must pass an examination in at least one of these divisions. The reading required for these examinations is listed in a special department circular.

(4) Each candidate must prepare a thesis presenting the result of original work. The thesis must be begun during the first year of *in absentia* study, and each summer, during the period of *in absentia* study, a satisfactory report must be made thereon to the instructor under whom it is being prepared. The thesis must be completed during the last summer of residence study.

(5) Each candidate must have an adviser in the division in which his thesis is being prepared. Each summer this adviser must approve the candidate's program of residence and *in absentia* study.

(6) Each candidate must earn at least four credits in graduate courses in education during each summer of residence study.

(7) At the opening of each summer session every candidate should secure the approval of the Dean of the Graduate School for his proposed course of study.

University Teachers Certificate

The requirements for the University Teachers Certificate will be found on p. 241.

For Undergraduates

6. Public Education. I or II; 2 or 3 cr. Mr. Clapp.

11. Mental Development. I or II; 2 or 3 cr. Mr. O'Shea.

31. Principles of Education. I or II; 3 cr. Mr. Uhl.

41. Educational Psychology. I or II; 2 or 3 cr. Prerequisite: Psychology (Philosophy 1). Mr. West.

90. Technique of Instruction. I or II; 2 cr. Mr. Uhl.

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; 2 cr. Mr. Chase.

102. History of Ancient and Medieval Education. I; 3 cr. Mr. Chase.

103. History of American Education. II; 2 cr. (Omitted 1920–21.) Mr. Chase.

104. State School Systems. II; 3 cr. Prerequisites: Education 6 or equivalents. Mr. Clapp.

107. School Surveys and Tests. II; 2 cr. Prerequisite: Education 110 or equivalent. Mr. Clapp.

108. High School Organization. II; 2 cr. (Omitted 1920-21.) Mr. Miller.

110. Supervision of Instruction. I; 3 cr. Prerequisites: at least one course in educational psychology, or its equivalent, and teaching experience. Mr. Clapp.

112. Social Development and Education. I or II; 2 or 3 cr. Mr. O'Shea.

113. Principles of American Education. I or II; 2 or 3 cr. (Omitted 1920-21.) Mr. O'Shea.

120. Educational Administration. I; 3 cr. Mr. Meek.

142. Experiments in Educational Psychology. I or II; 1 or 2 cr. Prerequisites: Education 41 and one other elementary course in education. Mr. West.

144a. Advanced Educational Psychology. I; 2 cr. The psychology of individual differences. Prerequisite: Education 41 or equivalent. Mr. Henmon.

144b. Advanced Educational Psychology. II; 2 cr. The psychology of learning. Prerequisite: Education 41 or equivalent. Mr. Henmon.

145. Educational Measurements. I; 2 cr. Prerequisites: Education 41 and 142, or equivalents. Mr. West.

146. Experimental Education. II; 2 cr. Prerequisite: Education 41 or equivalent. Mr. West.

151. Concrete Problems in School Control. II; 3 cr. Mr. Meek.

For Graduates

The following courses are open to graduate students and to normal school graduates of senior standing majoring in education.

205. European School Systems. I; 2 cr. Prerequisites: Education 6 and 104, or equivalents. (Omitted 1920-21.). Mr. Clapp.

216. Contemporary Educational Movements. I; 2 cr. (Omitted 1920–21). Mr. Chase.

220. Seminary in Education. Yr.; 1 or 2 cr. Prerequisite: any two courses in education. Mr. O'Shea.

231. Seminary in Administration and Supervision of Education. Yr.; 1 or 2 cr. Prerequisite: Education 104 or 110, or equivalent. Mr. Clapp.

244. Mental Tests. Yr.; 2 cr. Prerequisite: Education 41 and 142, or equivalents. Mr. West.

248. Seminary in Educational Psychology. Yr.; 1 or 2 cr. Prerequisites: Education 41 and 142, or equivalents. Mr. Henmon.

251. Seminary in Public School Administration. Yr.; 1 or 2 cr. Mr. Fitzpatrick.

ENGLISH

Professors Hubbard, Young (chairman); Associate Professors Cairns, Campbell, Dodge, Lathrop, Manchester, Pyre, Roe; Assistant Professors Beatty, S. A. Leonard, W. E. Leonard, Nardin, Taylor; Instructors Babcock, Batchelor, Beattie, Bierstadt, Brosius, English, Fernberg, Fulcher, Glicksman, Haddow, Harkness, Heltzel, Kelsey, McGinnis, McLean, J. Moore, Reid, Roberts, Ryan, Scallon, Schubert, Shoenberger, Small, Wallerstein, White, Willson, G. P. Wilson, Zucker; Assistants Borland, Clark, Clugston, E. Moore, Pease, Price, Sandidge, Schwab, Spence, Tuttle.

The courses of the department are intended to serve five main purposes: (1) To train students in the use of English as a means of expression and communication for the ordinary demands of social, com-

mercial, and professional life; (2) to continue that training to suit the special needs of those who intend to take up literary or journalistic work; (3) to develop the literary sympathy and appreciation and to extend the knowledge of those who find in English and American literature the readiest means of obtaining the advantages of a liberal education; (4) to prepare teachers of English for school and college work; (5) to fit students for and assist them in scholarly investigation. Most of the courses will be found to meet all these ends, directly or indirectly, but some are especially directed to one or two in particular. Every student is encouraged to select the courses most suited to his or her own needs, but certain courses are prescribed as necessary for adequate equipment in particular lines of work.

Undergraduate Courses

All students in the Colleges of Letters and Science, Engineering, and Agriculture are required to take Freshman English (Course 1 or its equivalent). The General Survey (Course 30) is prerequisite to the other literature courses, and is also recommended for students who desire a general knowledge of English literature, but are unable to carry their study of the subject further.

Students taking English as an elective course outside the major study are advised to select courses mainly from the undergraduate group. Those who make English their major study, after providing for the required courses, may choose at will from this or the following group (for undergraduates and graduates).

English as a Major Study

Students intending to choose English as their major study are strongly recommended to take General Survey (30) in their sophomore year.

At the beginning of the year in which they decide upon their major subject they should consult the chairman of the department, who will assign them to an adviser. They are required to take twenty-four credits as a minimum, exclusive of the thesis and of course 1 (required of all students). The twenty-four credits must include course 30 (6 credits) and one course from each of the following groups: (a) 36 or 137; (b) 34, 35, or 40; (c) 31, 120a, 157, 158, 159, or 160.

A total of thirty-six credits, in addition to the thesis and course 1, may be elected in this department.

Candidates for the degree of Ph.B. choosing English as their major subject are required to fulfill the same conditions as obtain for the B.A. degree.

For Teachers

The requirements for the teachers certificate for those electing English as their major or minor will be found on p. 245.

Library Work

Students who take the joint course arranged at the University and State Library School may find it to their advantage to choose English as their major study. Of the twenty hours of library work for which credit is given by the University four may be counted towards an English major if the candidate so desires, reducing the minimum departmental requirement to twenty credits (exclusive of the thesis and course 1). In addition to courses 1 and 30, which are required of all, library students are recommended to select courses of a more general character from the group primarily for undergraduates, especially 34, 35, 36 or 137, 39, 40. For detailed information in regard to preparation for library work, see Library School, p. 235.

The M.A. Degree

Candidates for the degree of master of arts who intend to take one-half or more of their work in English should consult the chairman of the department as to the courses most suitable to their purpose. They are required to show that they have had sufficient preliminary training in English language and literature to undertake graduate work, or to complete such preliminary training in addition to the graduate work required; if they have not taken an undergraduate course in the English language, they will be required to take at least three credits in that subject, but this requirement may be satisfied by an adequate training in Greek and Latin. They are expected to take at least two unit hours each semester from the courses restricted to graduates.

M.A. in Absentia

The advanced study required for the M. A. *in absentia* in this department consists of two graduate courses taken in each of three consecutive summer sessions, with work done in continuation of one of the two courses each year. Particulars may be obtained from the chairman, Department of English.

The Doctor's Degree

Special requirements for the doctor's degree (English major) are:
1. The general history of English literature.

2. Anglo-Saxon and Middle English.

3. Special knowledge of the particular field chosen for study.

4. Reasonable acquaintance with the political and social history of the period.

5. Auxiliary studies, varying according to the particular field chosen. For example: for the sixteenth century, Latin, Italian, German, and French; for the classical period, Latin and French; for the romantic period, and for the nineteenth century, French and German.

6. A thesis and examination.

RHETORIC AND COMPOSITION

For Undergraduates

A. English Composition. For students who have failed to pass the test prescribed on page 94. Three hours a week; no undergraduate credit. Miss Scallon and staff.

1a. Freshman English. I or II; 3 cr. Required of freshmen in the Colleges of Agriculture and Engineering, and of freshmen in the College of Letters and Science who do not take English 12a (see below). Mr. Manchester and staff.

1b. Freshman English. I or II; 3 cr. Continuation of 1a. Required of freshmen in the College of Agriculture and Engineering, and of freshmen in the College of Letters and Science who do not take English 12b (see below). On the completion of this course, a provisional pass mark is given; if subsequently a student is reported deficient or careless in English composition, he may be required to take additional work in that subject. Mr. Manchester and staff.

12a. Freshman Rhetoric. I; 5 cr. Required of those freshmen looking forward to the degree Ph.B., General Course, who do not take foreign language in their freshman year. (Omitted 1920–21.) Mr. Lathrop.

12b. Freshman Rhetoric. II; 5 cr. Continuation of 12a; required of the same category of students. On the completion of course 12b a provisional pass mark is given; if subsequently a student is reported deficient or careless in English composition, he may be required to take additional work in that subject. (Omitted 1920-21.) Mr. Lathrop.

2. Sophomore Composition. Yr.; 2 cr. Open to students who have passed English 1b or 12b. Mr. Taylor and staff.

3a. Argumentation. I; 3 cr. Lectures, textbook, practice exercises. Prerequisite: English 1b or 12b. Mr. O'Neill.

3b. Argumentative Addresses. II; 2 cr. Prerequisite 3a. Mr. O'Neill.

4. Commercial Correspondence. II; 2 cr. Taken for credit only by students in a technical course, by seniors preparing to teach the subject, and by students who have taken one semester of English 2. Mr. Gardner, Mr. Fisher, and staff.

11. Advanced Commercial Composition. I; 2 cr. Prerequisite: good work in English 4. Taken for credit only as part of a technical course. (Omitted 1920–21.) Mr. Gardner.

5. Junior Composition. Yr.; 2 cr. Prerequisite: a grade of 85 or over in English 1b or 12b, or credit in English 2. Mr. Harkness.

6. Advanced Composition. Yr.; 3 cr. Elective for juniors and seniors. Mr. Dodge.

107. Narration. Yr.; 2 cr. Open to juniors and seniors who have taken one composition course in advance of English 1b or 12b. Mr. Cairns.

108. Dramatic Writing. II; 2 cr. As a prerequisite to admission, candidates are expected to submit an acceptable scenario. Mr. Pyre.

9. Technical Composition. II; 3 cr. Elective for juniors and seniors in Engineering who have had English 1b. (Omitted 1920–21.)

For Graduates

217. The Teaching of Freshman English. II; 2 cr. (Omitted 1920–21.)

ENGLISH LANGUAGE AND LITERATURE

The insertion of CL after a course number indicates that the course belongs also to Comparative Literature.

For Undergraduates

7CL. Contemporary Drama. Yr.; 2 cr. Does not count toward the major in English. Mr. Pyre.

8CL. Contemporary Novel. Yr.; 2 cr. Does not count toward the major in English. (Omitted 1920–21.) Mr. Campbell.

25. The English Language. I; 3 cr. Open to sophomores, juniors, and seniors. Mr. Hubbard.

30. General Survey. Yr.; 3 cr. Prerequisite to all courses in English literature; required of sophomores taking English as their major, and recommended to students desiring a single course in English literature. Mr. W. E. Leonard, Mr. Pyre (chairman of conference), Mr. Roe, Mr. Young, and staff.

31. Chaucer. I; 3 cr. Mr. Beatty.

32. The Study of Literature. Yr.; 3 cr. Not counted toward the English major. Mr. Gardner.

34. The Romantic Movement. I; 3 cr. Mr. Campbell, Mr. Beattie.

35. The Victorian Era. II; 3 cr. A continuation of 34. Mr. Campbell, Mr. Beattie.

36. Elizabethan Drama. Yr.; 3 cr. Mr. Pyre.

38. Prose Style. Yr.; 2 cr. (Omitted 1920–21.) Mr. Taylor.

39. The Novel. Yr.; 2 cr. Mr. Lathrop.

40. American Literature. Yr.; 2 cr. The course should be preceded or accompanied by English 30. Mr. Cairns, Mr. Harkness.

48. The Literary Aspects of the English Bible. I; 3 cr. Mr. Lathrop.

54. Carlyle and Ruskin. I; 3 cr. Mr. Roe.

55. Emerson and Arnold. II; 3 cr. Mr. Roe.

90a. The Teaching of English. I; 2 cr. Mr. S. A. Leonard.

90b. The Teaching of English. II; 2 cr. Mr. S. A. Leonard.

Observation of teaching is required in each course. 90a and 90b are required of all candidates for the teachers certificate (English major); an advanced composition course (to be taken in the sophomore and junior year) and 90a are required of all candidates for the minor teachers certificate in English.

For Undergraduates and Graduates

102CL. Renaissance Epic. II; 2 cr. Does not count toward the major in English. Mr. Dodge.

120a. Anglo-Saxon. I; 3 cr. Mr. W. E. Leonard.

120b. Middle English. II; 3 cr. A continuation of course 120a. Mr. W. E. Leonard.

121. Anglo-Saxon Poetry. I; 3 cr. (Omitted 1920–21.)

122. Beowulf. II; 3 cr. Open to seniors. Mr. Hubbard.

123. Modern English Grammar. I or II; 3 cr. Mr. Hubbard.

137. Shakspere. Yr.; 3 cr. Mr. Young, Mr. Roberts.

141. Tennyson. II; 2 cr. Mr. Beatty.

142. Versification. II; 2 cr. (Omitted 1920–21.) Mr. Pyre.

143. Familiar Essay. Yr.; 2 cr. Mr. Taylor.

144. Wordsworth. II; 3 cr. Mr. Beatty.

145. Browning. I; 2 cr. Mr. Pyre.

146CL. The Ballad. I; 2 cr. Counts toward the major in English. Mr. Beatty.

149a. Emerson. I; 2 cr. Mr. Cairns.

149b. Whitman. II; 2 cr. (Omitted 1920–21.) Mr. Cairns.

153. Philosophy in the English Poets. Yr.; 2 cr. Mr. W. E. Leonard.

157. Milton. II; 2 cr. Mr. Dodge.

158. The Age of Dryden. II; 3 cr. (Omitted 1920–21.) Mr. Lathrop.

159. The Age of Pope. II; 3 cr. Mr. Lathrop.

160. The Sixteenth Century. I; 3 cr. Mr. Dodge.

161. Rhetoric. II; 2 or 3 cr. (Omitted 1920–21.) Mr. Lathrop.

166. Literary Criticism. Yr.; 3 cr. Mr. Manchester.

For Graduates

224. English Philology Seminary. Yr.; 2 cr. Subject for 1920–21, Anglo-Saxon Poetry. Mr. Hubbard.

231. Introductory Seminary in English Literature. Yr.; 2 cr. Subject for 1920–21, Milton. Mr. Hubbard.

232. Introductory Seminary in English Literature. Yr.; 2 cr. Subject for 1920–21, Wordsworth. Mr. Campbell.

244. Seminary in English Literature. Yr.; 2 cr. Subject for 1920–21, Mediaeval Drama. Mr. Young.

247. Seminary in American Literature. Yr.; 2 cr. (Omitted 1920–21). Mr. Cairns.

FINE ARTS

Professor Showerman.

122. The Fine Arts. Yr.; 2 cr. (Given in 1920–21, and in alternate years.) Illustrated general survey of architecture, sculpture, and painting from classical antiquity to the present time.

FORESTRY

Lecturer Tiemann.

For Undergraduates

1. Forestry and Utilization of Wood. I; 2 cr. See Forest Products Laboratory.

GEOLOGY AND GEOGRAPHY

Professors Leith (chairman), Mead, Whitbeck, Winchell; Associate Professors Finch, Twenhofel; Assistant Professors Lobeck, Steidtmann; Instructors Blanchard, Loft; Curator Thwaites.

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 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.

The Geography Group. For this group the introductory courses are 4 and 5C; the latter is required of all students in the Course in Commerce. Courses 4 or 5C 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.

GENERAL GEOLOGY

For Undergraduates

1. General Geology. Yr.; 5 cr. Prerequisites: see above. Mr. Twenhofel.

2. Short Course in Geology. II; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Steidtmann.

9. Engineering Geology. I; 3 cr. A course in elementary geology for students in engineering, required of juniors in civil engineering. Mr. Mead.

11. Elementary Course in Mapping. II; 3 cr. Mr. Thwaites.

For Undergraduates and Graduates

122. Research. The amount of time allotted is subject to special arrangement.

125. Field Work for Advanced Students. II; 3 cr. One to three weeks in May are spent in geologic mapping of some selected area 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 also in connection with courses 4, 109, 110, 111, 112, 118 and 133.

134. Regional Geology. I; 3 cr. A study of world geology. (Given 1921–22 and in alternate years.) Mr. Twenhofel.

135. History of the Development of Geology. I; 2 cr. Prerequisite: Geology 1 or Geography 4. (Given 1921–22 and in alternate years.) Mr. Twenhofel.

PHYSICAL GEOLOGY

For Undergraduates and Graduates

111. Geology of Mineral Resources. II; 5 cr. (Given 1921–22 and alternate years.) Prerequisites: Chemistry 1, Geology 6 or 7, and Geology 1. Mr. Leith, Mr. Mead.

113. Economic Aspects of Geology. I; 5 cr. (Given 1921–22 and alternate years.) Followed by course 111. Prerequisite: Geology 1 or Geography 4. Mr. Leith.

114. Structural Geology. I; (a) Lectures, 2 cr. Mr. Leith; (b) Map interpretation and laboratory work, 3 cr. Mr. Mead. The two parts are closely related but may be taken independently.

115. Metamorphic Geology. Yr.; 3 cr. (Given 1920–21 and in alternate years.) Mr. Leith, Mr. Mead. Should be taken with course 141.

117. Principles of Pre-Cambrian Geology. II; 2 cr. (Given 1920–21 and alternate years.) 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 1921–22 and in alternate years.) Mr. Leith, Mr. Mead.

123. Oil Geology. II; 2 cr. Prerequisite: Geology 1. (Given 1921–22 and in alternate years.) Mr. Twenhofel.

128. Lake Superior Iron Ore Exploration. II; 2 cr. Prerequisites: Descriptive Geometry and course 114, 117 or 118. (Given 1921–22 and in alternate years.) Mr. Mead.

133. Sedimentation. II; 5 cr. Mr. Twenhofel.

141. Metamorphic Laboratory. Yr.; 2 cr. Quantitative study of metamorphism, to be taken with course 115. (Given 1920–21 and alternate years.) Mr. Mead.

STRATIGRAPHY AND PALEONTOLOGY

For Undergraduates and Graduates

112. Historical Geology and Stratigraphy. II; 5 cr. (Given 1920–21 and in alternate years.) Prerequisites: Geology 1 and 121. Mr. Twenhofel. See also course 134, Regional Geology.

121. Paleontology. I; 5 cr. (Given 1920–21 and in alternate years.) Mr. Twenhofel.

MINERALOGY AND PETROLOGY

For Undergraduates

6. General Mineralogy. Yr.; 5 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Winchell and Mr. Steidtmann.

7. Short Course in Mineralogy, II; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Steidtmann.

8. Short Course in Petrology. I; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Steidtmann.

For Undergraduates and Graduates

108. Petrology. Yr.; 5 cr. Prerequisite: course 6 or 7. Mr. Winchell.

119. Petrology of Lake Superior Rocks. Yr.; 3 cr. Prerequisite: course 108. (Given 1920–21 and in alternate years.) Mr. Winchell.

120. Advanced Mineralogy. Yr.; 2 to 4 cr. Prerequisite: course 6. Mr. Winchell.

124. Economic Mineralogy. II; 2 cr. Mr. Winchell.

129. Petrogeny. Yr.; 1 to 3 cr. Prerequisite: course 108. (Given 1921–22 and in alternate years.) Mr. Winchell.

138. Agricultural Mineralogy. II; 1 cr. Prerequisite: Chemistry 1 or equivalent. (Given 1921–22 and in alternate years.) Mr. Winchell.

GLACIAL GEOLOGY

For Undergraduates and Graduates

110. Glacial Geology. II; 3 cr. Prerequisites: Geology 1, 2, or 9 or Geography 4. Mr. Thwaites.

PHYSIOGRAPHY AND GEOGRAPHY

For Undergraduates

3. Laboratory Course in Geography. Yr.; 2 cr. Part of Geology 4. Miss Loft.

4. Physiography and Geography. Yr.; 5 cr. No prerequisites. Mr. Whitbeck and staff.

5C. Geography for Commerce Students. Yr.; 3 cr. Mr. Finch and staff.

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. (Given in 1920–21 and in alternate years.) Miss Loft.

104. Geography of Wisconsin. II; 2 cr. Mr. Blanchard.

105. Overseas Commerce. I; 3 cr. Prerequisite: Geography 4 or 5C. Mr. Finch.

106. Agricultural Geography. II; 3 cr. Mr. Finch.

107. Influence of Geography on American History. I; 3 cr. (Omitted in 1920–21.)

109. Advanced Physiography. II; 3 cr. Prerequisite: Geology 1 or 9, Geography 4 or 5C. Mr. Lobeck.

126. Maps for Geographic Teaching. II; 1 cr. (Not given in 1920–21.) Mr. Finch.

127. Advanced Economic Geography. I; 3 cr. For intending teachers and advanced students. Prerequisite: Geography 4 or 5C. (Given in 1920–21 and in alternate years.) Mr. Blanchard.

130. Physiography of the United States. Yr.; 3 or 4 cr. Prerequisite: Geology 1, 2, or 9, or Geography 4 or 5C. Mr. Lobeck.

131. Summer Field Course in Physiography and Geology. 4 to 6 cr. During August, 4 weeks. Limited to 20 students. Not given for less than 12 students. Cost, including living expenses and tuition, about $85. Mr. Blanchard.

132. Geographical Seminary. Yr.; 2 cr. Mr. Whitbeck and Mr. Finch.

137. The Graphic Presentation of Physiographic Material. I; 2 cr. (Given in 1920–21 and in alternate years.) Mr. Lobeck.

GERMAN

PROFESSORS HOHLFELD (CHAIRMAN), VOSS; ASSOCIATE PROFESSORS GOODNIGHT, MORGAN, ROEDDER; ASSISTANT PROFESSORS BRUNS, ERNST, HAERTEL*, STERLING; INSTRUCTOR HOLLANDER*; TEACHING FELLOWS, MOHME, SCHAFHEITLIN, WADEPUHL.

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

*On leave of absence, 1920–21.

required of students wishing to study German chiefly for its literature.

III. The literary courses are of very different degrees of advancement, those from 241 to 248 not being open to undergraduate students. The less advanced courses are divided into two groups designated A and B. Ordinarily students may not enter group B unless they have taken at least one course in group A, or its equivalent. Generally, about twelve credits in these two groups combined will be adequate preparation for the more advanced work in literature as well as for the more elementary courses in philology. Students intending to specialize in German literature are advised to do related work in English literature, in medieval and modern history, and in philosophy. They should also pursue, to a fair degree of advancement, the study of at least one other foreign language and literature, ancient or modern. Their attention is also called to the courses mentioned under Comparative Literature.

IV. The courses from 150 to 155, and from 263 to 270, are devoted to work in German philology. While most of these courses are intended for graduate students working for a higher degree in German, some of them are well suited to the needs of advanced undergraduates. This is especially true of courses 150, 151, and152, all of 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 or 112, 90a and 90b, 130 or 131, 150 and 151.

As to the maximum number of credits which students may elect in German, the following rules apply in accordance with the general statement under "electives." Students beginning their university work in German 1a, 1b or 2a may take up to forty-six credits, those entering 2b up to forty-three credits, those entering higher classes may not exceed forty credits.

*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.

Minor in German*

Students preparing to teach, with German as their minor, will be required to complete courses 10 or 112, 90a, and at least four credits in Group B, or 130 or 131.

ELEMENTARY COURSES

For Undergraduates

Mr. Morgan is in general charge of these courses.

1a. Beginners' 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.

ADVANCED PRACTICE COURSES

For Undergraduates

3Sc. Scientific German. Yr.; 2 cr. For students specializing in science. Prerequisite: course 2b or equivalent. Mr. Voss, Miss Sterling.

3C. Commercial German. Yr.; 2 cr. For students in the Course in Commerce. Prerequisite: course 2b or equivalent. (Omitted 1920–21.) Mr. Roedder.

10. Composition and Conversation. Yr.; 2 cr. Prerequisite: four credits in advance of course 2b. Mr. Roedder.

11. Journalistic German. Yr.; 1 cr. (2 hrs.) Prerequisite: course 2b or equivalent. (Omitted 1920–21.) Mr. Haertel.

16. Prose Reading (for graduates). Yr.; no credit. (2 hrs.) Practice course. Mr. Morgan.

40. Elementary Conversation. Yr.; 1 cr. (2 hrs.) Prerequisite: course 2b or equivalent. Mr. Voss.

41. Intermediate Conversation. Yr.; 1 cr. (2 hrs.) Prerequisite: four credits in advance of course 2b, or sufficient ability in speaking German. Mr. Hohlfeld.

90a. The Teaching of German. I; 2 cr. For seniors and graduates. Mr. Morgan.

90b. The Teaching of German. II; 2 cr. Phonetics. For seniors and graduates. Mr. Morgan.

*See footnote on p. 164.

For Undergraduates and Graduates

112. Advanced Practice in Speaking and Writing German. Yr.; 2 cr. For advanced students specializing in German. More advanced than course 10, though ordinarily students should take only one of the two courses. (Omitted 1920–21.) Mr. Bruns.

LECTURE COURSES

29. Survey of German Painting and Sculpture of the Nineteenth Century. II; 1 or 2 cr. (2 hrs.) (Omitted 1920–21.) Miss Sterling.

30. Germany and its Institutions. II; 1 or 2 cr. (2 hrs.) (Omitted 1920–21.) Mr. Haertel.

75. German Classics. Yr.; 2 cr. Mr. Hohlfield.

Courses 29, 30, 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, unless taken for two credits, with outside reading in German. They are not open to freshmen.

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 1919–20.)

20. Schiller. Yr.; 2 cr. Miss Sterling.

To make suitable four or five-hour courses, 15, 17, and 20 should be combined with 40 or 41.

Course 20 is given in English, 3, 15, and 17 partly in German.

GROUP B

These courses are open to students who have had at least four credits in advance of course 2b.

Not more than 12 credits may regularly be taken in this group for full credit.

Course 21 is given in English, the others largely in German.

21. Wagner's Music Dramas. I; 3 cr. **German Poetry.** II; 3 cr. (Omitted 1920–21.) Miss Sterling.

22. Heine. I; 3 cr. **Hebbel.** II; 3 cr. (Omitted 1920–21.) Mr. Bruns.

23. Goethe. Yr.; 2 cr. (Omitted 1920–21.) Mr. Voss.

25. Goethe's Prose. Yr.; 2 cr. (Given 1920-21.) Mr. Morgan.

26. Modern Fiction. Yr.; 3 cr. Keller, Storm, Meyer, Raabe. (Omitted 1920–21.) Mr. Goodnight.

27. Modern German Drama. Yr.; 2 cr. (Omitted 1920-21.) Mr Bruns.

100. Thesis Course. Yr.; 2 cr. (Omitted 1920–21.)

For Undergraduates and Graduates

130. Goethe's Faust. Yr.; 2 or 3 cr. (3 hrs.) Alternates with course 131. (Given 1920–21.) Mr. Hohlfeld.

131. Survey of German Literature. Yr.; 2 or 3 cr. (3 hrs.) Alternates with course 130. (Omitted 1920–21.) Mr. Hohlfeld.

134. Lyric Poetry of the Nineteenth Century. Yr.; 2 cr. Alternates with course 149. (Omitted 1920–21.) Mr. Bruns.

135. The Novel of the Nineteenth Century. Yr.; 2 cr. (Omitted 1920–21.) Mr. Goodnight.

136. Popular German Literature. Yr.; 2 cr. Alternates with course 137. (Omitted 1920–21.) Mr. Roedder.

137. Schiller. Yr.; 2 cr. Alternates with course 136. (Omitted 1920–21.) Mr. Roedder.

141CL. Principles and Practice of Translating. II; 1 or 2 cr. For students with advanced training in German, French, or Italian. (Omitted 1920–21.) Mr. Morgan.

149. The Romantic Movement in Germany. Yr.; 2 cr. Alternates with course 134. (Given 1920–21.) Mr. Bruns.

Course 141CL is given in English, the others in German.

For Graduates

247. Pro-seminary in German Literature. Yr.; 2 or 3 cr 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, 263–270.

For Undergraduates and Graduates

150. History of the German Language. I; 2 cr. Mr. Voss.

151. Elementary Middle High German. II; 2 cr. Mr. Voss.

152. Advanced Middle High German. Yr.; 2 cr. Mr. Voss. (Omitted 1920–21.)

154. Gothic. I; 2 cr. (Given 1920–21.) Mr. Roedder.

155. Old High German. I; 2 cr. (Given 1919–20.) Mr. Roedder.

159CL. Germanic Mythology and Heroic Legends. II; 2 cr. (Given 1919–20.) Mr. Roedder.

For phonetics see above, course 90b.

Courses 150 and 151 are given partly in German, the others in German.

For Graduates

263. Pre-Germanic Grammar. II; 2 cr. (Omitted 1920–21.) Mr. Roedder.

264. Modern and Middle Low German. Yr.; 1 cr. Alternates with course 265. (Given 1920–21.) Mr. Voss.

265. Language and Literature of the Sixteenth Century. Yr.; 1 cr. Alternates with course 264. (Omitted 1920–21.) Mr. Voss.

269. Philological Proseminary. II; 2 cr. Mr. Roedder.

270. Philological Seminary. Yr.; 2 cr. The fields of investigation form a cycle of three years. Mr. Voss.

Courses 263–270 are given in German.

HISTORY

Professors Fish, Paxson (chairman), Root, Rostovtzeff, Sellery; Associate Professors Byrne, Chase; Assistant Professors Edwards, Stephenson; Instructors Knaplund, Yewdale; Assistants Andressohn, Beyer, Compton, Ferrell, Kilness, Larsen, Mendenhall, Mueller, Newton, Phillips, Prescott, Ragatz*, Riegel, Schmidt, Smith, Thomas.

President Adams Fellows, Mr. Lemm-Marugg, Mr. Nash.

University Fellows, Mr. Johannesen, Mr. Sellers.

Scholars, Mr. Brown, Miss Carlson.

*Second semester appointment.

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 166 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 114), the requirement may be satisfied by a continuous three-credit course extending through two semesters.

The Major in History

Twenty-six credits in history, in addition to the thesis, are required for an undergraduate major in history and must include: (a) One introductory course in European and one in American history, and (b) At least twelve credits in advanced courses.

The Master's Degree in History

Candidates for the master's degree in history who have completed an undergraduate major in history in this University, or its equivalent elsewhere, are required, in their year of work for the degree, to do one-half their work (e. g., a three hour lecture course and a seminary, both throughout the year), in advanced history, and to write an acceptable thesis. They are permitted to complete their

programs from advanced courses in history or related subjects. Other candidates for the master's degree in history will be required to concentrate their work more fully, or exclusively, upon history. Every candidate for this degree is expected to have had, as undergraduate or graduate, at least one advanced course in European and one in American history.

The 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 seven 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.

At the preliminary examination, the candidate may, with the approval of the professors concerned, indicate fields included within his major and minor subjects, but not including the thesis or the field in which it falls, and may take a final examination in these fields.

The final examination will include the thesis and the field in which it falls 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 subject, 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.; 3 or 2 cr. Mr. Byrne, Mr. Chase and staff.

5. English History. Yr.; 3 or 2 cr. Students who have had both semesters of History 1 may enter this course at the beginning of the second semester. Not open to students in the Course in Commerce. Mr. Root and staff.

5a. First Semester English History. II; 3 or 2 cr. Identical with the first semester of History 5. Mr. Stephenson.

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, Mrs. Mendenhall, and staff.

INTRODUCTORY COURSES NOT OPEN TO FRESHMEN

2. Modern European History. Yr.; 3 cr. May be elected by semesters; no prerequisites. Mr. Yewdale.

4. History of the United States. Yr.; 3 cr. May be elected by semesters; no prerequisites. Seniors may elect for two or three credits. Mr. Fish.

For Undergraduates and Graduates

90. The Teaching of History in the High School. I or II; 2 cr. Required of seniors for the teachers major; elective for the teachers minor. Mr. Chase.

91. Supplementary Reading for Teachers of History. II; 2 cr. Required for the teachers minor; elective for the teachers major. Mr. Chase.

ANCIENT AND MEDIEVAL HISTORY

History of Ancient and Medieval Education. I; 3 cr. (Given as Education 102—does not count toward history major). Mr. Chase.

123. The Roman Empire in the East. II; 2 cr. (Omitted (1920–21.) Mr. Rostovtzeff.

125. Greek Civilization and its Expansion. I; 2 cr. (Omitted 1920–21.) Mr. Rostovtzeff.

127. Hellenistic-Roman Civilization. II; 2 cr. (Omitted 1920–21.) Mr. Rostovtzeff.

129. Greek and Roman Political Institutions. Yr.; 2 cr. (Omitted 1920–21.) Mr. Rostovtzeff.

131. Medieval Civilization. II; 3 cr. Mr. Sellery.

133. Medieval Commerce. I; 2 cr. (Omitted 1920–21.) Mr. Byrne.

134. The Renaissance. II; 3 cr. (Omitted 1920–21.) Mr. Sellery.

141. English Constitutional History. Yr.; 3 cr. Mr. Byrne.

MODERN HISTORY

History of Modern Education. II; 3 cr. (Given as Education 101—does not count toward history major). Mr. Chase.

136. The Old Regime in Europe. Yr.; 2 cr. Mr. Stephenson.

137. Europe during the World War. I; 2 cr. Mr. Yewdale.

138. The French Revolution and the Napoleonic Empire, 1789–1815. II; 2 cr. (Omitted 1920–21.) Mr. Yewdale.

139. Nineteenth Century Europe. Yr.; 2 cr. May be elected by semesters. Mr. Yewdale.

140. The Reformation. I; 3 cr. Mr. Sellery.

143. The British Empire since 1815. Yr.; 2 cr. Mr. Root.

144. Development of Modern Russia. Yr.; 2 cr. Mr. Rostovtzeff.

146. History of Central Europe. Yr.; 2 cr. (Omitted 1920–21.) Mr. Byrne.

147. Modern Britain, 1815-1920. Yr.; 3 cr. Mr. Knaplund.

166. Pro-seminary in Modern European History. Yr.; 2 cr. Open to graduates and to seniors with adequate preparation. Mr. Yewdale.

AMERICAN HISTORY

History of American Education. I; 3 cr. (Given as Education 103—does not count toward history major). (Omitted 1920–21.) Mr. Chase.

111. History of the West, 1763-1890. Yr.; 3 or 2 cr. May be elected by semesters. Mr. Paxson.

112. Representative Men. I; 3 cr. (Omitted 1920–21.) Mr. Fish.

113. History of New England. II; 2 cr. (Omitted 1920–21.) Mr. Fish.

115. Diplomatic History of the United States. Yr.; 2 cr. (Omitted 1920–21.) Mr. Fish.

116. English Colonies in America, 1583-1783. Yr.; 3 cr. May be elected by semesters. (Omitted 1920–21.) Mr. Root.

117. Constitutional History of the United States, 1750-1850. Yr.; 2 cr. May be elected by semesters. (Omitted 1920–21.) Mr. Root.

118. Civil War and Reconstruction. I; 3 cr. Mr. Fish.

119. French and Spanish Colonies in America, 1492-1823. Yr.; 2 cr. (Omitted 1920–21.) Mr. Root.

120. American Foreign Policy, 1783–1919. II; 3 cr. Mr. Fish.

121. Studies in Colonial History. Yr.; 2 cr. (Omitted 1920–21.) Mr. Root.

124. Recent History of the United States, 1873-1921. Yr.; 2 cr. May be elected by semesters. Mr. Paxson.

128. The United States in the Great War (1917-19.) Yr.; 3 cr. (Omitted 1920–21.) Mr. Paxson.

For Graduates

252. Historical Method. II; 2 cr. Graduate students in their first year are expected to take this course. Mr. Byrne, Mr. Fish, Mr. Rostovtzeff.

254. Seminary in Ancient History. Yr.; 2 cr. A reading knowledge of Greek and Latin is required. Mr. Rostovtzeff.

255. Seminary in Latin and Ancient History. Yr.; 2 cr. See Latin 233. (Omitted 1920–21.) Mr. Slaughter, Mr. Rostovtzeff.

256. Seminary in Medieval History. Yr.; 2 cr. A knowledge of Latin, French, and German is required. (Omitted 1920–21.) Mr. Sellery.

257. Seminary in Medieval History. Yr.; 2 cr. A reading knowledge of Latin, French and German is required. Mr. Byrne.

259. Seminary in History of the British Empire. Yr.; 2 cr. (Omitted first semester 1920–21.) 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

Associate Professors Laird (chairman), Roedder.

For Undergraduates and Graduates

101. Introduction to Comparative Philology. I; 2 cr. Mr. Laird.

103. Elementary Sanskrit. Yr; 3 cr. Mr. Laird.

104. Gothic. I; 2 cr. Mr. Roedder.

220. Greek Grammar. I; 3 cr. Sounds and forms. Mr. Laird.

225. Latin Grammar. I; 3 cr. Sounds and forms. (Given in 1920–21.) Mr. Laird.

230. Advanced Sanskrit. Yr.; 1 cr. Mr. Laird.

JOURNALISM

Professor Bleyer (chairman); Associate Professor Hyde; Instructors Johnson and Boughner.

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. 226), and of students in the Colleges of Letters and Science, Agriculture, and Engineering who desire training in journalistic writing.

The department has a large laboratory equipped like the city room of a newspaper office, with typewriters, reference books, maps, a

"morgue," and similar material. Adjoining this is a reading room with current files of representative American newspapers and journalistic periodicals, and a lecture room equipped with a lantern for projecting slides and opaque objects. 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, libel, and similar topics. The Department of Manual Arts has special classes in drawing for students of journalism and advertising, which include cartooning, illustrating and sketching. A course in French journalism is 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, "Course in Journalism, 1921–22," which may be had upon application to the Director of the Course in Journalism.

Major in Journalism

For an undergraduate major in journalism are required, in addition to a thesis, not less than 24 credits, in which may be included, besides courses in the Department of Journalism, the Law of the Press (Journalism 25), Retail Advertising (Economics 15), French Journalism (French 18), and Agricultural Journalism. The courses in journalism required for an undergraduate major are Newspaper Reporting (Journalism 2), 6 credits; Editing (Journalism 3), 6 credits; History and Principles of Journalism (Journalism 110), 6 credits; and either Editorial Writing (Journalism 104), 4 credits, or the Writing of Special Feature Articles (Journalism 105), 4 credits.

Graduate Study

Provision is made for directing research of graduate students in historical and contemporary phases of newspapers and magazines,

as well as for giving special training in any kind of journalistic work. The Library of the State Historical Society, which occupies the same building as the University Library, contains one of the largest collections of bound files of American newspapers and magazines in this country and furnishes unusual opportunities for an historical study of English and American journalism from earliest times to the present. The master's degree in journalism is granted to graduate students who are preparing to teach journalism. University graduate scholarships are open annually to students in journalism.

For Undergraduates

1. General Survey of Journalism. Yr.; no cr. 1 hr. a week. Required of freshmen in the Course in Journalism. Mr. Bleyer.

2. Newspaper Reporting and Correspondence. Yr.; 3 cr. Primarily for sophomores. Mr. Hyde and Mrs. Boughner.

3. Newspaper Editing. Yr.; 3 cr. Prerequisite: Journalism 2 or equivalent practical experience. Mr. Johnson.

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.

15. Retail Advertising (Economics 15). I; 2 cr. For seniors. Mr. Gardner.

16. Advertising Campaigns. (Economics 16.) II; 2 cr. For seniors who are specializing in advertising. Mr. Gardner.

18. French Journalism (French 18.) Yr.; 2 cr., 1 in French, 1 in Journalism. Prerequisites: French 1a and 1b or equivalent. Mr. Ernst.

25. The Law of the Press. II; 2 cr. Mr. Russell Johnson.

50-51. Freehand Drawing and Illustration (Manual Arts 50 or 51.) I or II; 3 cr. Mr. Varnum.

For Undergraduates and Graduates

104. Editorial Writing. Yr.; 2 cr. Primarily for seniors and graduates. Mr. Bleyer.

105. The Writing of Special Feature Articles. Yr.; 2 cr. Not open to sophomores. Mr. Bleyer and Mrs. Boughner.

109a. The Writing of Magazine Articles. I; 2 cr. Journalism 105 is a prerequisite. Mr. Bleyer.

109b. Women's Departments in Newspapers and Magazines. II; 2 cr. For juniors and seniors. Mrs. Boughner.

110. History and Principles of Journalism. Yr.; 3 cr. Open only to seniors and graduates. Required for undergraduate and graduate major in journalism. Mr. Bleyer.

AGRICULTURAL JOURNALISM

1. Agricultural Journalism. I; 2 cr. Mr. Sumner.
4. Agricultural Advertising. II; 2 cr. Mr. Sumner.

MANUAL ARTS

PROFESSORS GRIFFITH (CHAIRMAN), PHILLIPS; ASSOCIATE PROFESSOR VARNUM; ASSISTANT PROFESSORS DABNEY, GREENE; INSTRUCTORS WILSON, COLT; ASSISTANT HUGHES.

I. MANUAL ARTS

For Undergraduates

1. Elements of Mechanical Drawing. I or II; 3 cr. Mr. Phillips, Mr. Orth.

2. Elements of Mechanical Drawing. I or II; 3 cr. Prerequisite: course 1. Mr. Phillips, Mr. Orth.

***4. Elementary Bench Woodwork.** I; 3 cr. Mr. ———

5. Furniture and Cabinet Design and Construction. II; 3 cr. Prerequisite: course 4 or equivalent. Mr. ———

***6. Wood Turning.** I; 2 or 3 cr. Mr. ———

***7. Foundry Work.** I or II; 2 or 3 cr. Mr. Payton.

***8. Forge Work.** II; 2 or 3 cr. Mr. Schumann.

***9. Machine Shop Work.** I or II; 2 or 3 cr. Mr. Dabney and staff.

***11. Shop Planning and Installation.** I; 3 cr. Mr. Greene.

***16. Elementary Pattern Making.** I or II; 2 or 3 cr. Prerequisites: courses 1 and 4. Mr ————.

***17. Advanced Pattern Making.** I or II; 2 or 3 cr. Prerequisites: course 16 and registration in course 7. Mr. ———.

***18. Building Plans and Specifications.** II; 3 cr. Mr. Greene.

***20. Sheet Metal.** I; 3 cr. Mr.————

***21. Electrical Construction.** II; 3 cr. Mr.———.

***24. Carpentry.** I; 3 cr. Mr. Griffith.

*In the College of Letters and Science this course may not be counted toward graduation except by students in the School of Education.

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. Model fee $1.50. Open to freshmen. Prerequisite: course 50 or equivalent. Miss Wilson, Mr. Colt.

54. Modeling. I; 3 cr. Miss Wilson. (Not given 1921–22.)

56. Drawing and Painting (applied). Yr.; 2 cr. Prerequisites: credit in courses 50 and 51. Mr. Colt.

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. Prerequisite: advanced standing. Mr. Colt.

70. Applied Design in Metal (copper, brass, silver, gold, iron). Yr.; 3 cr. Desirable prerequisites: registration or credit in course 62 or equivalent training. Mr. Varnum.

71. Applied Design in Clay (pottery). Yr.; 3 cr. Desirable prerequisites: registration or credit in course 62 or equivalent training. Miss Wilson.

72. Applied Design in Wood (carving, inlay, finishing). II; 3 cr. Desirable prerequisites: registration or credit in course 62 or equivalent training. Mr. ———.

***80. Elementary Handwork.** II; 2 or 3 cr. For those interested as teachers. Prerequisite: credit in course 90 desirable. (Not given 1921–22.) Miss Wilson.

For Undergraduates and Graduates

130. Experimental Design. I; 2 or 3 cr. Training of imagination with emphasis on stimulating power of originality in design. Application to commercial practice and public school methods. Prerequisites: courses 51 and 62. Mr. Varnum. (Not given 1921–22.)

131. Advanced Design. II; 2 or 3 cr. Original composition in the arts applied to civic, school or home use. Prerequisites: courses 54 or 56, 62, 70 or 71. Mr. Varnum, Mr. Colt.

132. Art Structure. I; 2 or 3 cr. Advanced technical training for vocational or teacher training ends. Prerequisites: courses 54 or 56, 62. Mr. Colt. (Not given 1921–22.)

*In the College of Letters and Science this course may not be counted toward graduation except by students in the School of Education.

III. INDUSTRIAL EDUCATION AND MANAGEMENT

***90. Psychology of Teaching Arts and Industrial Subjects.** I; 2 cr. Prerequisite: junior standing. Mr. Griffith.

***100. Senior Thesis Course.** Yr.; 2 cr. Mr. Griffith, Mr. Varnum.

For Undergraduates and Graduates

***111. Organization and Administration.** Yr.; 2 cr. Prerequisite: junior standing. Mr. Griffith, Mr. Varnum, and others.

***112. The Teaching and Supervision of Special Subjects.** II; 2 or 3 cr. Prerequisite: senior standing. Mr. Griffith, Mr. Varnum and others.

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 and Curricula Construction.** I; 2 cr. Prerequisite: junior standing. Mr. Griffith.

120. Job Analysis. I; 2 cr. Prerequisite: junior standing. Mr. Griffith.

121. Foremanship Training Analysis. II; 2 cr. Prerequisite: junior standing. Mr. Griffith.

***128. Teaching Related Technical Subjects.** I; 2 cr. Analysis and classification of mathematical, physical, chemical, drafting, hygiene and health subject matter such as may be used in practical application in trade training; arrangement into an instructional order. Prerequisite: junior standing, and basic courses in one or more of the above. Mr. Griffith.

***129. The Continuation School.** I; 2 cr. Organization and teaching technic of the part-time or continuation school. Prerequisite: junior standing. Mr. Griffith.

For Graduates

***225. Seminary.** Yr.; 1 cr. Mr. Griffith, Mr. Varnum.

*In the College of Letters and Science this course may not be counted toward graduation except by students in the School of Education.

MATHEMATICS

PROFESSORS SKINNER, SLICHTER (CHAIRMAN), VAN VLECK; ASSOCIATE PROFESSORS DOWLING, MARCH; ASSISTANT PROFESSORS DRESDEN, HART, LANE, WEAVER; INSTRUCTORS ALLEN, BABCOCK, CEDERBERG, H. T. DAVIS, J. E. DAVIS, FELTGES, INGRAHAM, RECHARD, SCOTT, SMITH, WOOD; ASSISTANTS HAYDEN, LINDNER, MCLENEGAN, MILLER, PLAPP, SPERLING.

In this department, courses 1 to 8 are planned to give a working knowledge of elementary mathematics. Courses 1 and 7 are required of students in the Course in Commerce, courses 51 to 55 are required of students in Engineering, and course 71 is required of students in Agriculture.

Students who elect the minimum amount of mathematics in fulfillment of requirement "C" (see requirement for degree of bachelor of arts), may choose six hours from any of courses 1 to 8.

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 requirements for an undergraduate major in mathematics are a thesis and a minimum of 20 credits, consisting of courses 5, 6, 112 or 113, and other courses numbered above 100.

Students entering the junior class with advanced standing from other institutions and desiring to complete an undergraduate major in mathematics in four semesters should previously have completed the equivalent of course 5. The requirements for mathematics as a major or minor subject in the School of Education are given on page 247.

For Undergraduates, College of Letters and Science

1. Algebra. I or II; 3 cr. For students presenting one unit of algebra for entrance. Prerequisite to all other courses except 2 and 8. Mr. Skinner and staff.

2. Trigonometry. I or II; 3 cr. Prerequisite to all other courses except 1, 7, 8 and 24. Mr. Skinner and staff.

3. Analytic Geometry. I or II; 3 cr. Recommended to students presenting one and one-half units of algebra for admission and who have taken or are taking course 2. Miss Allen, Mr. Dresden, Mr. Van Vleck.

5. Calculus. Yr.; 3 cr. Begins each semester. Students who intend to specialize in mathematics or who desire calculus for applications in science are advised to take course 5 in the sophomore year. Course 3 must be taken simultaneously by students who have not had analytic geometry. Mr. Dowling, Mr. Dresden, Mr. Skinner.

6. Determinants and Analytic Geometry of Three Dimensions. I; 3 cr. Prerequisite: course 3. Mr. Dresden.

7. Commercial Algebra. I or II; 3 cr. Required of students in the Course in Commerce. Prerequisite: course 1, or its equivalent. Mr. Skinner and staff.

8. Solid Geometry. I; 3 cr. Mr. Rechard.

24. Theory of Life Insurance. Yr.; 2 cr. Prerequisite: course 7 or its equivalent. Mr. Dowling.

90a. The Teaching of Mathematics. I or II; 2 cr. Open to seniors who are preparing to teach mathematics either as major or minor subject. Mr. Hart.

90b. The Content of Secondary Mathematics. II; 2 cr. Admission to course restricted to students enrolled in the School of Education. Mr. Hart.

100. Thesis Course. 2 cr. Mr. Dowling, Mr. Van Vleck.

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. Lane, 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. Lane, Mr. March, Mr. Weaver, and staff.

54. Differential and Integral Calculus. I or II; 4 cr. For all courses. Required of all sophomores in Engineering. Mr. Lane, Mr. March, Mr. Weaver, and staff.

55. Calculus. I or II; 4 cr. Continuation of 54; for all courses. Required of sophomores in Engineering. Mr. Lane, Mr. March, Mr. Weaver, and staff.

110. Higher Mathematics. Yr.; 3 cr. Elective for juniors, seniors, and graduate students. Mr. Weaver.

For Undergraduates, College of Agriculture

71. Mathematics for Agricultural Students. I or II; 5 cr. Mr. Babcock and staff.

For Undergraduates and Graduates

Course 5 is prerequisite to all courses in this group except 115 and 125.

111. Advanced Calculus. I; 3 cr. Mr. Skinner.

112. Differential Equations. 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. (Omitted 1920–21.)

115. Projective Geometry. I; 3 cr. 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 and Introduction to Higher Algebra. II; 3 cr. Mr. Dresden.

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. (Omitted 1920–21.) Mr. Van Vleck.

221. Theory of Functions of a Real Variable. Yr.; 3 cr. In alternate years. (Omitted 1921–22.) Mr. Van Vleck.

241. Elliptic Functions. Yr.; 2 cr. In alternate years. (Omitted 1920–21.) Mr. Dowling.

243. Modern Theory of Differential Equations. Yr.; 3 cr. (Omitted 1920–21.) Mr. Van Vleck.

244. Higher Geometry. Yr.; 2 cr. In alternate years. (Omitted 1920–21.) Mr. Dowling.

246. Finite Groups. Yr.; 3 cr. Mr. Skinner.

250. Theory of Elasticity. Yr.; 2 cr. Mr. Slichter.

251. Theory of Potential. Yr.; 2 cr. (Omitted 1920–21.) Mr. Slichter.

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. Introductory course. Mr. Van Vleck.

270. The Mathematical Bases of the Theory of Relativity. II; 3 cr. In alternate years. Mr. Dowling.

Mathematical Club—For instructors, graduates, and seniors making mathematics their major. Twice monthly. The object of the club will be to follow important recent developments in mathematics.

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 the earth. Courses 103 and 106 are planned to prepare students of agriculture, commerce, engineering, journalism, medicine, physical geography, etc., for the treatment of meteorological and climatological questions of importance in their professions, and to fit students for the investigation of special problems in meteorology. Further opportunity to pursue original research under supervision will be provided if desired.

For Undergraduates

1. Weather and Climate. I; 3 cr. Mr. Miller.

2. Climate and Man. II; 3 cr. Mr. Miller.

For Undergraduates and Graduates

103. Meteorology. I; 3 cr. Prerequisites: Mathematics 111 and 112 and Physics 2, or equivalents. Mr. Miller.

106. Climatology. II; 3 cr. Prerequisites: Geology 109 and Economics 130a, or equivalents. Mr. Miller.

MUSIC

Emeritus Professor Parker; Professors Mills (chairman), Dykema; Associate Professor Townsend; Assistant Professors Geltch, Morphy, Swinney; Instructors Beecher, Eastman, Gunderson, Iltis, Jones, Moutray, Nash, Willman.

The courses in music are open as electives to all students, except freshmen, in any department of the University who show sufficient musical ability to pursue them with profit, and carry credit toward graduation as do electives in other departments of the University with the following exceptions:

Courses 71 and 75 may only be taken without credit.

Advanced instruction in applied music may be taken as elective only by juniors and seniors of the University upon consultation with the Director of the School of Music after meeting with the examination committee of the School. Credit, not to exceed a total of ten semester hours, is given on the same basis as for other collegiate studies.

THEORY AND PRACTICE

For Undergraduates

1. Harmony. Yr.; 3 cr. Miss Eastman.

11. Harmony. Yr.; 3 cr. Prerequisite: course 1. Mr. Mills, Miss Eastman.

21. Counterpoint. Yr.; 2 cr. Prerequisite: course 11. Mr. Mills, Miss Eastman.

31. History. Yr.; 2 cr. Mr. Mills, Miss Eastman.

36. History of Piano Music and Its Technic. Yr.; 2 cr. Mr. Townsend.

41. Methods and Practice. Yr.; 1, 2 or 4 cr. Public School Music, first year. Mr. Dykema, Miss Willman.

45. Public School Music. Yr.; 2 cr. For grade and high school teachers. (Omitted 1920–21.)

51. Methods and Practice. Yr.; 2 or 4 cr. Public School Music, second year. Mr. Dykema.

55. Methods and Practice. Cr. to be arranged. Public School Music, third year. Mr. Dykema.

61. Appreciation of Music. (Onitted 1920–21.)

65. Appreciation of Music. Yr.; 1 cr. Open to student body. Mr. Mills.

71. Sight Singing and Ear Training. Yr.; 1 cr. Miss Willman.

75. Sight Signing and Ear Training. Second year. Yr.; 1 cr. Miss Nash.

76. Orchestra. Yr.; 1 cr. Prerequisite: the ability to play some instrument. Mr. Morphy.

77. Choral Music. Yr.; ½ cr. 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. Townsend, Miss Gunderson, Mr. Iltis, Miss Beecher.

82. Voice. Yr.; cr. to be arranged. Mr. Swinney, Miss Jones, Miss Moutray.

83. String and Orchestral Instruments. Yr.; cr. to be arranged. Mr. Geltch, Mr. Morphy.

84. Organ. Yr.; cr. to be arranged. Mr. Mills, Miss Eastman.

85. Ensemble. Yr.; 2 cr. Miss Beecher.

86. Ensemble. Yr.; 2 cr. Miss Beecher.

87. 1, 2, 3, 4, Second Subject in Applied Music. Yr.; 1 cr.

88. 1, 2, 3, 4, Second Subject in Applied Music. Yr.; 1 cr.

89. Elements of Practical Instrumentation. Yr.; 1 cr. Mr. Morphy.

90. Instrumentation. I or II; 2 cr. A continuation and development of course 89. Mr. Morphy.

100. Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

102. Harmony. Yr.; cr. to be arranged. Prerequisite: course 11. Mr. Mills.

112. Counterpoint. Yr.; cr. to be arranged. Prerequisite: course 21. (Not given 1920–21.) Mr. Mills.

***122. Double Counterpoint, Canon and Fugue.** Yr.; 2 cr. Mr. Mills.

***152. Instrumentation.** Yr.; 2 cr. Mr. Mills and Mr. Morphy.

***162. Composition.** Yr.; 2 cr. Small forms, etc. Mr. Mills.

For Graduates

***211. Modern Orchestration.** Yr.; hours to be arranged. Prerequisite: course 11. Mr. Mills.

***265. Free Composition.** Yr.; hours to be arranged. Prerequisite: course 162. Mr. Mills.

*Alternate years.

PATHOLOGY AND MEDICAL BACTERIOLOGY

PROFESSORS BUNTING (CHAIRMAN), CLARK; INSTRUCTORS HUSTON, MURPHY, RAUBE, ZELLMER; STUDENT ASSISTANTS LINGENFELTER, VICKERS.

For full description of courses in pathology, see announcement under Medical School.

For Undergraduates and Graduates

101. General and Special Pathology. I; 5 cr.; II; 2 cr. The work of the second semester is a continuation of that of the first semester.

102. Medical Bacteriology. I; 5 cr.

103. Experimental Pathology. II; 4 cr.

104. Immunity. II; 4 cr. Prerequisite: course 102.

107. Sanitary Bacteriology. II; 3 cr. Given in conjunction with Hygiene 126.

204. Advanced Pathology.

205. Journal Club. Yr.; 1 cr.

206. Advanced Bacteriology.

PHARMACOLOGY AND TOXICOLOGY

Professor Loevenhart (chairman); Instructor Seybold, Instructor Gorder, Instructor Umbreit.

For full description of courses in pharmacology and toxicology, see announcement under Medical School.

101. General Toxicology. II; 1 cr. Lectures. Mr. Loevenhart.

102. General Toxicology. II; 1 cr. Laboratory. Mr. Loevenhart.

104. General Pharmacology. I; 3 cr. Lectures. Mr. Loevenhart, Mr. Seybold, Mr. Gorder, Miss Umbreit.

105. General Pharmacology. I; 2 cr. Laboratory. Mr. Loevenhart, Mr. Seybold, Mr. Gorder, Miss Umbreit.

108. Advanced Work. Mr. Loevenhart.

112. Independent Investigation. Mr. Loevenhart.

116. Journal Club. Yr.

PHARMACY

Professor Kremers (chairman); Assistant Professor Langenhan; Instructor Wakeman; Assistants Conney, Johnson, Heidbredu.

Fellows, Miss Whelan, Mr. Hixon.

Scholar, Miss Winkelblech.

For Undergraduates

1. Pharmaceutical Technique. Yr.; 3 cr. Miss Wakeman.

20. Elementary Prescription Practice. I; 3 cr. Mr. Langenhan, Mr. Johnson.

22. Elementary Prescription Practice. I or II; 1 cr. For premedical students. Mr. Langenhan, Mr. Johnson.

30. Pharmaceutical Technology. II; 4 cr. Mr. Langenhan.

40. Drug Store Practice. Yr.; 1 cr. Alternates with Pharmacy 50. Mr. Kremers and special lecturers.

50. History of Pharmacy. Yr.; 1 cr. Alternates with Pharmacy 40. Mr. Kremers.

Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

121. Advanced Prescription Practice. I; 2 cr. Mr. Langenhan.

130. Advanced Pharmaceutical Technology. Cr. to be arranged. Mr. Langenhan.

For Graduates

230. Advanced Pharmaceutical Technology. To be arranged. Mr. Kremers.

250. Conference of Research Workers. 1 or 2 hours. Mr. Kremers.

Graduate Thesis. To be arranged. Mr. Kremers.

PHARMACOGNOSY

ASSISTANT PROFESSOR RICHTMANN.

10. Sources and Collection of Crude Vegetable Drugs. I; 1 cr. Mr. Richtmann.

20. Pharmacognosy. Yr.; 2 cr. Mr. Richtmann.

20a. Pharmacognosy. I or II. Credit to be arranged. Mr. Richtmann.

30. Cultivation of Medicinal Plants. Yr.; 2 cr. Mr. Richtmann.

Thesis. Yr.; 2 cr. Mr. Richtmann.

PHILOSOPHY AND PSYCHOLOGY

Professors Jastrow, McGilvary (chairman), Sharp; Associate Professor Otto; Assistant Professor Hull; Instructors Culler, Mueller, Robinson, Thayer; Assistant Anderson; Research Assistant Miss Conrad.

Fellow, Mr. Howard O. Eaton.

The student is at liberty to begin his work in philosophy with any of the courses designated as for undergraduates. But beginners who desire to take three hours of work throughout the year in the department, whether they wish to continue with the subject or not, will ordinarily find it most profitable to select course 1 or 31 in the first semester, and either 1, 11, 21, 25 or 41 in the second semester.

The requirements for an undergraduate major in philosophy are a minimum of twenty-four credits including the thesis. Of these, at least twelve credits must be obtained in the courses for undergraduates and graduates.

For Undergraduates

1. Introductory Psychology. I or II; 3 cr.
Section 1. I. Mr. Jastrow.
Section 2. I. Mr. Sharp and staff.
Section 3. I. Mr. Sharp and staff.
Section 4. II. Mr. Culler and staff.

Section 2, 3 or 4 satisfies requirement in psychology for the University Teachers Certificate.

10. Experimental Psychology for Premedical Students. II; 3 cr. Mr. Hull.

11. Elementary Logic. I or II; 3 cr. Mr. Otto, Mr. Robinson, Mr. Thayer.

19. Psychological Principles of Advertising. II; 2 cr. Mr. Culler.

21. Introduction to Philosophy. I or II; 3 cr. Mr. McGilvary.

25. The Relation of Man to Nature. II; 3 cr. Open to juniors, seniors and graduate students. Sophomores will be admitted only upon bringing to the instructor in charge statements from their advisers that their grade points are double their credits. Mr. Otto, Mr. Thayer.

31. History of Ancient and Medieval Philosophy. I; 3 cr. Mr. Robinson.

32. History of Modern Philosophy. II; 3 cr. Mr. Robinson. Prerequisite: Course 31, 21, 25, or an equivalent.

41. Ethics. II; 3 cr. Introductory course. Mr. Sharp.

42. Political Ethics. II; 2 cr. Mr. Sharp.

43. Business Ethics. I; 2 cr. Mr. Sharp.

Courses 42 and 43 may be taken independently of one another. For neither course is 41 a prerequisite.

49. Moral Education. II; 2 cr. (Omitted 1921–22.) Mr. Sharp.

51. Aesthetics. I; 2 cr. Mr. Jastrow.

For Undergraduates and Graduates

102. Foundations of Applied Psychology. II; 2 cr. Mr. Jastrow.

103. Experimental Psychology. Part I. I; 3 cr. Mr. Hull.

104. Experimental Psychology. Part II. II; 3 cr. Mr. Hull.

Either course 103 or 104 may be taken in advance of the other or separately. Course 1 or its equivalent is a desirable prerequisite for courses 103, 104, 106, 107, 108.

105. Research in Psychology. Cr. to be arranged. Mr. Jastrow, Mr. Hull.

106. Comparative Psychology of Behavior. II; 2 cr. Mr. Jastrow.

107. Abnormal Psychology. II; 3 cr. Mr. Jastrow.

108. Psychology of the Emotions. I; 2 cr. Mr. Jastrow.

115. Vocational Psychology. I; 3 cr. Prerequisites: either 103 or 104. Seniors or graduate students who have had Economics 130a, will be admitted provided they take 103 simultaneously. Mr. Hull.

120. Human Traits. II; 3 cr. Mr. Jastrow.

134. Contemporary Philosophy. Yr.; 3 cr. Prerequisite: courses 21, 25, 31, or 32. Mr. McGilvary.

135. Descartes, Spinoza and Leibniz. II; 3 cr. (Omitted 1920–21.) Prerequisite: courses 21, 25, 31 or 32.

136. Locke, Berkeley, Hume. I; 3 cr. Prerequisite: courses 21, 25, 31, or 32. Mr. Thayer.

137. Kant. II; 3 cr. *The Critique of Pure Reason.* Prerequisite: courses 21, 25, 31, or 32. Mr. Thayer.

139. American Philosophy. I; 3 cr. With special reference to pragmatism. Prerequisite: 3 cr. in philosophy. Mr. Otto.

For Graduates

210. Psychological Seminary. Mr. Jastrow.

213. Logical Seminary. Mr. Otto.

240. Metaphysical Seminary. Mr. McGilvary.
247. Ethical Seminary. Mr. Sharp.

PHYSICAL EDUCATION

PROFESSORS JONES (CHAIRMAN), MEANWELL; ASSOCIATE PROFESSORS ELSOM, LOWMAN (DIRECTOR OF PROFESSIONAL COURSE), TRILLING (DIRECTOR OF WOMEN'S GYMNASIUM); ASSISTANT PROFESSORS H'DOUBLER, LIPPITT, RICHARDS, SCHLATTER; INSTRUCTORS BURKE, BROWNELL, ELMORE, KLEIN, LINDEN, MOSSCROP, QUICK, STEINAUER, VAIL, WALLRICH, WILLIAMS, WESSON; ASSISTANTS BERG, HITCHCOCK, SPENGLER, TRUMPF.

See School of Education, p. 261, and Department of Physical Education, p. 400.

Courses of Instruction—Professional Students

Courses marked *(courses 16, 55, 59 and 80) are the only courses in physical education open for academic credit to students who are not registered in the Physical Education Course, School of Education.

1. Developmental Exercises. 1 or 2 cr. Prescribed for all freshmen and such sophomores as have not attained the requisite development. Men, two hours; women, four hours; weekly.

2. Advanced Exercises. 1 to 4 cr. Systematic courses in athletics. Open to all students who have attained the required degree of organic power and bodily skill. Prescribed for sophomores who have completed course 1. Prerequisite: course 1 or its equivalent.

3. Special Corrective Exercises. 1 or 2 cr. Required of all freshmen and sophomores unfitted to take courses 1 and 2.

4. Efficient Living. The laws of personal and general hygiene. Given with course 1.

19. Practice Teaching. Yr.; 2 cr. Mr. Lowman, Miss Elmore.

20. General Technique. a. Men. b. Women. For professional students. The practice course for students majoring or minoring in physical education. Parallel to courses 1 and 2, including in addition, instruction in nomenclature, elementary organization of materials, methods of leading sections and squads, and practice leading in courses 1 and 2. The course covers four years for major and two years for minor students.

21-40. 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 (men and boys). 27. Baseball. 29. Football—American. 30. Soccer, field hockey, and ice hockey. 34. Boxing, fencing, and wrestling. 21, 22, 23, 24 required for major or certificates. Prerequisite: Personal skill in the performance of each activity acquired in course 20 or its equivalent.

41-50. Special Organization and Methods for Women. 1 cr. 41. Gymnastics (tactics, calisthenics, apparatus). 42. Plays and games. 43. Folk dancing. 44. Basketball and field hockey. 45. Swimming and boating. 46. Advanced folk and esthetic dancing. 47. Baseball and track and field. 48. Rowing. 50. Fencing, archery, and tennis. 41, 42, 43, 44 required for major or certificates. Prerequisite: Personal skill in the performance of each activity acquired in course 20 or its equivalent.

***16. First Aid to the Injured.** II; 1 cr. Mr. Elsom.

56. Kinesiology. I; 3 cr. Prerequisites: Physical Education 20 and Anatomy 121. Miss Mossercp.

107. Physiology of Exercise (Physiology 116). I; 3 cr. Prerequisites: course 56 and Physiology 105 or 115. Mr. Eyster, Mr. Dawson, Mr. Meek.

***55. History and Principles of Physical Education.** I; 3 cr. Prerequisites: General Physics first semester, Zoology 1b. Mr. Elsom.

***59. Nature, Function and Organization of Play.** I; 3 cr. Prerequisite: Philosophy 1. Mr. Lowman.

114. Medical Examination. (Clinical Medicine 101.) II; 3 cr. Prerequisites: Anatomy 121 and Physiology 105 or 115. Mr. Evans.

63. Physical Examinations and Gymnastic Therapeutics. Yr.; 2 cr. Prerequisites: Anatomy 121 and Physical Education 56. Either preceded by or taken in conjunction with Physical Education 107 and 114. Mr. Elsom, Miss Lippitt.

90. Principles of Teaching and Adaptation. I; 3 cr. Prerequisites: courses 20, 56 and 59 or 55. Miss Trilling.

68. Organization and Administration of Physical Education. II; 2 cr. Prerequisites: courses 20, 55, 59. Mr. Lowman and Miss Trilling.

71. Scouting and other Adolescent Organizations. Theory and Practice. II; 2 cr. Prerequisites: Philosophy 1 and Physical Education 59, or 3 cr. in education or sociology. Mr. Elsom.

***80. Community Recreation.** II; 2 cr. Prerequisites: Physical Education 59, or three credits in education or sociology. Mr. Elsom.

PHYSICS

PROFESSORS MASON, MENDENHALL, SNOW (CHAIRMAN); ASSOCIATE PROFESSORS INGERSOLL, ROEBUCK, TERRY; ASSISTANT PROFESSOR STEVE; INSTRUCTORS DAHM, ELDRIDGE, GREENSLADE, PETERSEN, PHELPS, WILLIAMSON; ASSISTANTS BRIGGS, FOSSUM, FRAZIER, GREEN, HUBBARD, NETTLETON, PIETENPOL, SANDVIK, TAYLOR; STUDENT ASSISTANTS ANDREE, BENNETT, DOWLING, GUILLEMIN, HANSON, HANTZSCH, HUNT, KARR, KNAPP, SIEGEL, TERRY, WISE.

FELLOW, MR. H. E. FARNSWORTH.

RESEARCH FELLOW, MR. H. C. TERRY.

RESEARCH ASSISTANTS, MR. L. B. SLICHTER, MR. D. L. HAY, MR. S. S. DEVINNEY.

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 1S. Course 1 is arranged for those who have had no high school preparation in physics and who are taking this subject as a general informational or cultural study. Course 1S, which presupposes a year of physics in the high school, is more fundamental in character and furnishes a better preparation for courses 2–15.

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 1S and for those who are preparing to teach. Courses 115–120 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. Mr. Snow, Mr. Ingersoll and staff.

1Sc. General Physics. Yr.; 5 cr. For those who have had a year's course of physics in the high schools. Mr. Snow, Mr. Ingersoll and staff, Mr. Dahm, Mr. Eldridge, Mr. Petersen, Miss Phelps, Mr. Roebuck.

2. Heat. I; 3 cr. Lecture-conference and laboratory. Prerequisite: Physics 1 or equivalent. Mr. Roebuck and Mr. Petersen.

3. Light. II; 3 cr. Lecture-conference and laboratory. Prerequisite: Physics 1 or equivalent. Mr. Roebuck and Mr. Petersen.

4a and 4b. Electricity and Magnetism. I and II; 3 cr. Lecture-conference and laboratory. Prerequisite: Physics 1 or equivalent. Mr. Terry, Mr. Greenslade.

7. Photography. II; 2 cr. Lectures and laboratory. Mr. Roebuck.

8. Elements of Radio Telegraphy. II; 3 cr. Lectures and laboratory. Prerequisite: Physics 1 or equivalent. Mr. Terry.

10. Laboratory Arts. I; 1 cr. Glass blowing and shop work. Required for 100 and 220. Mr. Roebuck and Mr. Foerst.

15. Radio-activity and Discharge through Gases. I; 2 cr. Laboratory and conference. Prerequisite: Physics 1 or equivalent. Mr. Williamson.

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. Terry, Mr. Greenslade, Mr. Roebuck, Mr. Ingersoll and staff.

52. General Physics. II; 5 cr. Heat, Electricity and Magnetism. Mr. Terry, Mr. Greenslade, Mr. Roebuck, Mr. Ingersoll and staff.

53. Mechanics and Heat. I; 3 cr. Required of sophomores in electrical engineering. Mr. Terry, Mr. Ingersoll and staff.

54. Electricity, Magnetism and Sound. II; 3 cr. Continuation of 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. Greenslade, Mr. Nettleton.

56. Advanced Electricity and Light. II; 3 cr. Continuation of Physics 55. Mr. Terry, Mr. Greenslade, Mr. Nettleton.

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, Mr. Steve, 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. Lectures and laboratory. Mr. Mendenhall and Mr. Petersen.

118a. Kinetic Theory of Gases. I; 3 cr. Lectures. Mr. Ingersoll.

118b. Mathematical Theory of Heat Conduction. II; 3 cr. Lectures. Mr. Ingersoll.

120. Colloquium. Yr. Mr. Mendenhall.

For Graduates

211. Advanced Dynamics. Yr.; 3 cr. Offered 1921–22. Mr. Mason.

213. Statistical Mechanics. II; 3 cr. Offered 1922–23. Mr. Mason.

214. Application of Thermodynamics to the Properties of Matter. II; 3 cr. Offered 1921–22. Mr. Roebuck.

215. Theory of Electricity. Yr.; 3 cr. Offered 1922–23. Mr. Mason.

216. Electromagnetic Theory of Light. Yr.; 3 cr. Offered 1922–23. Mr. Mendenhall.

217. Seminary. Applications of Statistical Methods. Yr.; 2 cr. Offered 1921–22. Mr. Mason.

218. Seminary. Phenomena of Line Emission and Absorption. Yr.; 2 cr. Offered 1922–23. Mr. Mendenhall.

219. Thermal Radiation. Yr.; 3 cr. Offered 1921–22. 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 AND PHYSIOLOGICAL CHEMISTRY

Professors Eyster (chairman), Bradley, Meek; Assistant Professor Dawson; Instructors Godshall, Leake, Ronzoni; Assistants Bump, Campbell, Ellis, Kupperman, Peterson, Schulz, Thorngate.

For Undergraduates

1. Elements of Physiology. I; 3 cr. Especially adapted to teachers of elementary physiology and hygiene. Required of sopho-

mores in the Course in Home Economics (2 cr.); open to other students, who should have had some chemistry. Mr. Meek.

2. Elements of Physiology. I; 1 cr. Laboratory. Required of sophomores in the Course in Home Economics, open to others as an elective. Mr. Meek and assistants.

3. Animal Physiology. II; 4 cr. Primarily adapted to students in agriculture, but open to others as an elective. Prerequisites: chemistry and zoology. Mr. Meek, Mr. Leake, Mr. Schulz, Mr. Bump.

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. Godshall and assistants.

105. Physiology. II; 9 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: comparative or human anatomy, histology, neurology, and physiological chemistry. Mr. Eyster, Mr. Meek, Mr. Dawson, and assistants.

114. Physiological Chemistry. I; 3 cr. Required of juniors in physical education and open to others as an elective. Prerequisite: general and organic chemistry, physics, and biology. Mr. Bradley, Mr. Godshall and assistants.

115. Physiology. II; 7 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: Anatomy 105, Physiological Chemistry 104 or 114. Mr. Eyster, Mr. Meek, Mr. Dawson, and assistants.

116. Physiology of Exercise. I; 3 cr. Required of seniors in physical education; open to others as an elective. Prerequisite: Physiology 105 or 115. Mr. Dawson, Miss Kupperman.

117. Advanced Physiological Chemistry and Research. Yr.; credit according to work done. Mr. Bradley.

118. Advanced Physiology and Research. Yr.; credit according to work done. Mr. Eyster, Mr. Meek.

120. Journal Club. Yr.; 1 cr. Mr. Eyster.

For Graduates

208. Advanced Laboratory Course in Physiology. Designed for teachers of animal physiology as well as for physicians and students of medicine who desire a wider experience in experimental physiology than can be gained in course 105. Mr. Eyster, Mr. Meek.

210. Advanced Laboratory Course in Physiological Chemistry. Corresponds to course 208.

POLITICAL SCIENCE

Emeritus Professor Parkinson; Professor Ogg (chairman); Associate Professor Hall; Assistant Professor Potter; Instructors Stuart and Cuncannon; Lecturers MacGregor and McCarthy; Assistants Mott and Thompson.

Scholar, Mr. Law.

Fellow, Mr. Robinson.

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. It is a prerequisite for courses 116, 117, 122, 123, 126, 129, 136, and 258, and is recommended as affording desirable preparation for all other courses. Courses which can be taken to advantage immediately after it are 2, 13, 32, 101, 112, 122, 125, and 131, 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. Normally, a major should include courses 7, 101, 112, 116 or 117, 118 or 125, and 127. 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 degree 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 and 112), 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

(Fields 3–5 inclusive must be offered, *or* any three fields selected from 6–10)

3. International Law; 4. Diplomacy (Organization and Practice); 5. World Politics; 6. National Government and Constitutional Law in 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. Mediaeval 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 must cover at least three fields in the major department; it may cover four if the candidate elects. In any case it will not cover the special field in which the thesis is written. The candidate may be excused by the department from further examination in those fields in which he passes a satisfactory 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 fields 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.

Description of Courses

Courses 1–99 are intended for undergraduates. They may be taken by graduates, but not for credit.

Courses 100–199 are open, with credit, to both graduates and undergraduates.

Courses 200–299 are open only to graduates.

I. GENERAL POLITICAL SCIENCE

101. General Political Science. I and II; 3 cr. A survey of the entire field of political thought and practice. Mr. Potter.

145. History of Political Thought. Yr.; 2 cr. The subject is covered in the first semester to the later seventeenth century; in the second, thence to the present day. Mr. Ogg.

256. Seminary in Contemporary Political Thought. II; 2 cr. Mr. Ogg. (Omitted in 1920–21.)

II. AMERICAN GOVERNMENT

7. Government and Politics in the United States. I and II; 4 cr. Briefly covers national, state, and local government, and also political parties. Prerequisite for certain courses as indicated above. Mr. Stuart and assistants.

13. Municipal Government. I; 3 cr. Chiefly American, but with an introductory survey of European municipal organization. Mr. MacGregor.

114. Municipal Functions. II; 3 cr. Mr. MacGregor. (Omitted in 1920–21.)

115. Practical Problems of Municipal Government. II; 2 cr. Mr. MacGregor.

116. State Administration in the United States. I; 3 cr. Mr. Cuncannon.

117. Federal Administration in the United States. II; 3 cr. Mr. Cuncannon.

122. Political Parties and Party Problems. I and II; 3 cr. Mr. Cuncannon.

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. Mr. Hall. (Omitted in 1920–21.)

258. Seminary in Administration. Yr. 2 cr. (Omitted in 1920–21.)

III. FOREIGN AND COMPARATIVE GOVERNMENT

124. British Self-Governing Colonies. II; 2 cr. Mr. Ogg. (Omitted in 1920–21.)

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, German, Swiss, and Russian. Mr. Ogg.

IV. INTERNATIONAL ORGANIZATION AND RELATIONS

120. Far Eastern Politics. II; 3 cr. Mr. Ogg. (Omitted in 1920–21.)

125. Modern Imperialism and Contemporary Colonial Policies. I; 3 cr. Rivalries for territory and commercial power since 1880, considered as factors in world politics. The topics taken up pertain principally to European and American relations with Africa, the Orient, and the Near East. Mr. Ogg.

131. Latin America and the United States. I and II; 2 cr. Mr. Stuart.

136. Recent and Contemporary Diplomacy. I or II; 3 cr. (Omitted in 1920–21.)

137. International Organization. II; 2 cr. Mr. Potter.

150. Problems in International Law and Diplomacy. Yr.; 2 cr. Mr. Potter and Mr. Stuart.

255. Seminary in the Diplomacy of the Great War. I and II; 2 cr. (Omitted in 1920–21.)

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. Johnson.

109. Roman Law. I or II; 3 cr. Mr. Potter. (Omitted in 1920–21.)

111. Jurisprudence. I or II; 3 cr. Open to students who have had an elementary course in law. (Omitted in 1920–21.)

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.

130. Judicial Administration. I or II; 2 cr. Mr. Hall. (Omitted in 1920–21.)

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 in 1920–21.)

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. Mr. Hall. (Omitted in 1920–21).

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. Gilmore.

VI. MISCELLANEOUS

32. Current Political Topics. I and II; 2 cr. Intended primarily for students of journalism. Mr. Stuart.

ROMANCE LANGUAGES

Emeritus Professor Owen; Professors Giese, Smith (chairman); Associate Professors Cerf, Cool, Schlatter; Assistant Professors Atkin, Bradley, Cheydleur, Ernst, Gay, Gillen, Johnson, Lipari, Lyon, Michell, Ortega, Reed; Instructors Brooks, A. C. Cardon, L. Cardon, Espinosa, Fite, Garwood, C. H. Greenleaf, J. H. Greenleaf, Grundler, Halverson, Helie, Hoffman, Hurlbut, Pflueger, Phillips, Rogers, Scallon, Smith, H. Sprague, F. A. Sprague, Treille, Wilson; Assistants Acton, Brashear, Casis, Conklin, Dejean, Haessler, Manosalva, McGilvary, Mott, Salvan, Smith, Utt, Wofsy.

Fellow, Miss Dorothy Johnson.

Scholars, Miss Bissell, Miss Puehler, Miss Walker.

French Scholars, Mlle Dejean, Mlle Salvan.

French courses numbered below 10 are for students who have had no French, or who have had less than two years in the high school. Students with only one year of high school French or its equivalent should enter course 1b.

Courses 10–16 are for students who have had one year of college French, or two years of high school French. Students who have had

more than two years of high school French should consult with the department concerning the course to enter.

All courses above 19 require at least French 10, or an equivalent course as prerequisite. Students entering these courses with the minimum prerequisite are advised to begin, if possible, with 21 as the first literature course. However, especially well prepared students may be allowed to enter 122, 123, 136 and 137. Suitable courses which may be taken in addition to the above, or alone, are 16, 20, 124.

Students with less than three years of college French should consult the instructor before entering 125, 126, 127, 128, 131, 132, 133 or 139. These are intended primarily for students who have already taken one course above French 19.

All courses in the 200 group are for graduates.

The insertion of CL after a course number indicates that the course belongs also to Comparative Literature.

Major

Students are allowed to major in French or Spanish. An undergraduate major is not offered in Italian. In French the student must take at least 24 hours in advance of first year French; in Spanish twenty-two credits in advance of first year Spanish.

A student taking a second Romance language does not count it as a part of his major, nor is it counted in the maximum forty hours allowed in one subject.

Students expecting to teach French as a major must take a minimum of twenty hours in advance of second year French. They are required to take the following French courses: 90, 190, four credits in composition and conversation, and at least six credits in French literature.

Students expecting to teach Spanish as a major must take a minimum of twenty-two credits in advance of Spanish 1. They are required to take 90 and at least two credits in composition and conversation.

Minor

For a minor in Spanish ten credits in advance of second year Spanish are required. At least two credits in composition or conversation must be included.

For a teaching minor in French there is required a minimum of twelve hours in advance of second year French. At least two credits

in composition or conversation and at least three credits in some general course of French literature must be taken.

Clubs

Students are selected from classes beyond French 10 and offered the privilege of joining conversation clubs which meet every Wednesday evening. Similar organizations exist for students in Spanish, meeting fortnightly on Tuesday evenings.

Modern and classical French and Spanish plays are presented from time to time by the clubs.

French House

A French House intended especially for intensive training in speaking French is maintained by the Department of Romance Languages. It is open to women students for room and board. Both men and women rooming outside the house may take their meals there. French women reside in the house to aid in conversation, and they, with regular instructors, preside at the tables. The language of the house is French. This house is also the headquarters for the various French clubs. Students desiring to reserve places for either the summer session or the regular term should apply well in advance to the Department of Romance Languages.

FRENCH

I. LANGUAGE

For Undergraduates

1a. Beginning French. I or II; 4 cr. Mr. Ernst and staff.

1b. Second Semester French. I or II; 4 cr. Prerequisite: one semester of college French or its equivalent. Mr. Ernst and staff.

10a. Third Semester French. I or II; 3 cr. Mr. Cheydleur and staff.

10b. Fourth Semester French. I or II; 3 cr. Mr. Cheydleur and staff.

13. Rapid Sight-Reading. Yr.; 1 cr. Except by special permission to be taken only with some other French course. Mr. Atkin, Miss Brashear, Miss Hurlbut, Mr. Rogers, Mr. Maxwell Smith.

14. French Composition. Yr.; 1 cr. Supplementary to French 10 and except by special permission, to be taken only with some other French course. Miss Gay and staff.

15. Elementary Conversation and Composition. Yr.; 2 cr. Prerequisite: 1b or its equivalent. Miss Gay and staff.

16. Intermediate Conversation and Composition. Yr.; 2 cr. Prerequisite: French 15 or its equivalent. Mrs. Greenleaf, Mlle Treille, M. Cardon.

18. French Journalism. Yr.; 1 cr. in French and 1 cr. in journalism. Mr. Ernst.

20. Third Year Reading. Yr.; 3 cr. Mr. Bradley, Miss Gay, Mr. Gillen, Mr. Maxwell Smith. Mr. Wilson.

90. Theory and Practice of Teaching of French and Spanish. I or II; 2 cr. Mr. Smith, Miss Johnson.

For Undergraduates and Graduates

124. Composition and Conversation. Yr.; 2 cr. Open to students who have had two or more years of French. Miss Gay and staff.

127. Advanced Composition and Conversation. Yr.; 2 cr. Open to students who have had 124. Mrs. Greenleaf, Mr. Hoffman.

190. Phonetics. Theory of the French sounds with practice in pronounciation. I or II; 2 cr. Mrs. Greenleaf.

227. Graduate Composition and Conversation. Yr.; 1 cr. Open to students who have had 127 or its equivalent. Mrs. Greenleaf.

240. Old French. Yr.; 2 hours. An introductory course. Mr. Schlatter.

244. Old Provençal. Yr.; 2 hours. Mr. Reed.

249. Chrétien de Troyes. Yr.; 2 hours. Prerequisite: French 240 or its equivalent. Miss Gay.

II. LITERATURE

Course 20 or 21 or the equivalent is prerequisite to all other courses in Literature.

For Undergraduates

21. Elementary Survey. Yr.; 3 cr. Five sections. Mr. Atkin, Mr. Cerf, Mr. Cheydleur, Mr. Michell, Mr. Maxwell Smith.

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

For Undergraduates and Graduates

100. Thesis Course. Yr.; 2 cr. Open only to seniors and graduates. Two sections: 1. Rousseau and Chateaubriand, Mr. Atkin. 2. George Sand, Miss Gay.

122. French Literature of the Nineteenth Century. Yr.; 2 cr. Mr. Atkin.

123. Modern French Drama. Yr.; 3 cr. Mr. Smith.

125. Contemporary French Literature. Yr.; 3 cr. Mr. Ernst.

126. French Poetry. II; 3 cr. Follows French 133. Conducted in French. M. Cardon.

128. French Prose Writers of the Seventeenth Century. II; 3 cr. (Omitted 1921–22.) Miss Gay.

131. General Survey of French Literature. Yr.; 3 cr. Mr. Reed.

132. French Literature of the Eighteenth Century. II; 3 cr. (Omitted 1921–22.) Mr. Michell.

133. Victor Hugo. I; 3 cr. Followed by French 126. Conducted in French. M. Cardon.

136. The French Novel from the Seventeenth Century to the Twentieth. Yr.; 3 cr. Mr. Cheydleur.

137. Molière. II; 3 cr. Mr. Zdanowicz.

138. Survey of French Drama from the Renaissance to the Romantic School. Yr.; 2 cr. Mr. Michell.

139. French Drama of the Seventeenth Century. I; 3 cr. (Omitted 1921–22.) Mr. Michell.

242. Old French Epic Poetry. Yr.; 2 cr. (Omitted 1921–22.) Mr. Smith.

246. Seminary in French Paleography. Yr.; 2 cr. (Omitted 1921–22.) Mr. Smith.

247. From Froissart to Rabelais. Yr.; 2 cr. (Omitted 1921–22.) Miss Gay.

248CL. Medieval Literature. Yr.; 2 cr. Mr. Reed.

250CL. The Renaissance in Romance Countries. Yr.; 2 cr. Mr. Cerf. See Comparative Literature 250.

252CL. Seminary in Ancient French Drama. Yr.; 2 cr. (Omitted in 1921–22.) Mr. Smith.

253. Seminary in French Literature. Yr.; 2 cr. Classicism. Mr. Giese.

254. Seminary in French Literature. Yr.; 2 cr. Romanticism. Mr. Cerf.

256. Criticism. Yr.; 2 cr. The principles of literary criticism in their historical development. (Omitted 1921–22.) Mr. Giese, Mr. Cerf.

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. Beginning Italian. I; 4 cr.

1b. Second Semester Italian. II; 4 cr.

10. Second Year Italian. Yr.; 3 cr. Prerequisite: one year of college Italian or its equivalent.

II. LITERATURE

For Undergraduates and Graduates

102. Italian Literature of the Eighteenth and Nineteenth Centuries. Yr.; 3 cr.

152. Italian Literature of the Fifteenth and Sixteenth Centuries. Yr.; 3 cr. (Omitted 1921–22.)

160. The Divine Comedy. Yr.; 3 cr. (Omitted 1921–22.)

161. Italian Literature of the Thirteenth and Fourteenth Centuries, (excluding the *Divine Comedy.*) Yr.; 3 cr. Mr. Lipari.

PORTUGUESE

271. Portuguese Language and Literature. II; 2 cr. Mr. Reed.

SPANISH

First and second semester courses in Spanish are numbered below 10. The prerequisite for courses 10–20 is one year of college Spanish or its equivalent. For courses above 20 the prerequisite is two years unless otherwise stated.

Students majoring in Spanish may count commerce courses toward the major only where permission has been given to take such courses.

The teachers course in French (French 90) is accepted for the Spanish major, separate review, observation, and practice work being required.

I. LANGUAGE

For Undergraduates

1a. Beginning Spanish. I or II; 4 cr. Mr. Lyon and staff.

1b. Second Semester Spanish. I or II; 4 cr. Mr. Lyon and staff.

10a. Third Semester Spanish. I or II; 3 cr. Mr. Cool and staff.

10b. Fourth Semester Spanish. I or II; 3 cr. Mr. Cool and staff.

14. Spanish Commercial Letter-Writing. Yr.; 1 cr. Supplementary to Spanish 10a and 10b, and not to be taken alone without permission. Mr. Cool and staff.

15. Elementary Conversation. Yr.; 1 cr. Supplementary to Spanish 10a and 10b, and to be taken only in connection with some other Spanish course, except by consent of the instructor. Mr. Lyon and staff.

II. LITERATURE

For Undergraduates and Graduates

102. Spanish Contemporary Novel and Drama. Yr.; 3 cr. Conducted mainly in Spanish. Prerequisite: two years of Spanish, except by permission of the instructor. Mr. Cool.

103. Spanish Lyric Poetry. II; 3 cr. Conducted mainly in Spanish. Prerequisite: two years of Spanish, except by permission of the instructor. Mr. Ortega.

104. Don Quijote. Yr.; 3 cr. Prerequisite: two years of Spanish, except by permission of the instructor. Mr. Reed.

105. Survey of Eighteenth and Nineteenth Century Spanish Literature. Yr.; 3 cr. Prerequisite: Spanish 10 or equivalent of at least two full years of university Spanish. Mr. Lyon.

106. Spanish Drama. Yr.; 2 cr. Spanish drama of the eighteenth and nineteenth centuries. Mr. Lyon.

107. Galdos. Yr.; 2 cr. Mr. Ortega.

111. The Spanish Novel. Yr.; 2 cr. From its origins through the nineteenth century. Mr. Cool.

116. Composition and Conversation. Yr.; 2 cr. Prerequisite: Spanish 10, or equivalent of at least two years of university Spanish. Mr. Lyon, Mr. Ortega.

For Graduates

270. General Survey. Yr.; 2 cr. Mr. Reed.

VULGAR LATIN

272. Origins of the Lingua Vulgaris. Yr.; 2 cr. Mr. Reed.

273. Romance Philology. Yr.; 2 cr. Mr. Reed.

SCANDINAVIAN LANGUAGES

PROFESSOR OLSON.

LANGUAGE AND LITERATURE

For Undergraduates

1. First Year Norse. Yr.; 4 cr. Primarily for freshmen.

2. Second Year Norse. Yr.; 3 or 4 cr. Haereid's *Norges Historie* is read for the extra credit. A continuation of course 1.

3. Norse Grammar and Literary Readings. Yr.; 3 or 4 cr. For students who have some familiarity with the spoken language, or who have a good knowledge of other foregin languages.

4. Novels and Dramas. Yr.; 2 or 3 cr. Jonas Lie's novel *Den Fremsynte* is read for the extra credit. A continuation of course 2 or 3.

5. Ibsen's Dramatic Poems. Yr.; 2 or 3 cr. *Boken om Norge*, IV is read for the extra credit of each semester.

6. History of Dano-Norwegian Literature. Yr.; 2 cr. Broch og Seip's *Litteraturhistorie* and *Boken om Norge*, V.

21. Composition and Conversation. Yr.; 2 cr. Course 2 or 3 is a prerequisite.

61. Swedish Literature. Yr.; 2 cr. Designed primarily for students who read modern Norse.

70. Norse Mythology and the Volsunga Saga. I; 2 cr.

71. Early Scandinavian Life and Literature. II; 2 cr. Lectures, with readings from the sagas in translation.

72. Scandinavian Classics. I; 2 cr.

73. Modern Norse Literature. II; 2 cr.

74. Ibsen's Brand and Peer Gynt. I; 2 cr.

Courses 70, 71, 72, 73, and 74 are lecture courses and a knowledge of the Scandinavian 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 languages.

109. Modern Norwegian Novels and Dramas. Yr.; 2 cr.

110. Modern Norwegian Poetry. I; 1 cr.

111. Norwegian Dialect Writers. II; 1 cr.

112. Scandinavian Literature. Yr.; 2 cr. A general survey.

SEMITIC LANGUAGES AND HELLENISTIC GREEK

Emeritus PROFESSOR WILLIAMS; ASSISTANT PROFESSORS KELLY, WOLFENSON (CHAIRMAN).

FELLOW, ————

The various courses of this department are adapted to the needs of:

1. The general student, desiring to extend his culture, or with a view to teaching, by becoming acquainted with this non-Indo-European family of languages giving a view of a little known domain of intellectual development of great importance for liberal culture.
2. The intending theological student, or those already in the ministry, since the Semitic peoples furnish materials of the highest importance for theology.
3. The student of comparative religion and comparative literature.
4. The student of ancient history, anthropology, and sociology, desiring to come into contact with the earliest monuments and records.
5. The student of linguistics, desiring a view of a most important family of languages, a knowledge of which is essential to a thorough understanding of language processes.
6. The student of Semitic languages, literatures, and history for their own sake.

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 and Hellenistic Greek (the original languages of the Bible), courses are offered in Arabic, Aramaic, Assyrian, and Syriac; and should occasion arise, opportunity will be given properly qualified students to prosecute studies in post-biblical Hebrew, Ethiopic, Old Egyptian, and Coptic.

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. Freshmen who are not prepared to take advanced work may take the elementary (first-year) course in Hellenistic Greek (courses 16 and 17), on condition that they continue with the advanced work thus begun.

Major in Semitic Languages and Hellenistic Greek

The requirements for a major in this department are a minimum of 20 credits, including thesis, made up from any of the courses offered, excepting 1 and 2, 16 and 17, in one or more languages. Elementary work in a second language in this department, however, will not be counted as a part of the 40 credits allowed as a maximum in any one department; and the amount of work required will be subject to increase and variation, depending upon the progress and needs of the individual student.

GENERAL COURSES, IN ENGLISH

(A knowledge of foreign languages not required.)

For Undergraduates

23. Hebrew History to Solomon. I; 2 cr. Mr. Wolfenson.

24. Hebrew and Jewish History. II; 2 cr. Mr. Wolfenson.

25. Jewish History and Literature. Yr.; or II; 2 cr. The return from the Exile; the history, literature, and law of the Jews to modern times. Mr. Wolfenson.

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. Mr. Wolfenson.

LINGUISTIC COURSES

SEMITIC LANGUAGES

For Undergraduates

1. Elementary Hebrew. Yr.; 4 cr. Mr. Wolfenson.

2. Elementary Hebrew. Yr.; beginning II; 2 cr. This course covers the same ground as the first semester of course 1. Mr. 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. Kelly.

31. Elementary Yiddish. I; 3 cr. A knowledge of German or some acquaintance with spoken Yiddish is prerequisite. Mr. Wolfenson.

32. Advanced Yiddish. II; 3 cr. Course 31 or a reading knowledge of Yiddish is prerequisite. Mr. Wolfenson.

For Undergraduates and Graduates

104. Advanced Hebrew. Yr.; 2 cr. Includes modern Hebrew literature. Mr. Wolfenson.

105. The Minor Prophets. Yr.; 2 cr. An advanced course. Mr. Kelly.

106. The Book of Job. Yr.; 2 cr. Mr. Kelly.

108. Hebrew Syntax. Yr.; 2 cr. Mr. Wolfenson.

112. Elementary Arabic. Yr.; 2 cr. Mr. Wolfenson.

112a. Elementary Arabic. II; 3 cr. For those desiring an opportunity to begin Arabic the second semester. Mr. Kelly.

113. Advanced Arabic. Yr.; 2 cr. Mr. Wolfenson.

114. Elementary Assyrian. Yr.; 2 cr. Mr. Kelly.

115. Talmud. Yr.; 2 cr. Mr. Wolfenson.

127. The Psalms—Books I and II. Yr.; 2 cr. Mr. Kelly.

129. Biblical Aramaic; Syriac. Yr.; 2 cr. Mr. Kelly.

For Graduates

209. Advanced Hebrew Syntax. I; 2 cr. Mr. Wolfenson.

210. Advanced Hebrew Etymology. II; 2 cr. Mr. Wolfenson.

211. Hebrew Seminary. Yr. A knowledge of Hellenistic Greek, Latin, German, and French is necessary for the most effective work, but a knowledge of all the languages specified is not indispensable. Mr. Kelly.

230. Semitic Epigraphy. Yr.; 2 cr. Mr. Kelly.

HELLENISTIC GREEK

For Undergraduates

16. Elementary Hellenistic Greek. Yr.; 4 cr. For those who have not studied classical Greek. Mr. Kelly.

17. Elementary Hellenistic Greek. Yr.; beginning II; 2 cr. This course covers the same ground as the first semester of 16. Mr. Kelly.

18. Second Year Hellenistic Greek. Yr.; 2 cr. Mr. Kelly.

For Undergraduates and Graduates

119. Advanced Hellenistic Greek. Yr.; 2 cr. Mr. Wolfenson.

120. The Book of John. Yr.; 2 cr. (Not given 1920–21.)

For Graduates

221. Hellenistic Greek Seminary. Yr. French, German, Latin, and Syriac are necessary for the most effective work. Mr. Wolfenson.

222. Advanced Hellenistic Greek Grammar. Yr.; 2 cr. Mr. Wolfenson.

SPEECH

Professor O'Neill (chairman); Associate Professor Blanton; Assistant Professors Johnson, Weaver; Instructor McCarthy; Assistants Anderson, Blanton, Doll, McConkey, Stinchfield, Edwards.

Fellow, Mr. R. E. Williams.

These courses are designed to give preparation in three general lines of work: (a) In argumentation and debate, and the composition and delivery of all kinds of public speeches; (b) in interpretative reading and dramatic presentation; (c) in voice training and the correction of speech defects. The courses are so arranged as to make possible systematic and progressive study during the sophomore, junior, and senior years. No courses in speech are open to freshmen.

The University of Wisconsin participates in several intercollegiate contests in oratory and debate, and further opportunity for practice outside of regular courses is to be found in local student activities in drama, oratory, and debate. Students interested in these activities should take the following courses in preparation: For dramatic work, 12, 16, 17, 19; for oratory, 7, 13, 105; for debate, 3a, 7, 8, 11.

Courses 3a, 3b, 11 and 105 may be counted toward the English major. Not more than 16 hours of speech may be counted toward the bachelor's degree, except as permitted by the provisions of the teaching major. Courses 3a and 3b, listed also as courses in English, are part of the work of this department.

A major can be obtained only as permitted by the provisions of the teaching major. A minor is sixteen credits in selected courses approved by the chairman of the department, including 3a and either 190a or 190b.

A teaching major may be obtained under the following conditions:

1. It is open only to candidates for the B. A. degree and the University Teachers Certificate who are intending to become teachers of speech, and who are definitely accepted by this department as satisfactory candidates for this major.

2. The department requirement is not less than 20 nor more than 24 credits, excluding thesis and departmental teachers courses.

For Undergraduates

Speech Clinic. Throughout the university year. Free to all students. Expert guidance and assistance in the eradication of voice and speech defects of all kinds. Open fifteen to eighteen hours a week, so arranged as to make it possible for any student to get whatever treatment is needed. Mr. Blanton and staff.

3a. Argumentation. I and II; 3 cr. Open to all students except freshmen. Mr. O'Neill.

3b. Argumentative Addresses. II; 2 cr. Continuation of 3a. Written argument. Prerequisite: course 3a. Mr. O'Neill.

7. Elements of Public Speaking. I and II; 3 cr. Open to all students except freshmen. Mr. O'Neill, Mr. Weaver, Miss McCarthy.

8. Extempore Speaking. II; 1 cr. Open to all students except freshmen. Mr. Edwards.

11. Debating. II; 2 cr. Continuation of 3a. Oral argument. Prerequisite: course 3a. Mr. O'Neill.

12a. Fundamentals of Vocal Expression. I; 3 cr. Recommended to those intending to teach literature and reading. Open to all students except freshmen. Miss Johnson, Miss McCarthy.

12b. Fundamentals of Vocal Expression. II; 3 cr. Continuation of 12a. Prerequisite: course 12a. Miss Johnson, Miss McCarthy.

13. Advanced Public Speaking. II; 2 cr. Prerequisite: course 7 or 11 or 105. Mr. O'Neill, Mr. Weaver, Mr. Edwards.

16a. Interpretative Reading. I; 2 cr. Prerequisite: course 12b, or permission of instructor. Miss Johnson.

16b. Interpretative Reading. II; 2 cr. Continuation of 16a. Prerequisite: course 16a. Miss Johnson.

17. Dramatic Personation. I; 2 cr. Designed for those who show marked dramatic ability, and who wish to specialize in dramatic platform work. Prerequisite: course 16b and permission of instructor. Miss Johnson.

21. Voice Training. I; 2 cr. Designed for teachers, especially those majoring in speech or English. Open to others by permission of the instructor. Mr. Blanton.

25. Correction of Speech Disorders. II; 2 cr. Mr. Blanton.

For Undergraduates and Graduates

105. Speech Composition. I; 3 cr. Prerequisite: course 3a or 7 or one year English composition after freshman year. Mr. O'Neill.

119. Dramatic Production. II; 3 cr. The selection, casting, staging, and coaching of plays. Experimental study with stage models. Open only to graduates and juniors and seniors in speech. Miss Johnson.

125. Advanced Correction of Speech Disorders. II; 3 cr. Mr. Blanton.

141. Psychology of Reading and Speaking. I; 3 cr. (Omitted 1920–21.) Mr. Weaver.

190a. Seminary in Teachers Problems. I; 2 cr. Open only to graduates and senior majors and minors in speech. Mr. Weaver and staff.

190b. Seminary in Teachers Problems. II; 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. Yr.; 2 hrs. Mr. Blanton.

205. Seminary in Rhetoric and Oratory. Yr.; 2 hrs. Mr. O'Neill.

ZOOLOGY

Professors Guyer (chairman), Pearse; Associate Professors Marshall, Wagner; Assistant Professor Smith; Lecturer Juday; Assistants Andrews, Boyden, Chase, Conger, Forster, Hall, Mossman, Noland, Smith; Student Assistants Fuller, Gregg.

Fellow, Mr. Duncan.

A minimum of thirty credits is required for a major; besides the thesis this should include:

Zoology 1a and 1b or Biology 1; Zoology 9, 102, 104a, and 105. One elementary course in botany is required of those who have not taken Biology 1.

For the advanced courses, training in chemistry and ability to read French and German are desirable.

Medical students will find courses 6, 111, 119, 104a, and 105 of special interest.

Agricultural students will find courses 6, 9, 119, 21 and 110 to 113 of special interest.

For Undergraduates

1a. General Zoology. I; 5 cr. Courses 1a and 1b combined will satisfy the natural science requirement. Mr. Pearse and staff.

1b. Animal Biology. II; 5 cr. The second semester of Biology 1 or Zoology 1a. Mr. Guyer and staff.

3. Elementary Zoology. 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.

100. Thesis Course. For undergraduates.

For Undergraduates and Graduates

102. Invertebrate Zoology. I; 5 cr. Mr. Wagner.

103. The Vetebrates. I; 2 cr. Mr. Wagner.

104a. Comparative Anatomy of Vertebrates. II; 5 cr. Mr. Wagner.

104b. Vertebrate Anatomy. I; 3 cr. Mr. Wagner.

105. Elements of Vertebrate Embryology. I; 3 cr. Miss Smith.

107. Evolution Problems. II; 2 cr. Mr. Guyer.

110. Entomology: Anatomy and Embryology. II; 3 cr. Mr. Marshall.

111. Microscopic Anatomy and Micro-technique. II; 3 cr. Miss Smith.

112. Economic Entomology. I; 2 cr. Mr. Marshall.

113. Forest Entomology. II; 2 cr. Mr. Marshall.

119. Animal Parasites. II; 3 cr. For medical and agricultural students and those interested in the problems of public health. Veterinary students may take the laboratory work alone for two credits. Mr. Pearse.

123. Advanced Entomology. For students who desire to continue some special line of work. Mr. Marshall.

114. Anatomy and Physiology of the Cell; Nondevelopmental Phenomena. I; 2 cr. Mr. Guyer.

115. The Cell in Development and Inheritance. II; 2 cr. Mr. Guyer.

116. Cytology. Yr.; 3 cr. A laboratory course. Mr. Guyer.

117. Animal Ecology and Natural History. II; 2 cr. Mr. Pearse.

122. Animal Behavior. I; 3 cr. Mr. Pearse.

124a. Limnology. I; 2 cr. Mr. Juday.

124b. Plankton Organisms. II; 2 cr. A continuation of course 124a with field work. Mr. Juday.

For Graduates

220. Seminary. 2 cr. Mr. Guyer.

228. Research.

COURSE IN CHEMISTRY

J. H. Mathews, Director, Professor of Chemistry.

The purpose of the Course in Chemistry is to train competent chemists for industrial, government 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 employ chemists to originate, simplify, and control plant processes.

The principal departmental bureaus of the Government employ a considerable number 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, wherever 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 rôle 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 91.

Plan of Course of Study

Four courses of study are offered: A general course, a course for industrial chemist, a course for food or sanitary chemist, 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. 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 results 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 1	3	Mathematics 2	3
German or French	4	German or French	4
English 1a	3	English 1b	3
Mechanical Drawing	1	Mechanical Drawing	1
Total	16	Total	16

GENERAL COURSE

Sophomore Year

First Semester		Second Semester	
Chemistry 11	5	Chemistry 11	5
German or French	4	German or French	4
Physics 1Sc	5	Physics 1Sc	5
Chemistry 10 (or Mathematics 3 or 5**)	3	Bacteriology,* or Mineralogy (or Mathematics 5)	3
Total	17	Total	17

Junior Year

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

First Semester	Credits	Second Semester	Credits
Thesis	2	Thesis	2
Chemical Engineering 15	3	Chemical Engineering 111	2
Chemical Engineering 114a	4	Chemical Engineering 120	2
Economics 11	2	Electives	9
Electives	4		
Total	15	Total	15

*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.

COURSE FOR FOOD CHEMIST OR SANITARY CHEMIST

Sophomore Year

First Semester	Credits	Second Semester	Credits
Chemistry 11	5	Chemistry 11	3
German or French	4	German or French	4
Physics 1Sc	5	Physics 1Sc	5
Bacteriology 1	3	Botany 1	5
Total	17	Total	17

Junior Year

German or French	4	German or French	4
Chemistry 120	5	Chemistry 120	5
Botany 110	3	Botany 133	3
Chemistry 119	3	Chemistry 146	5
Electives	2		
Total	17	Total	17

Senior Year

Chemistry 130	5	Chemistry 130	5
Chemistry 107	2	Electives	8
Chemistry 113	1	Thesis	2
Electives	5		
Thesis	2		
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

First Semester	Credits	Second Semester	Credits
Chemistry 11	3	Chemistry 11	3
German or French	4	German or French	4
Botany 1	5	Agricultural Chemistry 1	3
Physics 1Sc	5	Agricultural Chemistry 2	2
		Physics 1Sc	5
Total	17	Total	17

Junior Year

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 page 65ff.

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. 91.)

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. Those who upon entrance here are granted

60 or more credits towards graduation will be limited in their election in the same manner as students whose grade points do not exceed 79 until they have demonstrated by work here or by records of the institutions from which they were transferred that they belong in the class of those whose grade points aggregate 80 or more.

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 elsewhere a two year's 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 *fair* 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 drill, is required for graduation in this course. Among these must be included credits in two modern foreign languages 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 *good* 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 the physiography of the United States are required as a basis for economic geography, upon which in turn are built several specialized courses in applied economics. In addition students elect a year's course in physics, chemistry, biology or geology. The courses in English are the general training course required of all freshmen in the University and a course in commercial correspondence. Two modern foreign languages are also required. In these courses special attention is devoted to the acquisition of a speaking and writing command of the language for commercial purposes. The courses prescribed 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.

Economics and history reveal the forces which produce changes in commercial conditions and institutions and the laws of such changes. The courses prescribed along these lines are the economic and social history of England, the elements of economics, money and banking, and transportation.

Professional Studies

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

Approximately one-half 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.

Arrangement of Studies

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1	3	English 1	3
Geology 5C	3	Geology 5C	3
History 6	3	History 6	3
Mathematics 1	3	Mathematics 7	3
Foreign Language	4	Foreign Language	4
Total	16	Total	16

Sophomore Year

Economics 1a	4	Economics 1b	4
Accounting 8a	2	Accounting 8b	2
Science	5	Science	5
Foreign Language	4	Foreign Language	4
Elective	2	English 4	2
Total	17	Total	17

Junior

In the junior year all students must take Economics 5, 135, 130a and 181 and foreign language, if they have not previously completed the amount required, and must elect a sufficient number of other courses to aggregate 34 credits for the year. Those whose grade points during the first two years of the course do not exceed 79 may not include among their electives during this year courses in Business Administration or Economics 133, 134, and 137, nor may they elect, in addition to their required work, more than six credits per semester in any one department.

Students whose grade points during the first two years aggregate 80 or more may elect not to exceed 6 credits per semester from Business Administration 10, 11, 12, 13, 14, 15 and 16 and Economics 137, 133, 134 provided they have had the necessary prerequisites.

Senior

All students in the senior year must take Commercial Law (Economics 109), Business Administration 11 and 13 and Economics 3 and 137 provided these were not elected in the junior year and elect a sufficient number of other courses to complete their language and major* requirements and the 132 credits required for graduation.

Students who wish to specialize in some part of the business field may group their electives in the manner indicated below or make other combinations approved by their advisors.

*That is the requirement of not less than thirty nor more than fifty-two credits in Economics.

Elective Groups

Banking and Finance

Financial History of the U. S., 3; Money Markets, 3; Corporation Finance, 3; Investments, 2; Public Finance, 3; Thesis, 4.

Accounting

Advanced Accounting Problems, 2; Auditing, 2; Analysis of Corporation Reports, 2; Cost Accounting, 2; Accounting Systems, 2; Governmental Accounting, 1; Corporation Finance, 3; Investments, 2; Thesis, 4.

Advertising and Marketing

Buying and Credits, 2; Marketing Methods, 2; Sales Administration, 2; Psychological Principles of Advertising, 2; Retail Advertising, 2; Advertising Campaigns, 2.

Transportation and Public Utilities

Railway Rate and Traffic Problems, 3; Public Utilities, 2; Corporation Finance, 3; Government and Politics of the U. S., 3; Thesis, 4.

General Secretary

Buying and Credits, 2; Marketing Methods, 2; Sales Administration, 2; Corporation Finance, 3; Advanced Commercial Correspondence, 2; Retail Advertising, 2; Publicity and Printing, 2; Stenography and Typewriting.

Insurance

Mathematics 124, 3; Insurance Economics, 3; Seminary in Insurance, 2 Industrial Insurance, 2; Corporation Finance, 3; Investments, 2; Thesis, 4.

Commercial Teachers

Education, 17 (requirements for a teacher's certificate); Advanced Accounting Problems, 2; Auditing, 2; Business Administration, 2; Thesis, 4.

Real Estate

Marketing Methods, 2; Sales Administration, 2; Advertising Campaigns, 2; Retail Advertising, 2; Taxation, 3; Investments, 2; City Planning, 4; Thesis, 4.

For detailed information with regard to the foregoing courses of instruction see the announcements of the several departments of the College of Letters and Science.

Requirements for Graduation

Students who have successfully completed the above course of study will be admitted to graduation and will receive the degree of Bachelor of Arts.

Graduate Students

Graduates of this or other colleges and universities of good standing will be admitted to this course, and arrangements will be made so that they may take its peculiar studies in two years or less, provided they have already pursued some of them in their undergraduate courses.

Preparation for Teachers

Students who wish to prepare themselves for teaching are advised to take the commercial teachers group described above, which includes the courses prescribed for the teachers license in this state and given by the Department of Education, and courses in accounting and business administration in addition to those required of all students in the Course in Commerce. Facilities for pedagogical practice will be given such students in the accounting laboratories.

Special Lectures

Special lectures are provided from time to time for the purpose of acquainting students with present business conditions and opportunities. As far as possible men representing the chief business enterprises of the United States are secured for this purpose.

COURSE IN JOURNALISM

WILLARD G. BLEYER, DIRECTOR, PROFESSOR OF JOURNALISM.

Purpose and Plan of the Course

The studies included in the Course in Journalism are of two kinds: (1) Those designed to familiarize the student with present social, political, and economic conditions in the light of their origin and development, as well as with the literature of his own and other languages; (2) those intended to give the necessary instruction in the methods of journalism and advertising. The course of study has been arranged in the belief that the greater part of the time should be devoted to a study of the subjects of the first group, such as history, political science, economics, sociology, philosophy, psychology, language, and literature, which are fundamental to journalistic work.

The technical work includes courses in reporting, editing, the writing of special feature articles, editorial writing, the country newspaper, the history and principles of journalism, and newspaper

administration. 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 Languages Department. Courses in cartooning and in drawing for illustrations are offered by the Department of Manual Arts. Instruction is also given in the law of the press, including the law of copyright, literary property, libel, privileged publication, and other topics relating to the publication of books and newspapers.

Special lectures on various phases of journalistic work are given by newspaper men in active service.

Additional information is given in the bulletin, "Course in Journalism, 1921–22," which may be had on application to the Director.

Advertising

Students can secure special training in preparation for advertising positions by combining courses in journalism with those in advertising. The normal arrangement of these courses during the four years is as follows: Freshman year, General Survey of Journalism; Sophomore year, Reporting and Correspondence; Junior Year, Editing, the Writing of Special Feature Articles and Commercial Correspondence; Senior year, History and Principles of Journalism, The Writing of Advertising Booklets, Retail Advertising, Advertising Campaigns, and the Law of the Press.

Technical and Trade Journalism

Although the Course in Journalism has been arranged primarily for those preparing for newspaper and magazine work, provision has also been made for those interested in technical and class journalism. The courses in newspaper and magazine work may be elected by students in the professional schools and courses. Students in the Course in Journalism may elect courses in the College of Mechanics and Engineering, the Law School, and in the College of Agriculture, as well as in the Course in Pharmacy and the Course in Commerce in the College of Letters and Science. By combining studies in commerce, agriculture, engineering and other technical subjects with those outlined in the Course of Journalism, students can obtain the necessary preparation for practically all lines of technical and trade journalism.

Agricultural Journalism

Courses in agriculture and agricultural journalism given in the College of Agriculture can be combined with those in the Course in

Journalism by students who desire special training in preparation for positions on farm journals.

The normal arrangement of courses in journalism for students in the Colleges of Letters and Science and Agriculture who are preparing for agricultural journalism is as follows: Freshman year, General Survey of Journalism; Sophomore year, Reporting and Correspondence; Junior year, Editing, and the Writing of Special Feature Articles; Senior year, Principles of Journalism, Editorial Writing, Agricultural Journalism 1 and 4, Advertising (Economics 15 and 16), The Law of the Press.

Laboratory Equipment

A newspaper office with typewriters, files, indexes, and reference books is maintained as a laboratory for the students of journalism. Index and filing cases show methods of preserving photographs, illustrations, clippings, and biographical and statistical material.

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 quarterly edited and published by the students of the College of

Engineering; the *Wisconsin Country Magazine*, a monthly edited and managed by the agricultural students; and the *Commerce Magazine*, a quarterly issued by the University Commerce Club, furnish practice for those interested in technical and trade journalism.

General Requirements

Students will be admitted to the Course in Journalism on compliance with the conditions imposed for entrance to the College of Letters and Science. (See p. 91.)

Students who have satisfied all the requirements for entrance but do not wish to be candidates for a degree will be admitted to any of the courses for which they are properly prepared.

The requirement for graduation from the Course in Journalism is 120 credits, the number required for the degree of bachelor of arts in the College of Letters and Science. (See p. 110.) 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 languages, and science or mathematics; (2) those that are prerequisite for advanced work in the fields with which journalism is especially concerned, such as the general survey of English literature, American history, elementary economics, elementary law, and government and politics in the United States; (3) those that give the necessary technical instruction and practice in journalism, including those in advertising and the law of the press. The required courses in journalism are Newspaper Reporting (Journalism 2), 6 credits; Editing (Journalism 3), 6 credits; History and Principles of Journalism (Journalism 110), 6 credits; and either Editorial Writing (Journalism 104), 4 credits, or The Writing of Special Feature Articles (Journalism 105), 4 credits.

The elective studies include those courses in history, political science, economics, literature, and philosophy that are essential for the best type of journalism.

The following list contains the required and elective courses arranged under the four years in the order in which they should normally be taken. Arabic figures indicate the credits; Roman numerals show the semester in which the course is given.

Freshman Year

General Survey of Journalism, 0; Freshman English, 3; Foreign Language, 4; English History, 3; Medieval History, 3; Mathematics, 3 or Science, 5.

Sophomore Year

Newspaper Reporting and Correspondence, 3; Introduction to the Study of Literature, 3; General Survey of English Literature, 3; History of the United States, 3; Elements of Economics, 4, I, II; Elements of Money and Banking, 3; Foreign Language, 4; Free Hand and Applied Drawing, 3.

Junior Year

Newspaper Editing, 3; Writing of Special Feature Articles, 2; Journalistic French, 2; Commercial Correspondence, 2, II; Law of the Press, 2, II; American Literature, 2; Argumentation (Public Speaking 3a), 3, I; Modern European History, 3; The British Empire, 2; Elementary Law, 3, I; Government and Politics in the United States, 2, II; International Law, 2; Party Government, 3, I; Poverty and Relief, 3, II; Labor Problems, 2, II; Social Psychology, 3, I; Statistics, 3, I; Problems of Taxation, 2, II; History of New England, 3, II; Psychology, 3, I; Ethics, 3, II; Introduction to Philosophy, 3, II; Logic, 2, II.

Senior Year

Editorial Writing, 2; History and Principles of Journalism, 3; The Country Newspaper, 2, I; Newspaper Administration, 2, II; Retail Advertising, 2, I; Thesis, 2; History of the West, 3; Nineteenth Century Europe, 3, II; Diplomatic History of the United States, 2; Recent History of the United States, 3; Transportation and Communication, 3, II; Financial History of the United States, 3, I; The Money Market, 3, I; Industrial Evolution and Its Problems, 2, I; Administrative Problems, 2, I; 1, II; Theory and Practice of Legislation, 3; Municipal Functions, 2, II; Municipal Government in Europe and the United States, 3, II; Contemporary International Politics, 2, I; Social, Political, and Business Ethics, 2; Philosophic Thought in Nineteenth Century English Literature, 2, II; History of Modern Philosophy, 3, II; Contemporary Drama, 2; Contemporary Novel, 2; Victorian Prose Writers, 2; The Victorian Era, 3; Current Political Topics, 2.

COURSE IN PHARMACY

EDWARD KREMERS, DIRECTOR, PROFESSOR OF PHARMACEUTICAL CHEMISTRY.

Object of the Course

The prime object of the Course in Pharmacy is to furnish a thoroughly scientific foundation for the pursuit of the profession of pharmacy. The elements of the fundamental natural sciences, chemistry, botany, and physics, must first be studied before their

application to pharmacy can rationally be considered. This is as true for pharmacy as for any other applied science or art. In pursuing these general studies the pharmacy students have the advantage of close association with students from other courses. The University does not demand practical experience for admission to the courses in pharmacy, but desires such preparation as will best fit for college or university work.

The general study of these fundamental sciences is followed by more or less specialized courses. General chemistry, inorganic and organic, qualitative and quantitative analysis, are followed by pharmaceutical chemistry, and applied chemical analysis; general botany by vegetable histology and anatomy of drugs; general physics by pharmaceutical technique. These somewhat specialized studies, in turn, not only lay the foundation for the study of the more strictly applied courses in practical pharmacy and pharmacognosy, but also prepare the student for thesis work.

The student who can spend only two years at the University is compelled to take up the more technical studies of his course before he has laid a satisfactory foundation. Such a compromise is outlined under the caption, Courses of Study. The three-year student, as a rule, finds time to pursue studies other than those outlined above, e. g., physiology, bacteriology, etc. The four-year student has th great advantage of supplementing his high school preparation during the freshman and sophomore years by acquiring a reading knowledge of French and German, and by the study of university mathematics, all of which studies are of the greatest importance when the more advanced work of the natural sciences is taken up during the junior and senior years.

Special attention is called to the Four-year Course offered to graduates of accredited high schools. This course was created in order to accommodate those students who desire to obtain a general scientific education and to include in their course the pharmaceutical studies, and with the hope of stimulating a broader pharmaceutical education. For the more applied courses special laboratories have been equipped.

Like the sister profession, medicine, pharmacy is in need, not only of the general practitioner, but also of the specialist. For the preparation necessary to equip such specialists the University offers graduate courses. Graduates who desire to prepare themselves as chemists for manufacturing establishments, as analytical, food, or sanitary chemists, or as bacteriologists, will find that the graduate work in the Course in Pharmacy, as well as the other departments of the University, offers excellent opportunities for

advanced and more specialized study. Special lines of research can also be pursued in various departments by those who desire to work for a higher degree. The attention of advanced students is especially called to the graduate work. (See Index.)

Laboratories

The pharmaceutical laboratories are located on the third and fourth floors of the Chemistry Building. On the third floor, they consist of a dispensary, a laboratory for analytical purposes, and a laboratory for general pharmaceutical chemistry; on the fourth floor, of a milling room and laboratories for extraction and distilling purposes equipped with steam and vacuum apparatus. The work of these laboratories is carefully coordinated and culminates in the prescription work of the dispensary.

Adam Conrath Memorial Fund

In 1912 the Wisconsin graduates of the Philadelphia College of Pharmacy gave $75 to the University to establish the Adam Conrath Memorial Fund. This sum is to be added to from time to time until the amount reaches $250. The income is then to be used to maintain a set of the *American Journal of Pharmacy* in the University.

Terms of Admission

The requirements for admission to the several colleges of the University are decribed on pages 91ff.

Degrees

The first degrees given in pharmacy are those of graduate in pharmacy upon completion of the two-year course, and of bachelor of science, pharmacy course, conferred upon candidates who have successfully met the requirements of the four-year course.

The degrees of master of science and doctor of philosophy are conferred as higher degrees upon candidates who have a baccalaureate degree.

Fees and Expenses

See pp. 65ff.

Outline of Two Year Course

First Year

First Semester	Credits	Second Semester	Credits
Botany 1	5	Botany 130	4
Pharmacognosy 10	1	Chemistry 1	5
Chemistry 1	5	Chemistry 11	2½
Pharmacy 1	3	Chemistry 17	2½
Pharmacy 20	3	Pharmacy 1	3
Pharmacy 40	1	Pharmacy 40	1
Total	18	Total	18

Second Year

Chemistry 20	4	Chemistry 27	5
Chemistry 26	4	Chemistry 40	3
Chemistry 40	3	Botany 111	3
Botany 110	3	Pharmacognosy 20	2
Pharmacognosy 20	2	Pharmacy 30	4
Pharmacy 121	2	Chemistry 45	1
Pharmacy 50	1	Pharmacy 50	1
Thesis	2	Thesis	2
Total	21	Total	21

For detailed information as to the foregoing courses see the announcements of the several departments of the College of Letters and Science.

Students who desire to include pharmaceutical studies as a part of their general college education elect the prerequisite studies enumerated below. Such a course, if to lead to the degree of bachelor of science, pharmacy course, must include courses 1, 20, 30, 40, 50 and 121 in Pharmacy, and course 20 in Pharmacognosy or their equivalents.

Basal sciences: Chemistry 1, 11, 20, 17 or their equivalents; Botany 1 and 130 or their equivalents; Physics 1. These should be taken during the first and second years.

Advanced sciences: Chemistry 26, 27 and 40; Botany 110 and 111. These courses should be taken during the third year in order that the courses in pharmacy and pharmacognosy mentioned above may be taken during the fourth year.

The language requirements of this course are English 1a and 1b, French 1a and 1b, and German 2a and 2b, or their equivalents, which should be taken during the first and second years.

The major study and thesis may be taken in chemistry, botany, pharmacy, or any department in which the student is sufficiently

prepared to do such work. For the rules governing the major study and thesis, see Index under Major Study.

Additional electives sufficient to make 120 unit-hours may be chosen upon consultation with the advisor for pharmacy students. 120 grade points are also required for graduation.

Pharmaceutical Experiment Station

In accordance with an act passed by the legislature in 1913, a Pharmaceutical Experiment Station has been established in connection with the Department of Pharmacy. The object of the Station, as outlined by the law establishing it, is two-fold:

(1) To cooperate with the Bureau of Plant Industry of the Department of Agriculture in the maintenance of the northern station for the cultivation of medicinal plants and to disseminate such information as may lead to the proper cultivation of medicinal plants and the production of high grade vegetable drugs in this state; and

(2) To serve the public at large by cooperation with both pharmacists and physicians in securing for the sick the best medicines that pharmaceutical science and art can provide, and further by cooperation with the State Board of Pharmacy, the State Board of Health, and the Dairy and Food Commission, to bring about these results.

The staff of the Experiment Station is made up of members of the faculty of the Department of Pharmacy. In addition, the research fellows in pharmacy devote their entire time to the work of the Station. A garden of about forty acres for the scientific cultivation of medicinal plants and a laboratory for the 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, Newport Chemical Works, Newport Turpentine and Rosin Company, and the American Pharmaceutical Association Research Award.

For detailed information in regard to these, see pp. 359ff.

LIBRARY SCHOOL

C. B. Lester, Director; Mary Emogene Hazeltine, Preceptor.

The purpose of the School is to provide a course of study that shall fit its students to become well-rounded library workers. While the course of instruction is necessarily devoted largely to a study of library technique and library administration, the broader educational and literary features of the profession are also strongly emphasized. The course of instruction includes the fundamental principles of library work in all of its branches, developed along practical lines. The students of the School have exceptional opportunities to come into contact with actual rather than theoretical problems, and to work these problems out to practical solution.

The closest relation of the student with actual conditions comes during the eight weeks of field practice apportioned to each. During this field work the student has an opportunity of coming into contact with the traveling library system, study clubs, legislative reference library, cooperation of libraries with schools, publicity methods, book selection, organization of new libraries, reorganization of old ones, the conduct of library institutes, and other lines of activity incident to library commission work. Thus there is presented to the student not only the concrete problem, but with it the practical solution.

Location and Equipment

The school is located on the second floor of the Madison Free Library building, North Carroll street, near the business center of the city.

The technical library of the School comprises 7,000 volumes of general reference works, subject and trade bibliographies, books for illustration in presenting the different courses of study and for practice in working out the lessons that are set, all necessary professional literature, and a considerable and thoroughly representative collection of children's books. There are also upon the shelves thousands of printed blanks and forms, and library plans from various parts of the country, all illustrating different methods of administration; also complete up-to-date files of reports, bulletins, and miscellaneous publications of the leading libraries of the country.

Entrance Requirements

Each candidate for admission to the School must fill out an application blank, a copy of which may be obtained by addressing the Preceptor, Miss Mary Emogene Hazeltine, Wisconsin Library School, Madison, Wis. Students will be admitted only at the beginning of the first semester.

Applicants are required to take the entrance examinations, which are held on the second Friday in June of each year. These examinations are competitive, and can be taken only at the time specified. They presuppose as a minimum a high school education or its equivalent, and are designed to test the education, reading, and general information of the applicant, especially in history, general literature, and current information. Sight translation from one modern language is also included. Specimen questions are printed in the special catalogue of the School and will be sent upon application to the Preceptor.

Applicants holding a degree from an approved college are not required to take the written examination but must meet all other entrance requirements.

Suggested Preliminary Preparation

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 modern languages.

Modern languages, French, German or Spanish.

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.

Prerequisites

Accepted candidates must meet several special entrance requirements before joining the classes in the fall. All who have not had experience in library work must spend at least one month in actual work in a designated library *before the school opens in September*. Candidates must be skillful with the typewriter before entering, as the School requires its use in the preparation of many of the lessons, and no instruction is given in the School. It is also required that the standard "library handwriting" be mastered. Accompanying the application blank is a required list of books to be read in preparation for the first recitation of the school year in book selection.

Tuition and Expenses

See pp. 65ff.

Students needing financial assistance may avail themselves of the loan fund provided by the alumni of the School.

Course of Instruction

The instruction in general library science may be taken in two ways:

(a) As an independent library course of one year, by all who meet the entrance requirements of the School. The certificate of the Library School is given to those who satisfactorily complete this course.

(b) As a joint course by students in the College of Letters and Science who have qualified for entrance. The work of the Library Course is 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. Of the 20 credits of Library School work accepted by the University four may be counted toward an English major, if the candidate chooses that subject. This joint course leads to the degree of Bachelor of Arts from the University, and to the certificate of the Library School.

The satisfaction of the requirements for both the degree and the certificate, under this plan, will normally involve residence at the University for four years and one summer session.

Course of Study

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 thesis for joint course students will be under the direction of the university department in which the student chooses his major subject, and the bibliography included in it will be accepted by the Library School in satisfaction of its thesis requirements.

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 and the various sociological phases of library service. The course is intended for college graduates with special aptitude and personal qualifications for this type of library service who have a definite preparation in political science, economics, and sociology.

The instruction 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

For detailed statement of this course, see p 154.

Special Catalogue

Full information regarding the course of study is given in the special catalogue of the School which can be obtained from the Preceptor, Miss Mary Emogene Hazeltine, Library School, 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, manual and industrial arts, and physical education, playground and recreation supervisors, and high school librarians. This preparation rests upon a basis of sound general education and consists of the following parts: (1) special academic instruction in the subjects to be taught; (2) professional training by means of (a) departmental teachers courses, (b) courses in education and psychology, (c) educational practice, including observation of teaching under supervision, in the Wisconsin High School and in the Madison public schools, and the activities involved in the work of directed teaching as carried on in the Wisconsin High School.

Graduate courses in the various fields of education and opportunity for investigation and research are offered for teachers, administrators and supervisors who recognize the desirability of graduate study in addition to the four years of college work, and for those who are preparing to become teachers of education in county training schools, normal schools, and colleges.

Admission and Registration

(1) The completion of the first two years of college work in a college of the University, or its equivalent from other institutions, is required for regular admission and registration.

(a) Students who are candidates for the University Teachers Certificate must, in addition to the usual registration in one of the colleges, register in the School of Education at the beginning of the junior year.

(b) Each registrant must indicate, for the joint approval of the instructor in charge of a departmental teachers' course and the Director of the School of Education, the subject or subjects, preparation for the teaching of which is contemplated. In no case will more than three related subjects be approved (a major subject; a major and one minor subject; a major and two minor subjects).

(2) Students electing a teaching major in agriculture, in home economics, in manual, industrial or applied arts, or in physical education may be admitted and registered in the School of Education in their freshman and sophomore years.

Students who expect to complete the requirements of the School of Education and secure the University Teachers Certificate should report, at the beginning of the junior year, to the office of the Director of the School (Room 123, 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 pages 103ff. Transfer records from such institutions, together with records of high school work on blank forms provided by the University, should be submitted to the Committee on Advanced Standing in advance of the opening of the University.

Degrees

The School of Education forms administratively a part of the College of Letters and Science. Registrants in the School of Education retain their registrations in the College of Letters and Science, or, in the case of those qualifying to teach agriculture or home economics, in the College of Agriculture, and receive upon graduation the degree to which their entrance credits and college credits entitle them. In addition, upon fulfilling the requirements outlined below, they receive the University Teachers Certificate.

Students who complete the requirements of either of the four-year courses in manual arts receive the degree of Bachelor of Science (Manual Arts) and those who complete the four-year course in physical education receive the degree of Bachelor of Science (Physical Education).

Requirements for Graduation from the School of Education and for the University Teachers Certificate

Graduation from the School of Education and the recommendation for the University Teachers Certificate is based upon the following conditions and requirements:

I. A total of 124 credits exclusive of physical training and military drill.

II. The satisfactory fulfillment of the requirements of preparation for teaching of either:

1. (a) a major subject, or
   (b) a major subject and one minor subject, or
   (c) a major subject and two minor subjects.

   To fulfill the requirements of preparation for teaching the selected major a student must present credits in amount and kind as prescribed by the department of such major subject. This departmental prescription must in all cases include at least twenty credits, and, in addition, credit for the departmental teachers course. (See departmental professional requirements, pp. 224ff., for the credit requirements prescribed by the different departments.)

   To fulfill the requirements of preparation for the teaching of the selected minor subject or subjects, a student must present credits in amount and kind as prescribed by the department of such minor subjects. This departmental prescription must contain ten credits, exclusive of the departmental teachers course.

2. The completion of the special requirements of the courses in agriculture, home economics, manual arts, and physical education.

III. The recommendation of the departments of the major and minor subjects, or of the responsible authorities of the special courses, as to fitness for teaching.

IV. The presentation of a certificate of physical health and fitness from the University Medical Examiner.

V. The completion of the following professional requirements:

Psychology (Philosophy 1)	3 credits
Educational Psychology (Education 41) or Mental Development (Education 11)	3 credits
Principles of Education (Education 31)	3 credits
Technique of Education (Education 90)	2 credits
Departmental Teachers Course	2 credits
Educational Practice (Education A)	2 credits
	15 credits

(a) The course in Psychology (three credits) shall be taken ordinarily in the sophomore year.

(b) The course in Educational Psychology or Mental Development, and Principles of Education shall be taken ordinarily in the junior year, and the remaining required courses in the senior year.

(c) The minimum of two credits in the departmental teachers' course of the major subject must be secured by all students. The requirements of two additional credits for the departmental teachers course in the major and two credits for the departmental teachers courses in the minor subject are at the option of the department. Only two of the credits earned in the departmental teachers courses of the major subject shall be included in the maximum of forty credits allowed for a major toward a bachelor's degree.

(d) Credit for Education A (Educational Practice) may be acquired during the first or the second semester of the senior year.

VI. Graduates of the professional courses in the State Normal Schools who register in the School of Education as candidates for the University Teachers Certificate must present a minimum of six credits in advanced university courses in education, together with the departmental teachers course in their major. Under exceptional circumstances another course may be substituted for the departmental teachers course.

VII. Graduates of the Long Course in Agriculture, graduates receiving the B. S. degree in Home Economics, graduates of the Mid-

dle 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 p. 251; Home Economics, p. 253; Music p. 248.

State Teachers License

Upon the fulfillment of the foregoing requirements a student will be recommended by the Director of the School to the President of the University, to receive the certified statement prescribed by section 458b—2 of the Laws of Wisconsin, as amended by chapter 514, Laws of 1913. This certified statement, indicating the subject or subjects, the requirements for the teaching of which have been fulfilled, when presented to the State Superintendent, entitles the holder to receive a license to teach for one year in any public school in Wisconsin. Graduates who have received this University Certificate and who present satisfactory evidence of good moral character and two years of successful teaching after graduation are entitled to receive from the State Superintendent an unlimited state certificate.

It may be noted that the requirements for the University Teachers Certificate are in advance of the minimum fixed by law for a license to teach. The legal professional requirement is twelve hours in psychology and education. However, attention is called to the fact that the minimum requirement of the North Central Association is eleven hours in education. Information concerning the provisions of the law may be obtained from the office of the State Superintendent of Public Instruction, or from the office of the Director of the School of Education.

Wisconsin High School

The Wisconsin High School, a six-year secondary school, was opened in September, 1911, and is maintained by the University as an integral part of the School of Education. The primary purposes of this school are (a) the exemplification of sound educational theory and organization, with special reference to secondary education, and (b) the provision of appropriate facilites for observation and directed teaching.

The details of the organization, program of studies, etc., of the Wisconsin High School will be found in the Bulletin of the School of Education.

Departmental Professional Requirements

Only such departments and courses of instruction are here indicated as are immediately related to the professional work of the School of Education. The announcements of the several departments and colleges of the University should be consulted for more extended and detailed information regarding the courses of instruction open to students who intend to teach.

Agriculture

See pp. 251ff.

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, 105, 106, 110, 129, 130, 146, 147, 150.

Minor. A minimum of ten credits in addition to course 90, selected from the following courses: Botany 1, 2, 103, 104, 105, 106, 110, 129, 130, 146. Attention is called to courses 1 and 2, which together constitute a year's work and are especially adapted to the needs of those taking a teachers minor in botany.

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

Chemistry

Major. A minimum of thirty credits, including courses 1, 120 (first semester), 11 (at least five credits), and 130 (five credits).

Minor. A minimum of ten credits.

Departmental Teachers Course. Chemistry 90. The Teaching of Chemistry. II; 2 cr. Prerequisite: major requirements above indicated. Course 11 may be taken simultaneously. Mr. Walton.

Commerce

The Course in Commerce affords certain facilities for those students who wish to prepare themselves to teach commercial subjects in secondary schools. Such students are advised to consult with the director of the Course in Commerce in the arrangement of elective work. Special facilities for pedagogical practice will be given such

students in connection with the accounting laboratories, and work in addition to that prescribed may be arranged in subjects of especial importance to teachers.

Drawing

See Manual 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. 149ff. For detailed information relative to the special requirements of courses in education for the University Teachers Certificate see pp. 241ff.

English

Major. A minimum of twenty-eight credits, in addition to the thesis, and exclusive of courses 1a and 1b (required of all students). The twenty-eight credits must include courses 30, 90a, 90b, 120a or 123, and one course from each of the following groups: 36 or 137; 34, 35, or 40. A total of thirty-six credits, in addition to the thesis and courses 1a and 1b, may be taken. Students who have had an adequate training in Latin or Greek (usually six years of Latin or four of Greek) may substitute some other English course for 120a or 123.

Minor. A minimum, in addition to courses 1a and 1b (required of all students), including course 30, 90a, and an advanced composition course in the sophomore or junior year (2, 3a and 3b, 5, or 6), and one of the following groups: (a) 34 and 35; (b) 36 or 137; (c) 40.

Departmental Teachers Courses. English 90a. The Teaching of English. I; 2 cr. Mr. Leonard.

English 90b. The Teaching of English. II; 2 cr. Mr. Leonard.

French

See Romance Languages.

Geology

See Physiography and Geography.

German

Major. A minimum of twenty-four credits in advance of course 2b. In addition to the thesis, these twenty-four credits must include courses 10 or 112, 90a, 90b, 130 or 131, 150 and 151. For the maximum number of credits that may be elected see p. 164.

Minor. Courses 10 or 112, 90a, and at least four credits in literature from courses 21 to 28, 130 or 131.

Departmental Teachers Courses. German 90a. The Teaching of German. Methods. For seniors and graduates. I; 2 cr. Mr. Morgan.

German 90b. The Teaching of German. Phonetics. For seniors and graduates. II; 2 cr. Mr. Morgan.

Students who are preparing to teach German as their major or minor subject and have done a considerable amount of work elsewhere, or who have had successful teaching experience, may be excused, by action of the department, from some of the required work. Such excuse will generally be granted only on the basis of an examination, and in no case will students be recommended by the department unless they have taken at least four credits of work in the department.

Greek

Major. A minimum of twenty-four credits (not including course 7), in addition to the thesis.

Minor. A minimum of courses 10, 11 and 20.

Departmental Teachers Course. The Department of Greek does not offer a regular departmental teachers course. Latin 90 is recommended to candidates who desire to teach Greek.

History

Major. A minimum of thirty credits, of which at least sixteen must be in advanced courses and thesis, and in addition course 90a.

Minor. A minimum of sixteen credits in addition to course 90b. These sixteen credits must include at least four in advanced courses.

Departmental Teachers Course. History 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. 253ff.

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. I (required); 2 cr. Miss Sabin.

Latin 190. Advanced Course in the Teaching of Latin. The background of high school Latin adapted to the needs of the classroom. II (elective); 2 cr. Miss Sabin.

Library Science

The Library School offers for those who are qualifying themselves for positions as high school librarians the following course:

Library Science for Teachers. Yr.; 4 cr. The object of the course is to qualify those taking it to assume, in connection with instructional duties, the supervision of high school libraries, and to qualify them also to give instruction to high school students in the use of books and libraries, and in the means and methods of developing good habits and right tastes in reading. Open only to juniors and seniors. Miss Hazeltine, Miss Turvill, Mrs. Davis, and other members of the staff of the Library School.

Manual Arts

See pp. 255ff.

Mathematics

Major. (a) A minimum of courses 5 and 6, and 112, or 113, or 115, and the courses that necessarily precede them; (b) course 90b is open to those who offer mathematics as a major, and is recommended as a desirable course for the junior year; (c) a knowledge of solid geometry obtained in the secondary school or elsewhere.

Minor. (a) A minimum of twelve credits from courses 1 to 7, 51, 52, 71, 115 in mathematics and course 3 (Descriptive Geometry) in drawing. Six of these credits must be earned in residence at the Uni-

versity of Wisconsin, with a grade of at least fair; (b) course 90a is required of all who offer mathematics as their principal minor; course 90b is open to such students and is recommended as a desirable course for the junior year; (c) a knowledge of solid geometry obtained in the secondary school or elsewhere.

Departmental Teachers Courses. Mathematics 90a. The Teaching of Mathematics. I; 2 cr. Mr. Hart.

Mathematics 90b. The Content of Secondary Mathematics. II; 2 cr. Mr. Hart.

Music

While the completion of the four-year course leading to the degree of Bachelor of Music, with a major in Public School Music gives the broadest training for the constantly enlarging field of this branch of teaching, students satisfactorily completing the Two-Year Course for Supervisors of Music will be entitled to a recommendation to the State Board of Examiners to receive a special state license to teach music in the public schools of the state. This recommendation will be issued by the Director of the School of Education, provided (a) that the student registers in the School of Education at the beginning of the first year of residence; (b) that the student has earned special credits as follows: psychology (Philosophy 1), 3 cr.; Education 6, 11, 31, 41, or 90, 3 cr.; (c) that the student presents a statement from the Director of the School of Music as to general fitness for teaching.

Philosophy

The following course must be completed by all students fulfilling the requirements of the School of Education.

Philosophy 1 (psychology). Introductory course. I or II; 3 cr. Sections 2, 3, and 4 of this course have been designated as satisfying the requirements for the University Teachers Certificate.

Physical Education

See pp. 260ff.

Physics

Major. A minimum of twenty credits in approved courses.

Minor. A minimum of ten credits in approved courses.

Departmental Teachers Course. Physics 90. The Teaching of Physics. II; 2 cr. Mr. Steve.

Physiography and Geography

Major. A minimum of twenty credits in approved courses in the Department of Geography including course 90.

Minor. A minimum of twelve credits in approved courses in the Department of Geography including course 90.

Departmental Teachers Course. Geography 90. The Teaching of High School Geography. II; 2 cr. Miss Loft.

Physiology

The Departments of Anatomy, Physiology, Bacteriology and Hygiene, acting conjointly, have outlined the following as a preparation for teaching human physiology.

Major. A minimum of twenty-three credits in the following courses: Physiological Chemistry 104 (prerequisite: organic chemistry), 4 cr.; Anatomy 105 (prerequisite: Biology 1), 3 cr.; Anatomy 115, 2 cr.; Physiology 105, 9 cr.; Bacteriology 102, 5 cr.

In order to fulfill these requirements, Physics 1 or 1Sc, Chemistry 1, and Biology 1, should be completed before the beginning of the junior year.

Minor. A minimum of eleven credits in the following courses: Physiology 1 and 2, 4 cr.; Hygiene 1, 2 cr.; either Bacteriology 1 or 4, 5 cr. General chemistry is strongly advised before taking physiology or bacteriology.

Minor. Special requirements for home economics students: Physiology, 3 cr.; Hygiene, 2 cr.; Bacteriology, 5 cr.

Romance Languages

FRENCH

Major. A minimum of twenty credits in advance of second-year French. The following courses are required: 90, 190, four credits in composition and conversation, and at least six credits in French literature.

Minor. A minimum of twelve credits in advance of second-year French. At least two credits in composition and conversation and at least three credits in some general course in French literature must be taken.

SPANISH

Major. A minimum of twenty-two credits in advance of Spanish 1. The following courses are required: 90, and at least two credits in composition or conversation.

Minor. A minimum of ten credits in advance of second-year Spanish. At least two credits in composition and conversation must be included.

Departmental Teachers Courses. French and Spanish 90. Theory and Practice of Teaching. I or II; 2 cr. Mr. Smith, Miss Johnson.

French 190. Pronunciation and Phonetics. I or II; 2 cr. Mrs. Greenleaf.

Speech

Major. A minimum of twenty credits in addition to the thesis and courses 190a and 190b.

Minor. A minimum of sixteen credits in approved courses.

Departmental Teachers Courses. Speech 190a. Seminary in Teachers Problems. (Open only to graduates and senior major and minor students in speech. I; 2 cr. Mr. Weaver and staff.

Speech 190b. Seminary in Teachers Problems. (Open only to graduates and senior major and minor students in speech). II; 2 cr. Mr. Weaver and staff.

Zoology

Major. A minimum of twenty credits from the following courses: Zoology 1a, 1b, 9, 11, 19, 102, 104a, 105. In special cases other courses may be substituted by permission of the chairman of the department.

Minor. A minimum of ten credits from the following courses: Zoology 1a, 1b, 9, 102a, 104a. Attention is called to courses 1a and 1b which together constitute a year's work and are especially adapted to the needs of those taking a minor in zoology.

Departmental Teachers Course. Zoology 90. The Teaching of Zoology. II; 2 cr. Miss Weber.

Courses for Teachers of Special Subjects

The University of Wisconsin has for many years provided technical and professional training for teachers of special subjects such as agriculture, home economics, physical education, and the manual and industrial arts.

The courses in agriculture and in home economics are given in the College of Agriculture. Students who are planning to teach these subjects, and to qualify for the University Teachers Certificate, should register in the School of Education at the beginning of the

junior year. Detailed information concerning all the courses offered can be found in the University catalogue or in the special bulletins of the College of Agriculture.

The courses in manual arts and physical education are given in the School of Education of the College of Letters and Science. They have been revised and extended to meet the changing needs in industrial education.

AGRICULTURE

Two types of University Certificate 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 Superintendent. Students registered in the School of Education who fulfill the following requirements in education, and receive the approval of the College, will receive both certificates.

Courses	Credits
Philosophy 1 (Psychology)	3
Education 41 (Educational Psych.) or Education 11 (Mental Development)	3
Agricultural Education (course1)	3
Education 90 (technique)	2
Departmental Teachers Course	2
Education A	2

Registered and approved students who fulfill the following requirements in education shall be entitled to the special certificate only.

Courses	Credits
Philosophy 1 (Psychology)	3
Agricultural Education (course 1)	4
Education 90 (technique)	2

Departmental Teachers Courses	Credits
Animal Husbandry 128	2
Agronomy 140	2
Education A	2

Graduates of the Middle Course in Agriculture, properly registered in the School of Education at the beginning of the second year, will be recommended by the Director of the School of Educa-

tion to receive a special license to teach agriculture in the schools of Wisconsin, upon exhibiting evidence of personal fitness for teaching and upon the satisfactory completion of Education 11, 31, 41, or 90 for two credits, Agricultural Education 1 for four credits, Agronomy 140 for two credits, and Animal Husbandry 128 for two credits.

It is suggested that the student select his electives from the following groups:

First Semester	Credits	Second Semester	Credits
Agronomy 120	3	Horticulture 3	3
Agricultural Engineering 2	2	Poultry 2	2
Economic Entomology 101	3	Soils 2	3
Veterinary Science 3	2	Veterinary Science 2	2
		Agricultural Economics 10	3

Agricultural Education

Course 1 in agricultural education is required of students in the College of Letters and Science registered in the School of Education with a minor in agriculture and of those in the College of Agriculture who take the courses for the training of teachers of agriculture.

For Undergraduates

1. Agricultural Education. II; 4 cr. Origin and development with special reference to the teaching of agriculture in elementary and secondary schools; methods of teaching secondary agricultural subjects. Mr. James, Mr. Tiffany.

5. Boys' and Girls' Club Work. I; 2 cr. Place of boys' and girls' clubs in rural education. For prospective extension workers and teachers. Mr. Bewick.

For Undergraduates and Graduates

103. Seminary. Yr.; cr to be arranged. Mr. Hatch, Mr. James, Mr. Tiffany.

103S. Agricultural Extension Methods and Problems. 2 cr. Mr. Hatch.

105S. Vocational Agriculture. 2 cr. Types, methods of instruction and results of secondary vocational agriculture; adjustments to meet economic and social conditions in different sections of this country; national system education and the plans of different states for secondary and teacher training development; courses of study, equipment, methods of instruction, directed practice in agriculture and its supervision; the Smith-Hughes Law. Mr. James.

110. Training Course for County Agents. II; 2 cr. Development and administration of the county agent system. Open to seniors and graduate students. Mr. Hatch.

200. Special Problems (Research). Cr. to be arranged. Mr. Hatch, Mr. James.

Thesis. Yr.; 2 cr. Original work on problems of agricultural extension or teaching. Mr. Hatch, Mr. James, Mr. Tiffany.

Special Teachers Courses

Animal Husbandry 128. The Teaching of Animal Husbandry. I; 2 cr. Department of Animal Husbandry. Mr. James.

Agronomy 140. The Teaching of Plant Production. II; 2 cr. Department of Agronomy. Mr. Mortimer.

HOME ECONOMICS

The Department of Home Economics is connected with the College of Agriculture for administrative purposes and the faculty of this college gives instruction in certain subjects, such as food, chemistry, and bacteriology.

The faculties of the various other colleges, schools, and courses of the University give instruction in certain required and elective subjects offered to students taking the Course in Home Economics.

Courses are provided for various classes of students, including those who are preparing to teach home economics in secondary schools and in higher institutions, and those who are preparing to teach the vocation of home making in the vocational and continuation schools of the state.

Degree

The degree of Bachelor of Science (Home Economics) is conferred upon those who complete 120 credits, of which thirty-five to forty-three are in home economics. 120 grade points are required for graduation. (124 credits are required for the University Teachers Certificate.)

General Course in Home Economics

See pp. 309ff.

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. 314ff.

The requirements for a major in home economics are not less than twenty-five credits nor more than thirty credits in strictly home economics 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. 311ff. and in the Home Economics departmental bulletin.

Requirements for the University Teachers Certificate, Home Economics

Major. In the general major, the food major, the textile major, or the vocational major, the minimum requirements in home economics subjects taken during the junior and senior years are twenty-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
Psychology (Philosophy 1)	3
Educational Psychology (Education 41) or Mental Development (Education 11) or Humanics (Home Economics 109)	3
Principles of Education (Education 31)	3
Technique of Education (Education 90)	2
Departmental Teachers Course	2
Educational Practice (Education A)	2
	15

Minor. A minimum of fifteen to twenty credits. A minor may be taken in foods, textiles or housing problems.

(1) A teaching minor in foods must include the teachers course, in addition to Home Economics 1a, 3, 4, and such other related courses as to make fifteen to twenty credits in strictly home economics subjects.

(2) A teaching minor in textiles must include the teachers course, Home Economics 2, 5, 50, 11, and other courses in home economics to complete twenty credits.

(3) The housing minor is offered to students majoring in sociology in order that those intending to do social settlement work, or social welfare work, will have a broad foundation knowledge of the funda-

mental problems in housing. Home Economics 1a, 1b, 70, 74, and 123 are included in the minor.

Departmental Teachers Courses. Home Economics 121. The Teaching of Home Economics in High Schools. Prerequisite: a major or minor in home economics. 2 cr. Miss Dodge, Miss Comstock.

Home Economics 124. Vocational Education in Home Making. History and Methods. 2 cr. Miss Arbogast, Miss Marlatt.

MANUAL ARTS

See also Department of Manual Arts, p. 177.

The Department of Manual Arts, in cooperation with allied departments, aims to reach three principal classes of students: first, those for whom the teaching of manual arts is a major subject; second, those who desire to make the teaching of some aspect of the work a major or a minor subject; third, students for whom such courses as those announced may constitute part of a program of liberal study.

The Department of Manual Arts conducts courses in the several lines of shop work, drawing and design taught in public high schools, and in related matters such as organization and maintenance, literature, supplies and equipment. The department is the center in the University for the study of vocational industrial education and the applied arts. Cooperation with several allied departments is maintained.

Adequate facilities for all laboratory courses are made possible by the use of the full equipment of the shops, laboratories, and drawing rooms of the College of Engineering, in addition to that devoted exclusively to the use of the Department of Manual Arts. The Wisconsin High School through its Department of Manual Arts furnishes a laboratory for directed teaching.

The Applied Arts Laboratory is conveniently equipped for lower grade construction work, design, and applied design in clay and art metals. A large and well-lighted room on the first floor of the Biology Building is used for work in freehand drawing.

Courses announced are open to election by all students, subject to the general university and special college regulations governing elections.

Courses of Study

I. Four Year Course for Those Preparing to Teach Industrial and Related Technical Subjects.

Leading to the degree of B.S. (Manual Arts.)

Freshman

First Semester	Credits	Second Semester	Credits
English	3	English	3
History or Language	3–4	History or Language	3–4
Mathematics	3	Mathematics	3
Mechanical Drawing	3	Mechanical Drawing	3
Departmental	3	Departmental	3
Total	15–16	Total	15–16

Sophomore

Mathematics (Analy. Geom.)	3	Descriptive Geometry	3
Physics or Chemistry	5	Physics or Chemistry	5
Freehand Drawing	3	Freehand Drawing	3
Departmental	3	Departmental	3
Electives	2–4	Electives	2–4
Total	15–16	Total	15–16

Junior

Psychology (Philos. 1)	3	Education (Course 31)	3
Education (Course 11 or 41)	3	Departmental	7–10
Departmental	6–9	Electives	5
Electives	3		
Total	15–16	Total	15–16

Senior

Education (Course 90)	2	Departmental	9–11
Educational Practice (Education A)	2	1. Teach. and Supv. of Special Subjects	2–3
Departmental	7–9	2. Organ. and Adm.	2
1. Psychol. of Teach. Arts and Indus. Subjects	2	3. Tests and Measurements	2–3
2. Organ. and Adm.	2	4. Thesis	2
3. Thesis	2	Electives	5 5
Electives	4		
Total	15–16	Total	15–16

Note: Requirement for graduation, 124 credits.

Departmental Electives For Course I, Indexed to Indicate Possibilities For Specialization

1. Mechanical drawing; 2. Woodwork; 3. Metalwork; 4. Printing; 5. Related technical subjects (mathematics, science, drafting in vocational schools); 6. Manual and industrial arts in junior high schools; 7. General or supervisory, public schools; 8. Junior executive, trades and industry.

The numbers after the subjects listed below refer to the appropriateness of that subject for accomplishing the specialization of the subject having a similar number. Before any given subject is placed on the study card the student must examine the course description, noting, first, whether the course is given the year he elects to take it, second, whether he has the necessary prerequisites. For example: One interested in Mechanica Drawing as a subject of specialization would consider, in determining his manual arts electives, all courses listed below which have a figure (1) affixed.

First Semester Courses	Second Semester Courses
Machine Drawing 1, 3, 5, 7	Archt. Drawing 1, 2, 5, 7
Bench Woodwork 2, 5, 7	Cabinet Constr. 2, 5, 7
Carpentry 2, 5, 7	Woodturning 2, 7
Pattern Making 2, 5, 7	Pattern Making repeated
Advanced Pattern Making 2	Adv. Pattern Making repeated
Machine Shop 3, 5, 7	Machine Shop repeated or continued
Sheet Metal 1, 3, 5, 7	Electrical Constr. 3, 5, 7
Foundry 3, 5, 7	Foundry repeated
Art Metal 3, 6, 7	Forge 3, 5, 7
Modeling 6	Art Metal, cont'd
Pottery 6, 7	Applied Design in Wood 2, 6, 7
Design 1, 2, 3, 4, 5, 6, 7	Pottery cont'd
Commercial Art 4, 5, 7	Design cont'd
Job Analysis 1, 2, 3, 4, 5, 6, 7, 8	Comericial Art, Cont'd
Trade Analysis and Curricula Construction 1, 2, 3, 4, 5, 7, 8	Elem. Handwork 6, 7
Teaching Related Tech. Subjects 5, 7, 8	Vocational Educ. 1, 2, 3, 4, 5, 6, 7
The Continuation School 1, 2, 3, 4, 5, 6, 7	Foremanship 1, 2, 3, 4, 5, 6, 7, 8
Shop Planning and Installation 1, 2, 3, 4, 5, 6, 7, 8	Seminary Cont'd
Seminary 1, 2, 3, 4, 5, 6, 7, 8	

Electives From Other Departments or Colleges For Course I

Other departments or colleges offering courses closely related to specialization interests enumerated above follow: The numbers after the department or college name refer to the specialization interest. They are not course numbers. (See note above). Courses outside the college in which a student is enrolled cannot be elected before the student's junior year.

Education 1, 2, 3, 4, 5, 6, 7, 8; Economics 1, 2, 3, 4, 5, 6, 7, 8; Chemistry 5; Mathematics 5; Physics 5; Forestry 2, 5; Physical Geology 3; Journalism 4, 8; Speech 1, 2, 3, 4, 5, 6, 7; Physical Educ. 1, 2, 3, 4, 5, 6, 7; Engineering College 1, 2, 3, 5, 7, 8.

II. Four Year Course for Those Preparing to Teach Public School Drawing, Design, Commercial Art, and Craft Work.

Leading to the degree of B.S. (Manual Arts.)

Freshman

First Semester	Credits	Second Semester	Credits
English	3	English	3
History or Language	3	History or Language	3–4
Mathematics, Biology, or Chemistry	3–5	Mathematics, Biology, or Chemistry	3–5
Departmental	3	Departmental	3
1. Modeling	3	1. Woodworking	3
Freehand Drawing	3	Freehand Drawing	3
Total	15–16	Total	15–16

Sophomore

First Semester	Credits	Second Semester	Credits
English 30 or 2	2–3	English 30 or 2	2–3
History or Language	3	History or Language	3
Departmental	3–5	Departmental	3–5
1. Applied Drawing and Painting	2	1. Applied Drawing and Painting	2
2. Design: Line and Form	3	2. Design: Surface Enrichment	3
Mechanical Drawing	3	Mechanical Drawing (Architectural)	3
Electives	5	Electives	5
Total	15–16	Total	15–16

Junior

Psychology (Philos. 1)	3	Education (Course 31)	3
Education (Course 11 or 41)	3	Departmental	7–10
Departmental	6–9	1. Art Metal	3–4
1. Art Metal (Jewelry)	3	2. Pottery	3–4
2. Pottery	3	3. Commercial Art	3
3. Commercial Art	3	4. Elem. Construction Work	3
Electives	4	Electives	6
Total	15–16	Total	15–16

Senior

Education (Course 90)	2	Departmental	9–11
Educational Practice (Education A)	2	1. Supervision and Teaching of Special Subjects	2–3
Departmental	7–9	2. Org. and Adm.	2
1. Psychol. of Teaching Arts and Industrial Subjects	2	3. Vocational Education and Guidance	2
2. Org. and Adm.	2	4. Advanced Design	2–3
3. Art Structure	2–3	5. Tests and Measurements	2
4. Experimental Design	2–3	6. Thesis	2
5. Thesis	2	Electives	7
Electives	5		
Total	15–16	Total	15–16

Note: Required for graduation, 124 credits.

Electives From Other Departments or Colleges for Course II

Other departments or colleges offering courses closely related to specialization interests follow: COLLEGE OF LETTERS AND SCIENCE: Fine Arts 122, Economics 15 (Retail Advertising), Philosophy 51 (Aesthetics), Public Speaking; COLLEGE OF ENGINEERING: City Planning 101; COLLEGE OF AGRICULTURE: Horticulture 6 (Landscape Gardening), Home Economics 8 (Household Decoration), 74 (Decoration of the Home), 95 (Weaving), 94 (Applied Design).

Electives indicated in either of the four-year courses of study may be made from subject courses administered by the Department of Manual Arts if professional requirements so demand. In no case shall the total number of credits for Manual Arts subjects, exclusive of six credits for drawing, exceed one-half the total number of credits earned by a student and accepted in fulfillment of the requirements for graduation.

It is understood that present university rules on electives shall control in the election of subject-courses included in each of the four-year courses of study for those not registered for either of them.

Two-Year Course for Graduates of an Industrial Normal School

Leading to the degree of B.S. (Manual Arts.)

The conditions governing the administration of the four-year course in Manual Arts shall control in the administration of this course except as follows:

(a) Transfer of credit for academic subjects shall be under existing university regulations.

(b) Transfer of credit for industrial arts and vocational education subjects shall be made upon the basis of the recommendation of the Department of Manual Arts which shall use in this evaluation *The Evaluation Standards of the Central States Conference of Directors and Supervisors of Manual Arts.*

(c) Without interfering with standards as herein prescribed, transfers of credit shall be made, if possible, to permit a student who has completed the work of an accredited four-year high school and, in addition, two years of approved work in an industrial normal school or an institution of normal or college grade, to graduate in two years. The two-year course is to be determined for each registrant by choosing from the appropriate Four-Year Course of Study in Manual Arts those subjects for which he does not have credit or which he has not pursued.

Smith-Hughes Courses for Those Who Desire to Teach Trades and Industry or the Related Subjects as Prescribed by State and Federal Laws

The Department of Manual Arts will administer courses in accordance with state and national prescriptions in the training of teachers of trade and industry. At different times in the past the department has been instrumental in organizing special groups of mechanics in order to assist them, by means of short courses, to prepare for teaching in Wisconsin continuation schools or other voca-

tional or trade schools. Under the new organization the department will, if possible, organize similar classes to be given instruction in accordance with the provisions of the Smith-Hughes law and those for the Wisconsin State Board of Vocational Education.

For several years the University of Wisconsin, through the agency of the Department of Manual Arts, acting for and with the Extension Division of the University, has conducted evening courses of study in Milwaukee, Wisconsin, for tradesmen preparing to teach industrial subjects. The department is prepared to continue this work, to modify it to conform to Smith-Hughes requirements, and to assist in the organization and conduct of similar instructional work in other Wisconsin centers. In doing this it will not seek to set up an independent organization, but will endeavor to cooperate in any way possible with local agencies, the Wisconsin State Board of Vocational Education, and the Federal Board of Vocational Education.

A registrant for courses given under the heading of *Vocational Courses for Teachers of Trade and Industry* shall be admitted as a special student. Upon the completion of any unit of work or prescribed special course, he shall receive a certificate specifying his accomplishment.

Graduate Work

Independently, and in conjunction with the Department of Education and allied departments, ample opportunity will be afforded for graduate study leading toward the advanced degrees.

It is recognized that a department in a University School of Education, equipped to train teachers of manual, industrial, and applied arts, should aim to encourage and aid graduate study in the field of industrial and vocational education. This perhaps should be its chief mission.

In the School of Education every possible effort will be made to offer courses and provide the necessary means for advanced study and experimentation for purposes of developing the required knowledge and ability necessary for positions of leadership.

Physical Education

For further information see Department of Physical Education, page 400.

Professional courses for teachers of physical education and for directors of play and recreation were organized at the beginning of the year 1911–12. The course is designed to provide a four-year

professional preparation for those preparing to become instructors in physical education or directors of playgrounds and recreation centers. Provision is also made for students who desire to do their minor work in physical education in preparation for combining leadership in physical education activities with academic subjects in the high school, for students who desire a familiarity with the problems of physical education as a part of their equipment as principals or superintendents in public schools or for positions as directors of social centers, and for students desiring academic courses in physical education as a part of a liberal education.

Four Year Course in Physical Education

Leading to the degree of B.S. (Physical Education)

Freshman

First Semester	Credits	Second Semester	Credits
English	3	English	3
Language	4	Language	4
Physics	5	Zoology 1B	5
History or Math	3	History or Math	3
Phys. Ed. 20 (req.)		Phys. Ed. 20 (req.)	
Total	14–16	Total	14–16

Sophomore

Chemistry	5	Chemistry	5
Psychology (Philos. 1)	3	Language or Elective	3
Language or Elective	3	Anatomy	6
Hist. and Prin. Phys. Ed.	3	Spec. Tech	1
Spec. Tech	1	Elective	1
Elective	1	Phys. Ed. 20 (req.)	
Phys. Ed. 20 (req.)			
Total	14–16	Total	14–16

Junior

Kinesiology	3	Physiology 115 (gen.)	7
Physiology 114 (Physiol. Chem.)	3	Hygiene	2
Nature and Function of Play	3	Spec. Tech	3
Spec. Tech	3	Education (Course 90 or 41)	2 or 3
Education (Course 41 or 11)	3	Phys. Ed. 20 (req.)	
Elective	2		
Phys. Ed. 20 (req.)			
Total	14–16	Total	14–16

Senior

First Semester	Credits	Second Semester	Credits
Physiology 116 or Phys. of Exercise	3	Phys. Diagnosis	3
Teaching and Adaptation	3	Therapeutics and Phys. Exams	2
Therapeutics and Physical Exams	2	Phys. Ed. 19 (Practice Teaching)	1
Phys. Ed. 19 (Practice Teaching)	1	Organization and Administration	2
Thesis	2	Thesis	2
Elective	3 or 5	Elective	3 or 5
Phys. Ed. 20 (req.)		Phys. Ed. 20 (req.)	
Total	14–16	Total	14–16

ELECTIVES IN PHYSICAL EDUCATION

Scouting (Theory and Practice)	2	First Aid	1
Special Technique	2	Public Recreation	2

A. The total number of credits required for graduation is 124.
B. The degree conferred is B.S. in Physical Education.
C. Students who present two units of foreign language or less are required to secure 14 credits in one language. Students who present four units are required to secure eight credits in one language.
D. Special Technique above refers to teaching methods in physical training and athletics.

Minor

Students electing physical education as a minor subject must take courses 20 (for two years), 55, 59 (three credits each), and 21–50 (four credits); a minimum of ten credits. Physical Education 19 may also be required. Additional credits may be secured in courses 16, 21–50, 68, 71, 80, and 90, but the total credits shall not exceed twenty. Prerequisites are zoology or chemistry, Physiology 1 and Philosophy 1. For graduation requirements of students taking this minor consult the Director of the School of Education.

Departmental Teachers Course. Principles of Teaching and Adaptation. (Physical Education 90). I; 3 cr. Miss Trilling.

Fellowships

Two resident fellowships, with an annual value of $500 each, are provided in the School of Education. These fellowships are assigned by vote of the Faculty of the School of Education to graduate students who are interested primarily in the problems of teaching subjects that come within the scope of the School of Education.

The purpose of the fellowships is to encourage advanced work toward higher degrees by students who expect to take charge of special teachers' courses in normal schools, colleges and universi-

ties. They are not primarily designed for University students of the current graduating class who are preparing to teach in the secondary schools. The holders of these fellowships are expected to do graduate work in the departments concerned and in the Department of Education. It is expected that the research work will be under the joint supervision of the Director of the School of Education and the adviser selected in the department in which the fellowship is assigned. The University receives calls for trained teachers of special methods courses, and the fellowship plan contemplated here is primarily to encourage graduate students of experience who are interested in pedagogical problems.

Further information concerning these fellowships may be obtained from the Director of the School of Education.

Industrial Scholarships

For the purpose of encouraging advanced study and special professional preparation for teaching in industrial vocational schools, the Regents have established four industrial scholarships to be awarded to senior or graduate students in the University of Wisconsin. Each scholarship has an annual value of $200. Appointment is for one year and is made upon the joint recommendation of the chairman of the Department of Manual Arts and the Director of the School of Education.

Further details concerning these scholarships may be obtained from the Chairman of the Department of Manual Arts.

Special Industrial Scholarships

Each year the Department of Manual Arts conducts what is known as the Mechanics Institute. This institute is composed of the holders of special industrial scholarships. The Regents of the University have established twelve of these scholarships for the purpose of encouraging skilled craftsmen to prepare to teach industrial arts in public schools, especially public continuation schools. Each scholarship entitles the holder to an honorarium of $60, paid at the conclusion of the institute which is held for eight weeks, usually during the months of April and May. Detailed information relative to the requirements for appointment to the special industrial scholarships and to the work of the Mechanics Institute will be furnished upon request to the Chairman of the Department of Manual Arts.

Special Lectures

In order that the School of Education may be maintained and developed in close relation with the practical educational interests of the state, the University arranges, from time to time, for special lectures by presidents and professors of normal schools, superintendents, principals, and others engag d in educational work.

Relations With Madison Public Schools

By the terms of a formal agreement entered into by the Regents of the University and the Board of Education of the city of Madison, the classes of designated teachers in the Madison High School and specified elementary schools are open to students in the School of Educat'on for the observational study of teaching.

COLLEGE OF ENGINEERING

FREDERICK E. TURNEAURE, DEAN, PROFESSOR OF ENGINEERING.

Organization of the College

The College of Engineering is organized in the belief that a thoroughgoing fundamental training is the first essential to a successful engineer, but that this fundamental training may be best secured not alone by theoretical study, but by giving attention as well to the practical application of the principles involved. It is further a leading thought that after the fundamental principles have been mastered, a certain measure of specialization in the main lines of engineering is advisable. In carrying out this plan the mathematical and theoretical courses are made strong in the earlier years, and a limited number of professional courses are given in the later years, while the drawing and shop courses continue progressively from the beginning to the end. Those who desire to elect foreign language are given an opportunity to secure a reading knowledge of professional German, French, and Spanish literature. Special attention is given to the subject of English composition.

Requirements for Admission to the Courses Leading to the B.S. Degree

See pp. 92ff.

Preparation in Algebra for Engineering

All students entering the College of Engineering will be tested in algebra by class work and by an examination given shortly after the beginning of the first semester. It is essential that students in the engineering courses shall possess a good working knowledge of algebra *at the beginning of their course*, and it is the purpose of the test to secure this by requiring a review of the subject shortly before entering the University. Students failing in the test are not permitted to continue with regular freshman mathematics, but are required to

The College of Engineering Circular, giving detailed information concerning the College, may be obtained upon application to the Registrar of the University.

take a review of preparatory algebra during the first semester. A special course (for which no university credit is given) is provided for this purpose.

In performing the fundamental operations of algebra, such as multiplication and division, the use of parentheses, the solving of numerical and literal equations of the first and second degrees, the simplifications of fractions and radicals, and the putting of problems into equations, it is of the first importance that the student should have distinct notions of the meaning and reasons for all that he does, and be able to state them clearly in his own language. He should be able to perform all these operations, even though somewhat complex, with rapidity, accuracy, and neatness. In his preparatory studies the student is advised to solve a great many practical problems and to prescribe fully the reason for the steps taken.

Student Advisers

In the selection and arrangement of studies, all students are under the supervision of advisers. It is the duty of the advisers to issue class cards at the opening of each semester, admitting students to their classes, to receive the regular semester reports from instructors, and special reports on deficient students, and to report to the Faculty all cases requiring special action.

Reports to parents or guardians on the work of students are sent from the Registrar's office at the end of each semester.

Fees and Expenses

See pp. 65ff.

Equipment

Buildings

The main building of the College of Mechanics and Engineering contains the offices, recitation and drawing rooms, the engineering library, and laboratories for work in mechanical engineering, steam, and the testing of materials. A second building contains the electrical laboratories, 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 the Physics Building, and for language, mathematics, and other similar work, to the literary halls of the University.

In this way the students of engineering come into daily contact with the students in the other courses.

Libraries

For a general account of library facilities of the University see page 63.

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 course and fine crushers and disintegrators for treatment of ores and other raw materials. Magnetic, electrostatic, and other forms of separators are included in the equipment.

The applied electrochemistry equipment comprises a great variety of electrochemical appliances, a complete electroplating and refining room, an electric furnace room with various types of furnaces and sources of power, both alternating and direct, aggregating over 250 horsepower.

A complete equipment of base metal and platinum thermocouples, resistance thermometers, radiation and optical pyrometers, millivoltmeters, potentiometers, and furnaces are available for the testing of steels, refractory materials, ores, etc.

Metallographic microscopes of various types, furnaces, pyrometers, grinding and polishing machines, and photographic rooms

are installed for the study of the structure and effects of heat and mechanical treatment on metals and alloys.

The Electrical Laboratory equipment may be classified under the headings: Dynamo, Photometric, Electric Standards, High Tension, Telephonic, Radio, and General Research Equipment. Their equipment is unusually complete and every facility is offered for efficient work. The Department of Electrical Engineering cooperates with the Wisconsin Railroad Commission in the use of its laboratories for standardizing work.

The Hydraulic Laboratory, which occupies its own building is located on the shore of Lake Mendota. The facilities, therefore, are especially good for studying problems where large quantities of water under low heads are required. A 220,000 gallon concrete reservoir 60 feet above the laboratory on the bluffs supplies water under very steady heads. The university water works pumping station and pressure storage tank house, which immediately adjoins the hydraulic laboratory, provides a water supply under heads up to about 170 feet. The laboratory is unusually well equipped. It has a thirty-inch centrifugal pump furnishing up to 35,000 gallons per minute, five concrete measuring chambers with a total capacity of about 10,000 cubic feet, various weir boxes and weirs, pipes of different materials and sizes, Venturi, and meters of disc and piston type, turbines, overshot and tangential wheels, pumps of various types, including two air lift pumps, hydraulic rams, and a full supply of apparatus designed for experimental purposes.

The Machine Shop affords excellent facilities for mechanical practice. It embraces a main machine room properly equipped; a carpenter shop supplied with wood-working machines; a forge room provided with forges and their equipment, with blast and exhaust fan and annealing and case-hardening furnace; a foundry room whose equipment consists of a cupola, brass furnace, and core oven with the necessary small tools; a woodwork room supplied with benches, carpenter tools, and wood turning lathes; and a pattern room furnished with the requisite tools.

The Mining and Metallurgical Building contains about ten thousand square feet of floor space. The assay laboratories include a furnace room, a chemical laboratory, and a balance room equipped with all the important types of fire assay apparatus. The ore dressing laboratories include crushing, grinding, sizing, classifying, concentrating, and amalgamating equipment. The metallurgical equipment comprises special types of furnaces and testing apparatus, cyanide plant, pyrometers, and other acces-

sories; and the clay manufacturers laboratory is equipped with crushing and moulding machines, dryers and kilns. Special facilities are offered for research.

The Steam and Gas Engineering Laboratory is well equipped with a variety of steam and gas engines, specially arranged for experimental work, and for demonstration of the principles discussed in the classroom. One of the most important of these is a fifty-horsepower cross compound steam engine specially arranged for testing with either superheated or saturated steam. Another important item is a fifteen-ton refrigerating plant, consisting of a Corliss engine direct-connected to a horizontal double-acting ammonia compressor. With the above compressor there are installed double pipe condensers and brine coolers, brine tanks, and brine coils.

This laboratory also contains a twenty-five kilowatt steam turbine, a fifty-horsepower two-stage air compressor directly connected to a compound condensing engine equipped with the Meyer valve gear; also various other types of steam, gas, gasoline, and hot air engines, automobile engines, and gas producers, and a small vertical boiler and engine. A 150 H. P. electro-dynamometer of the latest type and equipment is worthy of particular mention. This is suitable for testing automobile and similar engines at any speed up to 3500 revolutions per minute. Special equipment has recently been completed for the measurement of air by a number of different methods. A very complete apparatus for testing the efficiency of shaft bearings of various types has been built in the college shops and is now used by students in regular laboratory courses. The equipment of the University Heating Plant, the Capitol Heating Plant, and the plant of the Madison Gas and Electric Company, are available and are used by the students as part of their regular laboratory work.

Transmission dynamometers, belt testing machines, gear transmission, friction testing machines, etc., are provided for experimental work in the transmission of power.

Excellent facilities are also provided for carrying on engineering research. Special facilities are available to graduate students who wish to pursue advanced research.

The Surveying Laboratory contains all the portable astronomical and field instruments needed for extensive triangulation, topographic, hydrographic, and railroad surveys, including theodolites, heliotropes, Kern precise-level and new U. S. C. & G. S. precise-level outfits, sounding apparatus, baseline apparatus, including an "invar" tape, current meters, transits, compasses,

levels, plane tables, telemeters, and such special instruments as planimeters, pantographs, sextants, aneroid barometers, etc. By an agreement with the director of Washburn Observatory, the surveying laboratory shares in the free use of the extensive apparatus belonging to that observatory.

The Road Material Testing Laboratory contains a standard N. B. M. brick rattler of the latest type, a four-cylinder Deval abrasion machine, a Page impact machine for testing the toughness of rock, a ball machine, a diamond drill, a diamond saw, and a standard impact machine for testing the cementing power of rocks.

Arrangements have been made with the Chemical Engineering Department whereby special instruction is given to highway engineers on the chemistry of bituminous materials, and excellent opportunities are offered for learning the usual laboratory tests on asphalts, tars, and oils. See Roads and Pavements 104 and Chemical Engineering 121.

The Testing Laboratory is supplied with a 600,000 pound hydraulic universal testing machine (designed in the laboratory) taking tension and compression specimens 10 feet and beams 20 feet long, a Riehlé torsion machine taking shafts 15 feet long and 3 inches in diameter, a 100,000 pound Johnson beam machine taking beams 18 feet long, six Olson and Riehlé universal machines from 10,000 to 100,000 pounds capacity, a Thurston torsion machine, a Russell impact machine, a Deval abrasion machine, a Dorry abrasion machine, a standard brick rattler, a Brinell hardness tester, several small beam and wire machines, a refrigerator and a gas furnace for freezing and heating tests, a Smith concrete mixer, and a good equipment for tests of cement and plain and reinforced concrete.

The Cement Laboratory contains a full supply of necessary apparatus for making standard tests: baths, recording thermometers, Boehme hammer, complete one-thousand-pound Riehlé and Fairbanks testing machines, etc.

The Forest Products Laboratory is conducted in co-operation with the work of the University, and offers especially valuable opportunities for engineering students to carry on advanced study and research pertaining to the utilization of forest products. The equipment of this laboratory is described under Forest Products Laboratory. (See Index.) Its completeness makes it possible to approximate commercial conditions much more closely than is done in the ordinary labo atory work.

The investigative work of the laboratory includes the following fields: (1) Timber Physics, (2) Timber Mechanics, (3) Wood

Preservation, (4) Wood Distillation, (5) Wood Pulp, (6) Chemistry of Wood, (7) Lumbering, and (8) Glues, Veneers and Plywood.

The Paving Material Museum includes an excellent exhibit of paving supplies and samples of both old and new pavements, both foreign and domestic, for use in the courses in roads and pavements.

The Engineering Museum contains a collection of models illustrating problems in descriptive geometry, stereotomy, and kinematics, besides many models of bridges and hydraulic structures. There are also numerous industrial exhibitions of engineering interest and value.

A further description of the engineering laboratories and museums may be found in the separate bulletin issued by the College of Engineering.

Courses of Study and Degrees

Courses Leading to the B.S. Degree

The College of Engineering offers five systematic four-year courses leading to the B.S. degree:

Civil Engineering.
Mechanical Engineering.
Electrical Engineering.
Chemical Engineering.
Mining Engineering.

Students who complete any of the above four-year courses are graduated with the degree of bachelor of science, the diploma containing a specific designation of the course taken.

The above courses may also be taken as five-year courses leading to the B.S. degree. The additional year will make it possible to include a large amount of work in the College of Letters and Science.

Graduate Work

The graduate work in the College of Engineering is a part of the Graduate School of the University, and is in charge of an administrative committee. Excellent opportunities are offered in the various departments for advanced theoretical work and for research. A special fund is available to be devoted exclusively to experimental work in the engineering laboratories.

The degrees of civil engineer, mechanical engineer, electrical engineer, chemical engineer, and engineer of mines are conferred as second degrees (a) upon graduates of approved institutions who have

ompleted suitable undergraduate courses and who pursue advanced professional study at the University for one year or more, present a satisfactory thesis, and pass an oral examination upon the field of their graduate work; (b) upon graduates of the College of Engineering of the University of Wisconsin who have spent three years in professional work, at least one of which must have been in a position of responsibility, and who present a satisfactory thesis.

The degrees of master of science and doctor of philosophy are conferred upon graduates of the engineering courses under the same requirements as apply to graduates of other Divisions of the University. For a statement of these requirements see Index under Degrees.

Six-Year Courses Leading to the B.A. Degree and an Engineering Degree

By properly arranging their elective studies, students in the College of Letters and Science secure the B.A. degree at the end of four years, and the B.S. degree in engineering in two additional years. These students will register in the College of Letters and Science during the first four years of residence.

They will elect during their collegiate course the studies of the first two years of the engineering course which they plan to pursue later, with the exception of shop work. This may be taken as an extra study, or may be taken during vacation time. Upon receiving the B.A. degree they will be admitted as juniors in the College of Engineering.

By utilizing the opportunities offered in the summer session students may in most cases secure the professional degree at the end of the sixth year.

Summer Vacation Work

All engineering students are required to take summer vacation work in addition to the work of the four academic years. For civil engineering students this work consists of four weeks of field work, following either the sophomore or the junior year. For mechanical engineers, the requirement consists of not less than seven weeks of approved summer work in industrial practice. The electrical engineers are required to take four weeks of approved summer work in an engineering or industrial organization. The Chemical Engineers, at the close of the junior year, are required to work five weeks in the university laboratory on chemical manufacture.

Inspection Trips

Inspection trips, for visiting industrial plants, are required of all engineering students during the junior or senior year. They are arranged and conducted by members of the faculty of the various departments and are designed to illustrate the work of the several courses.

The electrical and mechanical engineers take the trip in the autumn of the senior year. The student generally has the choice between the eastern trip, including usually Chicago, Niagara Falls, B ffalo, Pittsburg, Cleveland, and Gary, and the western trip including Milwaukee, Chicago, and cities in the near vicinity. Each of these trips lasts a week.

The civil engineers visit the cities of Chicago and Milwaukee, one in the spring of the junior year, the other in the autumn of the senior year. Each of these trips takes three to four days.

The chemical engineers make a week's visit to Milwaukee, Chicago, and points near by in the spring of the junior year.

Mining engineers spend a considerable portion of two summer vacations at work in the different mining regions and metallurgical centers. A very detailed report is submitted of their observation of conditions, methods, and operations in the district visited.

In metallurgy the students inspect the metallurgy works around Chicago, the trip lasting a week.

Thesis

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 cour.e 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 it must be approved by the instruc-

tor under whom the work has been done. It shall be deposited in the University Library by the Thursday 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 year 1920–21:

November 23, 1920.
Frederick G. Cottrell, director of the United States Bureau of Mines.
"Relations of Patents to Scientific Research."

December 3, 1920.
Francis S. Peabody, president of the Peabody Coal Company.
"Economy in Coal Production."

February 25, 1921.
Anson Marston, dean of engineering, Iowa State College.
"Our National Highway Engineering Problem."

March 11, 1921.
David White, chief geologist of the United States Geological Survey.
"Fuel Reserves."

March 25, 1921.
Ernest E. Thum, associate editor of *Chemical and Metallurgical Engineering*.
"What's New in Metallurgy.

Outline of Engineering Courses

CIVIL ENGINEERING COURSE

Leading to the B.S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Top. Engr. 1	2	Top. Engr. 2	2
Physical Education	1	Physical Education	1
Military Science	1	Military Science	1
Freshman Lectures	0	Freshman Lectures	0
Total	18	Total	18

Sophomore Year

Mathematics 54	4	Mathematics 55	4
Physics 51	5	Physics 52	5
Drawing 3	3	Mechanics 1, 2	5
Top. Engr. 3	3	Top. Engr. 104	3
Ry. Engr. 1	2	Military Science	1
Military Science	1		
Total	18	Total	18

Topographical Engineering (Summer work), four weeks.

Junior Year

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. Seminary	1	Engr. Seminary	1
		Elective	3
Total	20	Total	20

Railway Engineering (Summer work), two weeks.

Senior Year

Structural Engr. 3	3	Engr. Contracts 101	2
Structural Engr. 105	3	Structural Engr. 4	2
Steam and Gas Engr. 27	2	Elect. Engr. 149–150	4
Hydraulic Engr. 111	3	Railway Engr. 111	1
Engr. Seminary	1	Engr. Seminary	1
Thesis	1	Thesis	2 to 4
Elective	7	Elective	8 to 6
Total	20	Total	20

Requirements Concerning Elective Studies

At the beginning of the junior year, the student must elect to pursue one of the following groups of studies:

STRUCTURAL OPTION

Junior Year

		Credits	Semester
Mining Engr. 124	Metallurgy of Iron and Steel	2	I or II

Senior Year

Structural Engr. 3	Bridge Design, additional	1	I
Structural Engr. 107	Higher Structures	2	I
Structural Engr. 4	Bridge Design, additional	1	II
Structural Engr. 111	Reinforced Concrete Design	2	II
Structural Engr. 108	Secondary Stresses, or	2	II
Mechanics 106	Advanced Mechanics		
Mechanics 108			

Additional Suggested Electives

Structural Engr. 106, 109, 112, 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	Hyd. Machinery Testing	2	I
Hyd. & San. Engr. 104	Water Power Engr.	3	I
Sanitary Engr. 105	Hyd. Machinery	2	II
Sanitary Engr. 112	Sewerage, Drainage and Irrigation	3	II
Sanitary Engr. 113a and 113b	Hyd. Design	4	I or II

MUNICIPAL OPTION

The following courses are required:

Junior Year

City Planning 101	City Planning	2	I
Hygiene 108	Sanitary Bacteriology	4	II

Senior Year

Hydraulic and Sanitary Engr. 112	Sewerage, Drainage, Irrigation	3	II

HIGHWAY OPTION

Highway Engr. 103	Seminary	3	II
Highway Engr. 104	Laboratory	3	II
Struct. Engr. 112	Highway Bridges	2	II
Chem. Engr. 121	Lab. on Bitumens	2	II
City Planning 101	Lay-out of Street Systems	2	I

GENERAL OPTION

All electives are free, excepting that not more than half can be taken in the department providing special optional groups.

MECHANICAL ENGINEERING COURSE

Leading to the B.S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Shopwork 1, 2, 3	2	Shopwork 4, 5	2
Physical Education	1	Physical Education	1
Military Science	1	Military Science	1
Freshman Lectures	0	Freshman Lectures	0
Total	18	Total	18

Sophomore Year

Mathematics 54	4	Mathematics 55	4
Physics 51	5	Physics 52	5
Machine Design 1	4	Drawing 3	3
Shopwork 6, 13	3	Machine Design 2	1
Military Science	1	Mechanics 1, 2	5
		Military Science	1
Total	17	Total	19

The equivalent of four credits for industrial practice. See Shopwork Course 10.

Junior Year

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 11 and 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	Comm. Mech. Engr. 102	2
Comm. Mech. Engr. 101	3	Steam and Gas 124	1
Elect. Engr. 144	3	Shopwork 8, 9	2
Elect. Engr. 132	2	Machine Design 109	2
Shopwork 12	1	Thesis and Electives	11
Electives	7		
Total	20	Total	20

*It is recommended that these electives be on subjects not closely related to technical engineering work.

Must include Water Power, 3 credits, first semester, or Hydraulic Machinery, 2 credits.

ELECTRICAL ENGINEERING COURSE

Leading to the B.S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
English 1a	3	English 1b	3
Drawing 1	3	Drawing 2	3
Shopwork 1, 2, 3	2	Shop 4, 5	2
Chemistry 2	3	Chemistry 2	3
Physical Education	1	Physical Education	1
Military Drill	1	Military Science	1
Freshman Lectures	0	Freshman Lectures	0
Total	18	Total	18

Four weeks of approved summer experience in an engineering or industrial organization.

Sophomore Year

Mathematics 54	4	Mathematics 55	4
Physics 53	3	Physics 54a	3
Drawing 3	3	Machine Design 1	4
Economics 1a	4	Elect. Engr. 140a, 140b	5
Top. Engr. 108	3	Shopwork 6	2
Military Science	1	Military Science	1
Total	18	Total	19

Junior Year

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

Senior Year

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	7		
Total	20	Total	20

*Commercial Law or Commercial Engineering may be substituted.
†Students may substitute Steam and Gas 1 and 2 required for mechanical engineers and count the additional two credits as elective.

ELECTIVES

Of the 25 elective credits, 13 are free electives and 12 must be selected from the following group of electrical applications:

First Semester	Credits
EE 127—Central Stations and Industrial Applications	3
EE 122—Electric Testing	2
EE 116—Electric Circuits	3
EE 135—Telephony	3
Chem. E 4—Applied Electro-chemistry	3
EE 154a—Signal Corps Course	3
EE 155a—Signal Corps Course	3
EE 129a—Electric Railways	3
EE 160—Advanced Individual Studies.	

Second Semester	
EE 104—Dynamo Design	2
EE 120—High Tension Insulation.	
EE 129—Electric Railways (continued)	3
EE 137—Power Distribution	3
EE 133—Illumination and Photometry	3
EE 118—Electric Amplifiers and Oscillators	3
EE 154b—Signal Corps Course	3
EE 155b—Signal Corps Course	3
EE 160—Advanced Individual Studies.	

CHEMICAL ENGINEERING COURSE

Leading to the B.S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Shop 1, 2, 3	2	Shopwork 4, 5	2
Physical Education	1	Physical Education	1
Military Science	1	Military Science	1
Freshman Lectures	0	Freshman Lectures	0
Total	18	Total	18

Sophomore Year

Mathematics 54	4	Mathematics 55	4
Chemistry 11	5	Mechanics 1, 2	5
Physics 51	5	Physics 52	5
Machine Design 1	4	Chem. Engr. 12, 18	4
Military Science	1	Military Science	1
Total	19	Total	19

Junior Year

Mechanics 3	5	Steam and Gas 4, 25	5
Steam and Gas Engr. 3	3	Electrical Engr. 131a	2
Chemistry 120	3	Chemistry 120	3
Chem. Engr. 117	2	Drawing 3	3
Chem. Engr. 119	3	Chem. Engr. 111	2
*Electives	3	Mechanics 53	2
		Electives	3
Total	19	Total	20

Summer Work, Chemical Engineering 114 (Chemical Manufacture), 4 credits.

Senior Year

Steam and Gas Engr. 26	1	Contract 101	2
Elect. Engr. 131b, 130	4	Machine Design 5	3
Chemistry 30	3	Chem. Engr. 116	2
Chem. Engr. 101a	5	Chem. Engr. 120	2
Chem. Engr. 15, 116	5	Chem. Engr. 122	4
Elective	2	Elective	6
Total	20	Total	19

*Economics is recommended.

COURSES IN MINING, METALLURGY, AND GEOLOGY

Leading to the B.S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Shopwork 1, 2, 3 or Top. Engr. 1	2	Shopwork 4, 5 or Top. Engr. 2	2
Physical Education	1	Physical Education	1
Military Science	1	Military Science	1
Freshman Lectures	0	Freshman Lectures	0
Total	18	Total	18

Sophomore Year

Mathematics 54	4	Mathematics 55	4
Physics 51	4	Physics 52	4
Chemistry 11	5	Mechanics 1, 2	5
Mineralogy 6	5	Mineralogy 6	5
Military Science	1	Military Science	1
Total	19	Total	19

Junior Year*

Mechanics 3	5	Mechanics 53	2
Major, Minor, Free Electives	15	Drawing 3	3
		Major, Minor, Free Electives	15
Total	20	Total	20

Senior Year*

Major, Minor, Free Electives	19	Major, Minor, Free Electives	19
Total	19	Total	19

*At the beginning of the junior year, the student must elect his major and minor studies as follows:
Major to consist of 30–40 credits in any one of the following groups.
Minor to consist of 15–20 credits in any except the major group.
Balance to make 152 credits, free electives.

MINING GROUP

Courses in Mining Engineering
Railway Engineering 104
Structural Design, Structural Engineering 10
Thermodynamics, Steam 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

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
Direct Current Machinery, Electrical Engineering 131a
Alternating Current Machinery, Electrical Engineering 131b
Physical Chemistry, Chemistry 130
Metallography, Chemical Engineering 119a
Electric Furnaces, Chemical Engineering 102
Economic Geology, Geology 111

GEOLOGICAL GROUP

General Geology, Geology 1 or 9
Structural Geology, Geology 114
Economic Geology, Geology 111
Petrology, Geology 108
Excavation, Mining 101
Mining Methods, Mining 103
Mine Valuation, Mining 104
Mine Administration 109
Stratigraphy, Geology 112
Metamorphic Geology, Geology 115
Lake Superior Geology, Geology 118
Oil Geology, Geology 123

Elective for Students in the College of Letters and Science

Students who plan to graduate in Engineering, after taking a degree in the College of Letters and Science, should aim to make the following elections during the undergraduate course, in order that the engineering course may be completed in two additional years:

Mathematics 51 to 55; Physics 1 or 51 and 52; Chemistry 1 or 2; Mechanical Drawing 1, 2, and 3; Topographical Engineering 2, 3, and 4, or Machine Design 1; Applied Mechanics 1 and 2; Electrical Engineering 140a and 140b; Chemical Engineering 18, 12, and 111.

It is well also to elect some or all of the freshman and sophomore shop work as an extra study.

Graduation in More than One of the Engineering Courses

Graduates in any of the engineering courses may graduate in any other engineering course after one year of additional study. Students who contemplate doing this should, however, make their elections, especially in the senior year, with this end in view.

DEPARTMENTS OF INSTRUCTION

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

The unit of reckoning the credit is one hour of classroom work per week. Two hours of drawing, laboratory, field, or shop work (which require no outside preparation) count as one hour of classroom work.

Courses Given in the College of Letters and Science

For detailed description of courses given in the College of Letters and Science see Index under Astronomy, Bacteriology, Chemistry, Chemistry of Forest Products, English, Forestry and Wood Technology, Geology, Mathematics, Meteorology, Physics, Economics, German, French, and Spanish.

COURSES GIVEN IN THE COLLEGE OF ENGINEERING

AERONAUTICS

PROFESSORS MAURER, LARSON.

1. Aeronautics. I; 2 cr.
2. Aeronautics. II; 2 cr.

CHEMICAL ENGINEERING

PROFESSOR KOWALKE; ASSOCIATE PROFESSOR WATTS; ASSISTANT PROFESSOR HOUGEN; INSTRUCTORS FAHLBERG, RAMSAY, RAGATZ.

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. Fahlberg.

12. Fuel and Gas Analysis. I or II; 2 cr. Prerequisites: Chemistry 2, 11. Mr. Ramsay, Mr. Ragatz.

15. Industrial Chemistry. I; 3 cr. Prerequisites: Chemistry 2, 11, 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. II; 3 cr. Mr. Kowalke.

114a. Chemical Manufacture. I; 4 cr. prerequisites: Chemistry, 2, 11, 120, Chemical Engineering 111. Required of chemical engineers as summer work, elective for others. Mr. Kowalke.

116. Applied Thermal Chemistry. Yr.; 4 cr. Mr. Hougen.

117a. Technical Pyrometry. I; 2 cr. Prerequisites: Chemistry 2, Physics 51, 52. Mr. Hougen, Mr. Ramsay, Mr. Ragatz.

117b. Advanced Pyrometry. II; 1 or more cr. Continuation of 117a. Mr. Hougen.

119a. Metallography. I or II; 3 cr. Prerequisites: Chemistry 2, Physics 1, 2 or 51. Mr. Fahlberg, Mr. Ragatz.

119b. Advanced Metallography. I or II; cr. to be arranged. Mr. Fahlberg.

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. II; 2 cr. Mr. Kowalke, Mr. Hougen.

For Graduates

230. Chemical Engineering Research. Hours and credit by arrangement. Mr. Kowalke, Mr. Watts.

231. Seminary. Mr. Kowalke.

CITY PLANNING*

PROFESSOR SMITH.

For Undergraduates and Graduates

101. City Planning. I, II; 2 cr. Not elective by freshmen. Mr. Smith.

102. Industrial Housing. I, II; 2 cr. Not elective by freshmen. No prerequisites. Mr. Smith.

103. Real Estate Planning. II; 2 cr. Prerequisites: City Planning 101 or its equivalent. Suited to needs of students interested in real estate development. Mr. Smith.

COMMERCIAL MECHANICAL ENGINEERING

PROFESSOR LARSON; ASSOCIATE PROFESSOR HYLAND.

For Undergraduates and Graduates

101. Commercial Problems. I; 3 cr. Mr. Larson and special lecturers.

102. Power Plant Design. II; 2 cr. Mr. Hyland.

103. Industrial Engineering. II; 2 cr. Mr. Larson and special lecturers.

104. Mechanical Engineering Seminary. II; 1 cr. Open to seniors. Mr. Larson.

DRAWING

PROFESSOR PHILLIPS; ASSOCIATE PROFESSORS MILLAR, ORTH; INSTRUCTORS BALDWIN, DAUBNER, DOKE, KECK, LIVERMORE, MACKEY, ROMIG, SHIELS, WERRELL.

For Undergraduates

1. Elements of Drawing. I or II; 3 cr. Mr. Phillips, Mr. Orth, Mr. Baldwin, Mr. Daubner, Mr. Doke, Mr. Keck, Mr. Livermore, Mr. Mackey, Mr. Werrell.

2. Elements of Drawing. I or II; 3 cr. Prerequisite: course 1. Mr. Phillips, Mr. Orth, Mr. Baldwin, Mr. Daubner, Mr. Doke, Mr. Keck, Mr. Livermore, Mr. Mackey, Mr. Werrell.

*Students desiring work in planning and planting of public grounds, parks, and home grounds, see courses in Horticulture, College of Agriculture.

3. Descriptive Geometry. I or II; 3 cr. Prerequisites: courses 1, 2. Mr. Millar, Mr. Shiels, Mr. Romig, Mr. Mackey.

4. Freehand Lettering. I or II; 1 cr. Prerequisites: courses 1, 2. Mr. Orth.

5. Elements of Drawing. Yr.; 1 cr. For chemistry students. Mr. Orth.

ECONOMICS*

PROFESSORS COMMONS, GILMAN, KIEKHOFER, SCOTT; ASSISTANT PROFESSORS HAAKE, JEROME, MCKAY, MILLER; INSTRUCTOR GLAESER.

For Undergraduates

1a. Elements of Economics. I or II; 4 cr. 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, Mr. Haake, Mr. McKay.

For Undergraduates and Graduates

109. Commercial Law. Yr.; 4 cr. Prerequisite: senior standing or consent of instructor. Mr. Gilman.

122. Labor Problems. I; 3 cr. Prerequisites: Economics 1a and 1b or equivalents. Given in alternate years with Economics 123. (Given 1921–22.) Mr. Commons.

123. Labor Legislation. I; 3 cr. Prerequisites: Economics 1a and 1b or equivalents. Given in alternate years with Economics 122. (Given 1920–21.) Mr. Commons.

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 1a. Mr. Miller and staff.

136. Railway Problems. I or II; 3 cr. Prerequisite: Economics 135. Mr. Miller and staff.

137. Corporation Finance. I; 3 cr. Prerequisite: A minimum grade of 80 in Economics 5. Mr. Gilman and staff.

142. Public Utilities. Yr.; 2 cr. Prerequisite: Economics 1a and junior standing. Mr. Glaeser.

*Part time instruction is also given by Professor Wisler of the Extension Division.

149. Labor Management. I; 2 cr. Prerequisites: Economics 1a and 1b or equivalents. Mr. Wisler.

155. National Economic Policies. II; 3 cr. Prerequisites: Economics 1a and 1b. Mr. Kiekhofer.

ELECTRICAL ENGINEERING

PROFESSORS BENNETT, JANSKY, ROOD; ASSOCIATE PROFESSORS WATSON, PRICE; ASSISTANT PROFESSORS CROTHERS, KELSO; INSTRUCTORS FULLER, KOEHLER, LYON, MEYERS, PETERS, SINGER, WISE.

For Undergraduates and Graduates

102. Dynamo Laboratory. Prerequisite: course 141. Mr. Price and laboratory instructors.

103. Alternating Current Machinery. I; 3 cr. Prerequisite: course 144. For mechanical engineers. Mr. Kelso.

104. Dynamo Design. II; 2 cr. Prerequisite: course 141. Mr. Watson.

112a. Alternating Current Laboratory. II; 2 cr. Mr. Price and laboratory instructors.

112b. Advanced Laboratory. I; 2 cr. Continuation of 112a.

116. Electric Circuits. I; 3 cr. Prerequisite: course 143a. Mr. Bennett, Mr. Peters.

118. Electric Amplifiers and Oscillators. II; 3 cr. Prerequisite: Electrical Engineering 116. Mr. Bennett, Mr. Koehler.

122. Electric Testing. I; 2 cr. Prerequisites: courses 103, 143 or 131. Mr. Crothers, Mr. Wise.

125. Conference. I or II; 2 cr. Open to engineering seniors and graduates. Mr. Rood, Mr. Bennett.

127. Electric Central Stations. I; 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 and chemical engineers. Should be accompanied by course 103 or 131a. Mr. Price and laboratory instructors.

131a. Direct Current Machinery. II; 2 cr. For chemical and mining engineers. Prerequisite: Physics 52. Mr. Jansky.

131b. Alternating Current Machinery. I; 2 cr. Prerequisite: course 131a or 103. Mr. Jansky.

132. Alternating Current Laboratory. II; 2 cr. Primarily for mechanical engineers. Prerequisite: course 130. Mr. Price and laboratory instructors.

133. Illumination and Photometry. II; 2 cr. Mr. Wise.

135. Telephony. I; 2 cr. Mr. Crothers.

137. Power Distribution and Insulation. II; 3 cr.

140a. Fundamentals of Electrical Engineering. II; 3 cr. Introductory course for sophomore electrical engineers. Prerequisites: Physics 53, Mathematics 54. Mr. Bennett, Mr. Crothers, Mr. Lyon.

140b. Electrical Engineering Laboratory. II; 2 cr. To accompany course 140a. Mr. Price and laboratory instructors.

141. Direct Current Machinery, Construction and Operation. I; 4 cr. Mr. Watson.

143a. Alternating Current Machinery. II; 4 cr. Mr. Watson.

143b. Alternating Current Machinery. I; 4 cr. Mr. Price.

144. Direct Current Machinery. II; 3 cr. Primarily for mechanical engineers. Prerequisite: Physics 52. Mr. Kelso.

149. Direct Current Machinery. II; 3 cr. Primarily for civil engineers.

150. Direct Current Laboratory. II; 1 cr. To accompany course 149.

154a. Signal Corps Course. I; 3 cr.

154b. Signal Corps Course. II; 3 cr.

155a. Signal Corps Course. I; 3 cr.

155b. Signal Corps Course. II; 3 cr.

This course is the signal course which is required of those electrical engineers who enroll in the signal corps unit of the reserve officers training corps which has been established at the University by the War Department. Men who enroll in the signal corps unit, after satisfactorily completing the course and meeting the military requirements are commissioned in the reserve officers training corps. The course is also open to juniors and seniors in electrical engineering and to students who are taking equivalent training along mathematical and physical lines. Course covers telephony, telegraphy, radio telegraphy, radio telephony. Prerequisite: E. E. 140a. Mr. Bennett, Mr. Crothers, and Mr. Koehler.

For Graduates

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.

214. Advanced Dynamo Laboratory. I or II; 2 cr. Prerequisites: courses 112a, 121b, 143. Mr. Price.

231. Transmission and Distribution of Power. Yr.; 3 cr. Mr. Bennett.

232. Advanced Theory of Electric Circuits. Yr.; 3 cr. Mr. Bennett.

ENGINEERING CONTRACTS AND SPECIFICATIONS

Professors Mead and Corp; Instructor Gumprecht.

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: English 1 b. Mr. Van Hagan.

1b. Junior Engineering English. II; 1 cr. Follows course 1a. Mr. Van Hagan.

2a. Senior Engineering English. I; 1 cr. Follows course 1b. Mr. Van Hagan.

2b. Senior Engineering English. II; 1 cr. Follows course 2a. Mr. Van Hagan.

10. Engineering Journalism. I or II; 1 cr. Mr. Van Hagan.

FORESTRY AND WOOD TECHNOLOGY

H. D. Tiemann (chairman).

101. Forestry and Utilization of Wood. I; 2 cr. Open to all engineering students. Mr. Tiemann.

102. Wood Technology. II; 2 cr. For juniors, seniors and graduates. Mr. Tiemann.

110. Structural Timbers. II; 1 cr. Prerequisite: Mechanics 2 and 3. Mr. Newlin, Mr. Hunt, Mr. Markwardt, Mr. Wilson, Mr. Koehler.

HYDRAULIC AND SANITARY ENGINEERING

PROFESSORS MEAD AND CORP; ASSISTANT PROFESSOR WARD; INSTRUCTORS GUMPRECHT AND RUBLE.

For Undergraduates

1. Elementary Hydraulics. I or II; 3 cr. Prerequisites: Mechanics 1, 2. Mr. Corp, Mr. Ward, Mr. Ruble.

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. Ruble.

For Undergraduates and Graduates

102. Testing of Hydraulic Machines. I; 2 cr. Prerequisite: course 1. Mr. Corp. Mr. Ruble.

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. Gumprecht.

105. Hydraulic Machinery. II; 2 cr. Prerequisite: course 1. Mr. Mead, Mr. Ruble.

106. Sewage and Garbage Disposal. I; 1 cr. Mr. Corp.

110. Hydrology. II; 2 cr. Mr. Mead, Mr. Gumprecht.

111. Water Supply. I; 3 cr. Prerequisite: course 1. Mr. Mead, Mr. Gumprecht.

112. Sewerage, Drainage, and Irrigation. II; 3 cr. Prerequisite: course 1. Mr. Mead, Mr. Corp.

113a. Hydraulic Design. I; 2 cr. Prerequisites: courses 1, 110. Mr. Mead, Mr. Gumprecht.

113b. Hydraulic Design. II. Continuation of 113a. Prerequisites: courses 1, 110, 113a. Mr. Mead, Mr. Gumprecht.

MACHINE DESIGN

ASSOCIATE PROFESSOR HYLAND; ASSISTANT PROFESSORS MILLER, NEFF; INSTRUCTORS DAHLBERG, PUERNER.

For Undergraduates

1. Mechanism. I or II; 4 cr. Prerequisites: Mechanical Drawing 1, 2. Mr. Hyland, Mr. Dahlberg, Mr. Puerner.

2. Valve Gears. I or II; 1 cr. Prerequisite: course 1. Mr. Miller, Mr. Dahlberg.

3. Machine Elements. I or II; 4 cr. Primarily for mechanical engineers. Prerequisites: course 1, Mechanics 1, 2. Mr. Neff.

4. Advanced Machine Design. I or II; 4 cr. Prerequisite: course 3. Mr. Neff.

5. Machine Elements. I or II; 3 cr. Similar in scope to course 3. For electrical and chemical engineers. Prerequisites: course 1, Mechanics 1, 2, 3. Mr. Miller.

6. Advanced Machine Design. I or II; 2 cr. Similar in scope to course 4. For electrical engineers. Prerequisite: course 5. Mr. Miller.

7. Chemical Machine Design. II; 2 cr. For chemical engineers. Prerequisite: course 5. Mr. Miller.

8. Patent Office Drawing. I or II; 1 cr. Requirements of U. S. Patent Office. Prerequisites: Mechanical Drawing 1, 2. Mr. Hyland.

11. Machine Testing. I or II; 1 cr. Mr. Miller, Mr. Puerner.

12. Advanced Machine Testing. II; 1 cr. Continuation of 11. Mr. Miller, Mr. Puerner.

For Undergraduates and Graduates

109. Design of Special Machines. II; 2 cr. Prerequisites: course 4 or 6. Mr. Neff.

110. Logging and Wood Working Machinery. II; 2 cr. Prerequisite: course 3 or 5. Mr. Hyland.

MECHANICS

PROFESSORS MAURER, WITHEY; ASSISTANT PROFESSORS JASPER, KOMMERS*, ROARK; INSTRUCTORS TABOR, WIEPKING, WILSON.

For Undergraduates

1. Statics. I or II, first ten weeks; 3 cr. Prerequisite: Physics 51.

2. Dynamics. I or II, last eight weeks; 2 cr. Prerequisites: course 1, Mathematics 54.

3. Mechanics of Materials. I or II; 5 cr. Prerequisites: course 1, Mathematics 54.

51. Materials of Construction. I; 2 cr. Prerequisite: enrollment in or completion of course 3. For civil engineers.

52. Materials of Construction. II; 2 cr. Continuation of 51.

*On leave 1920–1921.

53. Materials of Construction. I or II; 2 cr. For all except civil engineers. Prerequisite: enrollment in or completion of course 3.

For Undergraduates and Graduates

106. Advanced Mechanics of Materials II; 2 cr. Prerequisites: courses 2, 3. Mr. Maurer.

107. Advanced Technical Mechanics. I; 2 cr. Prerequisites: courses 1, 2. Mr. Maurer.

108. Advanced Materials Laboratory. I; 2 or more cr. Prerequisite: course 51 or 53. Mr. Withey.

109. Graphics. II; 2 cr. Prerequisites: courses 1, 2, 3.

MINING AND METALLURGY

PROFESSORS MCCAFFERY, SHOREY.

101. Excavation and Tunneling. II; 3 cr. Mr. Shorey.

103. Mining Methods. Yr.; 3 cr. Mr. Shorey.

104. Valuation of Mineral Properties. I; 2 cr. Mr. Shorey.

105. Mine Engineering. Yr.; 3 cr. Mr. Shorey.

106. Mine Plant Design. II; 3 cr. Prerequisites: 101, 103, 104, 105. Mr. Shorey.

107. Ore Dressing. I; 5 cr. Prerequisite: Geology 6. Mr. Shorey.

109. Mine and Smelter Accounts and Administration. I; 2 cr. Lectures. Mr. McCaffery.

112. Mine Surveying. II; 3 cr. Mr. Shorey.

121. Assaying. I or II; 2 or 3 cr. Prerequisite: Chemistry 2. Mr. McCaffery.

122. General Metallurgy. II; 3 cr. Prerequisite: Chemistry 2. Mr. McCaffery.

123. Fire Metallurgy of Copper, Lead and Zinc. I; 3 cr. Prerequisite: course 122. Given 1919–1920 and alternate years. Mr. McCaffery.

124. Metallurgy of Iron and Steel. I or II; 2 cr. Mr. McCaffery.

125. Metallurgy of Minor Metals. II; 2 or 3 cr. Given 1919–1920 and alternate years. Mr. McCaffery.

126. Clay Products Manufacture. I; 2 cr. Mr. Shorey.

127. Hydrometallurgy of Gold, Silver, Copper, Lead and Zinc. I; 3 cr. Prerequisite: course 122. Given 1920–1921 and alternate years. Mr. McCaffery.

128. Iron and Steel Laboratory. I or II; 2 or more cr. Mr. McCaffery.

129. Non-ferrous Laboratory. II; 3 cr. Mr. McCaffery.

131. Foundry Metallurgy. I; 2 cr. Mr. McCaffery.

132. Manufacture of Coke. II; 2 cr. Mr. McCaffery.

135. Steel Works Power Plants. I; 3 cr. Mr. Bennett, Mr. Larson, Mr. McCaffery.

150. Economic Aspects of Mining. II; 3 cr. For students in economics and commerce, of not lower than junior standing. Mr. McCaffery.

For Graduates

210. Ore Dressing Laboratory. I or II; 2 or more cr. Mr. McCaffery.

225. Metallurgical Laboratory. I or II; 2 or more cr. Mr. McCaffery.

RAILWAY ENGINEERING

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. Prerequisites: course 2 and topographic engineering 106. Mr. Van Hagan and assistants.

For Undergraduates and Graduates

103. Maintenance of Way and Structures. II; 2 cr. Prerequisites: courses 2, 22. Mr. Van Hagan.

104. Railway Engineering. I; 2 cr. For electrical and mining engineers. Prerequisite: trigonometry, elementary surveying. Mr. Van Hagan.

105. Economics of Railway Engineering. I: 2 cr. Prerequisites: courses 2, 22. Mr. Van Hagan.

107. Advanced Railway Design. I or II; 2 cr. Open to seniors and graduates. Mr. Van Hagan.

108. Railway Signaling. II; 2 cr. Mr. Van Hagan.

110. Masonry Construction. II; 2 cr. Prerequisites: Mechanics 3, 51. Mr. 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 SMITH.

For Undergraduates and Graduates

101. Country Roads. I, II; 1 cr. Designed especially for students desiring a short course. Mr. Smith.

102. Introduction to Construction and Maintenance. I; 2 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. II; 3 cr. Prerequisite: course 102. Mr. Smith.

104. Testing Road Materials. II; 3 cr. Includes the instruction given in the course on Analysis of Bitumens for Highways (Chemical Engineering 121). Mr. Smith.

Note: For course in highway bridges see Structural Engineering 112.

SHOP WORK

ASSISTANT PROFESSOR DABNEY, (SUPT.); INSTRUCTORS BRECKEY, CLARE, GOUDE, HITCHCOCK, PAYTON, PETERS, SCHUMANN; ASSISTANTS MALONE, WALD.

1. Elementary Pattern Making. I or II; 1 cr. Mr. Payton.

2. Bench Work in Iron and Steel. I or II; ½ cr. Mr. Dabney, Mr. Breckey, Mr. Peters.

3. Elementary Forge Work. I or II; ½ cr. Mr. Schumann.

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. Hitchcock, Assistant Wald.

6. Tool Making. I or II; 2 cr. Prerequisites: courses 4, 5. Mr. Breckey, Mr. Clare, Mr. Hitchcock.

7. General Shop Work. I or II; 2 cr. Prerequisites: courses 4, 5. Mr. Breckey, Mr. Hitchcock.

8. Heat Treatment of Steel. II; 1 cr. Prerequisite: course 3. Regularly for seniors only.

9. Advanced Pattern Making and Foundry Practice. II; 1 cr. Prerequisite: course 1. Regularly for seniors only. Mr. Payton, Mr. Goude.

10. Industrial Practice. 4 cr. Not less than seven weeks of work, done outside the University, preferably under a well-developed system of methods and discipline. In exceptional cases credit may be secured by four weeks of vacation work in the University Shops.

12. Manufacturing Methods. I; 1 cr. Administration of course 7. Regularly for seniors only. Mr. Dabney, Mr. Hitchcock.

13. Elementary Foundry Practice. I or II; 1 cr. Mr. Goude.

STEAM AND GAS ENGINEERING

Professor Larson; Associate Professor Gallalee; Assistant Professors Anderson, Berggren; Instructors Anderson, Spieth, Wilson.

For Undergraduates

1. Thermodynamics. I; 4 cr. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Berggren, Mr. Gallalee.

2. Thermodynamics. II; 4 cr. Mr. Berggren, Mr. Gallalee.

3. Thermodynamics. I; 3 cr. For electrical, chemical, and mining engineers. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Anderson, Mr. Anderson, Mr. Spieth.

4. Thermodynamics. II; 3 cr. Continuation of 3. Mr. Anderson, Mr. Anderson, Mr. Spieth.

7. Survey of Steam Engineering. II; 2 cr. For civil engineers. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Larson.

Laboratory Courses

Mr. Berggren and laboratory instructors.

22. Elementary Testing. II; 2 cr.

23. Advanced Testing. I; 2 cr. Continuation of 22.

25. Elementary Testing. II; 2 cr. For chemical engineers.

26. Advanced Testing. I; 1 cr. Continuation of 25. For chemical engineers.

28. Elementary Testing. II; 2 cr. For electrical engineers.

29. Advanced Testing. I; 2 cr. Continuation of 28.

30. Gas Engine Testing. I or II; 2 cr. Open only to seniors in the College of Engineering.

For Undergraduates and Graduates

105. Steam and Gas Engine Calculations. I; 2 cr. Prerequisites: courses 1, 2 or 3, 4. Mr. Larson.

106. Continuation of Course 105. II; 2 cr. This course can be taken without having had course 105, but the same courses are prerequisite. Mr. Larson.

108. Heating, Ventilating, and Refrigerating. I; 3 cr. Prerequisites: courses 1, 2 or 3, 4 or 7. Mr. Larson.

111. Compressed Air. II; 2 cr. Prerequisites: Courses 1, 2 or 3, 4 or 7. Mr. Berggren.

Laboratory Courses

MR. BERGGREN AND LABORATORY INSTRUCTORS.

124. Advanced Commercial Testing. II; 1 cr.

127. Short Course in Testing. I; 2 cr.

130. Research. Yr.; credit according to work done. Open to graduates and others by consultation.

STRUCTURAL ENGINEERING

PROFESSORS TURNEAURE, KINNE; INSTRUCTOR SLOAN.

For Undergraduates

2. Stresses in Simple Structures. II; 4 cr. Prerequisite: Mechanics 1. Mr. Kinne, Mr. Sloan.

3. Design of Roof Trusses and Plate Girders. I; 3 cr. Prerequisites: Course 2, Mechanics 3. Mr. Kinne, Mr. Sloan.

4. Design of Railway Bridge Trusses. II; 2 cr. Prerequisites: Courses 2, 3. Mr. Kinne, Mr. Sloan.

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: Mechancis 1, 3. Mr. Turneaure, Mr. Kinne, Mr. Sloan.

106. Concrete Arches. I; 2 cr. Prerequisites: Mechanics 1 3. Mr. Kinne.

107. Statically Indeterminate Structures. I; 2 cr. Open to seniors and graduates in civil engineering. Prerequisite: course 2. Mr. Kinne.

108. Statically Indeterminate Structures and Secondary Stresses. II; 2 cr. Prerequisites: Courses 2, 107. Mr. Turneaure.

109. Design of Swing Bridges. II; 2 cr. Prerequisites: Courses 2, 3, 4, 107. Mr. Kinne.

111. Principles of Reinforced Concrete. II; 2 cr. Continuation of 105. Mr. Turneaure, Mr. Kinne.

112. Highway Bridges and Culverts. II; 2 cr. Prerequisites: courses 2, 3, 4, 105. Mr. Kinne.

TOPOGRAPHIC ENGINEERING

ASSISTANT PROFESSOR OWEN; INSTRUCTOR BEEBE.

For Undergraduates

1. Elementary Surveying. I; 2 cr.

2. Elementary Surveying. II; 2 cr. Continuation of 1.

3. Land Surveying. I; 3 cr.

For Undergraduates and Graduates

104. Advanced Surveying. II; 3 cr. Continuation of 3.

105. Elementary Geodesy. II; 2 or 3 cr. Mr. Owen.

106. Summer School of Surveying. Field work illustrating courses 104 and 105. Four weeks from Friday of examination week, second semester. Prerequisites: courses 3, 104. Mr. Owen, Mr. Beebe.

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.

109. Rapid Topography. II; 2 cr. Adapted for training topographers for the Geological Survey. Mr. Beebe.

110. Mining Surveying. I or II; 2 cr. Mr. Owen.

THE COLLEGE OF AGRICULTURE

H. L. Russell, Dean.

General Information

The College of Agriculture is one of the general divisions of the University. Instruction in the general sciences, languages, and mathematics is given to agricultural and home economics students in other colleges of the University; but for the purely agricultural and home economics subjects, separate buildings, equipment, and staff of instructors are maintained. Students enter the University with the same standing as students of other colleges and have the advantages incident to a large university, such as the general laboratories, libraries, and student organizations. Aside from the purely instructional work of the College the facilities for research afford special opportunities for both regular and advanced students to secure a knowledge of the best methods in agriculture and home economics.

Buildings

The buildings occupied by the College of Agriculture are located at the west end of Observatory Hill. They have been erected and equipped with particular attention to the special needs of the work in the various departments.

The 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 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. Beekeeping, including special work in queen rearing, has been added recently to this department.

The University Farm buildings include barns for the horses, cattle, sheep, and swine as well as two large stock judging rooms. Other

buildings are provided for storing farm machinery, silage, manure, and tobacco.

A group of buildings devoted exclusively to the manufacture of hog cholera serum has been erected within the last few years on one portion of the University Farm. The Legislature of 1915 provided for the erection of a serum laboratory which has been constructed of concrete and steel and provides excellent facilities for the production of hog cholera serum.

Farm Lands

The College of Agriculture is provided with 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 18,500 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 discussion of scientific and practical questions. The Agricultural Literary Society discusses general questions in agriculture. The Euthenics Club is an organization of students in Home Economics to promote intellectual and social intercourse and stimulate greater interest in vital problems of the day.

The Agricultural College Federation (A. C. F.) is an organization of all students of the College to foster college activities and promote the general welfare of the Agricultural College. 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 Agricultural 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 experience satisfactory to the executive office of the College of Agriculture.

Before a Middle Course student in Agriculture can begin the second year of his work he must have had at least one year of practical farm experience satisfactory to the executive office of the College of Agriculture.

The College of Agriculture maintains an employment bureau to aid students in securing positions on farms where they may gain the required farm experience.

Plan of the College Activities

The work of the College of Agriculture is conducted on a threefold basis. Each department aims:

First, to develop science through investigation and experiment.

Second, to give instruction to students at the University.

Third, to disseminate information among the farmers and farm women of the state by means of publications, farmers' courses, institutes, and the agricultural extension service.

Fees and Expenses

See pp. 65ff.

Courses of Instruction

The following courses have been arranged to meet the needs of students of various classes.

Graduate Courses offer to advanced students opportunities for professional training and original investigation, made possible through an active Experiment Station, associated with numerous scientific laboratories. The special lines of study will be left largely to the selection of the student. Students may participate in experiments in progress, and after suitable experience, conduct independent investigations. When contributions to knowledge of permanent value are made they may be published through the bulletins with proper credit to the contributor.

Long Courses in Agriculture or Home Economics. These four-year courses embrace general training in chemistry, physics, biology, bacteriology, and other branches which have applications in agriculture or home economics. The fields are so broad, however, that it is impossible for the student to pursue in four years all the technical courses offered in addition to acquiring the necessary fundamental studies, and hence much liberty of election is allowed.

Middle Course in Agriculture consists of two full college years and is planned especially for those who wish greater specialization in agriculture with less of general scientific training. The first year embraces essentially the work of the first year of the Long Course, with the exception of 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.

Two Year Course for Training Vocational Teachers in Homemaking. Under the Federal Smith-Hughes Law the Uni-

versity is offering in addition to a four-year course, this course to equip mature teachers for vocational schools. The course will be discontinued June 30, 1921.

Course for the Training of Teachers. Graduates of the Courses in Agriculture or Home Economics, fulfilling the special educational professional requirements will be entitled to receive a license to teach agriculture, home economics, or the vocation of homemaking. (See pp. 251ff. 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 for two winter terms of fifteen weeks each is provided for those who can devote only a limited time to study, and who, therefore, desire the greatest amount of directly useful knowledge that can be acquired in the brief time allowed. This course begins about November 15, and closes in March. An illustrated circular describing this course may be had on request to Prof. J. A. James, College of Agriculture, Madison, Wis.

Winter Dairy Course. This course is open to persons who have had at least six months' experience in a creamery or cheese factory and covers one term of twelve weeks, beginning about November 1. The course is designed to train creamery butter makers and factory cheese makers in the science and practice of their respective lines. Certificates are given to those who satisfactorily complete the full course and have worked in a creamery or cheese factory for two seasons of not less than seven months each, one before and the other after the period spent in the Dairy Course. An illustrated circular describing this course in detail will be sent upon application to Prof. E. H. Farrington, College of Agriculture, Madison, Wis.

Summer Dairy Course. This course is intended for beginners or those having little practical knowledge of creamery or dairy work. Students are admitted at any time during the spring and summer after March 1. They are expected to remain at least ten weeks, although they may continue the work longer, if desirable. Laboratory exercises and theoretical instruction are given as required.

Extension Courses Given at the University

Farmers' Week. This is a popular course of addresses, demonstrations, and exercises, covering a period of ten days, designed to give busy farmers the most useful instruction and practice in the science of agriculture in the shortest possible time at a season when they can be away from home for a brief period. This course, early in February, 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 ten days 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 course is held at the same time as the Farmers' Course to afford an opportunity for farmers' wives and daughters to attend. Detailed information will be furnished upon request to Prof. Abby L. Marlatt, Madison, Wis.

Special Dairy Course. This is a week's course of lectures, conferences, and demonstrations, designed to meet the needs of creamery and cheese factory operators and managers, and to give them advanced instruction in connection with problems of management of their establishments as well as to inform them on recent advances in the science of dairying. The course is held at the time of the Farmers' Course. A special course for Cow Testing Association men is held at the same time. Detailed programs may be secured upon application to Prof. E. H. Farrington, College of Agriculture, Madison, Wis.

Young People's Week. A week's course of lectures, demonstrations and exercises which are of interest to farm boys and girls. Those who have won scholarships in Boys' and Girls' Club Work, pursue this course. Each day, special classes for the girls in attendance will be held at the Department of Home Economics. For further information, address Prof. T. L. Bewick, College of Agriculture, Madison, Wis.

Terms of Admission

See pp. 92ff.

Fellowships and Scholarships

See Index.

A. J. Horlick Scholarship

See p. 75.

Omicron Nu Scholarship

See p. 364.

Sharples Prize Scholarship

See p. 76.

Loan Fund

See p. 78.

Degrees

The degree of Bachelor of Science (Agriculture) is conferred upon students who successfully complete the Long Course in Agriculture.

The degree of Bachelor of Science (Home Economics) is conferred upon those completing the four-year Course in Home Economics.

The title of Graduate in Agriculture will be conferred upon students who complete the Middle Course in a satisfactory manner.

The title of Graduate in Home Economics will be conferred upon students who complete the two-year Vocational Teachers Course in Homemaking.

The degree of Master of Science is conferred upon agricultural or home economics graduates who complete at least one year of advanced study at the University and present an acceptable thesis on a topic approved by the agricultural faculty.

Certificates

Students who complete in a satisfactory manner the Short Course or Dairy Course will be granted appropriate certificates.

OUTLINE OF THE LONG COURSE IN AGRICULTURE

In calculating the hours per week for the various studies, two hours of laboratory, field, or barn practice count as one hour of classroom work, which is the equivalent of one credit in this outline. Required subjects outside the College of Agriculture (marked L

& S) will be found catalogued under the College of Letters and Science.

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a (L & S)	3	English 1b (L & S)	3
Chemistry 1a (L & S)	5	Chemistry 1b (L & S)	5
Physics 61 or Botany 1 (L & S)	5*	Botany 1 or Physics 61 (L & S)	5*
Animal Husbandry 1 or Agronomy 1	3*	Agronomy 1 or Animal Husbandry 1	3*
Total	16	Total	16
Military Drill		Military Drill	
Physical Education		Physical Education	
Convocation			

Sophomore Year

Chemistry 11 Ag. (Quan.) (L & S)	3	Agr. Chemistry 1 and 2	5
Zoology 3 (L & S)	3	Silos 1	5
Agr. Bacteriology 1	5	Mathematics 71 (L & S)	4†
Agricultural option	3	Agricultural option	3
Electives	2		
Total	16	Total	17
Military Drill		Military Drill	
Physical Education		Physical Education	

Junior Year

Agricultural Economics 1	5	Botany 146 or Physiology 3 (L & S)	4‡
Electives	12	Electives	13
Total	17	Total	17

Senior Year

Major	5	Major	5
Electives	12	Electives	12
Total	17	Total	17

*Students will elect one of these subjects the first semester of the freshman year and will be required to take the alternate subjects in 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.

‡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—Economics 1b
Agricultural Journalism—Economics 1b
Agricultural Engineering—Advanced Mathematics
Agricultural Education—Psychology 1 and Education 90

Agricultural Options. The student must choose one course from each of the following groups:

First Semester	Credits	Second Semester	Credits
Agricultural 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 was chosen the first semester, it cannot be chosen as the optional subject for the second semester.

The total requirements for graduation are 133 credits in addition to military drill, convocation and physical education. The same number of grade points (133) are also required for graduation. See p. 81.

Electives to the amount of ten credits must be taken outside the College of Agriculture, and with the approval of the advisor, students may elect as many as forty credits outside the College.

Students of the Long and Middle Courses may take sixteen to eighteen credits each semester, exclusive of drill and physical education. Electives may be added to make a total of twenty credits provided the student has received a standing of at least 85 per cent in each subject for the preceding semester.

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. 301.

OUTLINE OF MIDDLE COURSE IN AGRICULTURE

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a (L & S)	3	English 1b (L & S)	3
Chemistry 1a (L & S)	5	Chemistry 1b (L & S)	5
Animal Husbandry 1 or Agronomy 1	3*	Agronomy 1 or Animal Husbandry 1	3*
Agricultural option	3†	Agricultural option	3†
Elective	2	Elective	2
Total	16	Total	16
Military Drill		Military Drill	
Physical Education, Convocation		Physical Education	

*Students will elect one of these subjects the first semester and the other will be required in the second semester.

†See "Agricultural Options", above.

Sophomore Year

First Semester	Credits	Second Semester	Credits
Agr. Bacteriology 1	5	Agr. Chemistry 1	3
Soils 3	3	Electives	14
Electives	9		
Total	17	Total	17
Military Drill		Military Drill	
Physical Education		Physical Education	

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 of military drill and gymnasium work.

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. 301.) A maximum of six elective credits may be taken outside the College of Agriculture.

Students taking the Middle Course and desiring to transfer to the Long Course must be prepared to spend more than the usual four years in order to complete the requirements.

Special Adaptations of Agricultural Courses for the Preparation of Teachers

Middle Course

Graduates of the Middle Course who complete Education 90 for two credits; the course in Agricultural Education 1, four credits; Agronomy 140 for two credits and Animal Husbandry 128, two credits, will be recommended by the Director of the School of Education to receive a special license to teach agriculture in the schools of Wisconsin.

Long Course

Graduates of the Long Course properly registered in the School of Education presenting credit in the following special work will be entitled to receive the University Certificate in Agriculture upon recommendation of fitness by the professor of agricultural education: Philosophy 1, three credits; Agricultural Education 1, four credits; Education 90, two credits, Education A, two credits; Animal Husbandry 128, two credits; Agronomy 140, two credits.

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 and the University Certificate in Agriculture: Philosophy 1, three credits; Education 41 or 11, three credits; Education 90, two credits; Agricultural Education 1, three credits, Education A, two credits, and Animal Husbandry 128 or Agronomy 140, two credits.

OUTLINE FOR COURSES IN HOME ECONOMICS

The Department of Home Economics offers the following courses which deal with the principles which underlie the proper management of the home, care of children, hygienic and sanitary conduct of institutions, and the economic conditions affecting the work of women.

The courses are planned to meet the needs of six classes of students:

1. Those students who desire a general knowledge of the subject matter as a basis for application in the study of the general arts and sciences as a part of a liberal education;
2. Those students who desire to make a detailed study of home economics in its relation to the arts and sciences which are fundamental in the management of the home;
3. Those students who wish to teach home economics in the secondary schools and in higher institutions;
4. Graduate students who have the requisite knowledge to benefit by research in subjects connected with the home;
5. Those who wish to prepare themselves for other vocations than teaching or 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 of the four-year courses entering with two units of foreign language must take at least 8 credits of advanced language in the University. Students entering with no foreign language will be required to take 16 credits in foreign language in the University. The 8 credits of beginning language will be counted as electives.

Women taking the Course in Home Economics are granted the same privileges of residence in Chadbourne Hall and Barnard Hall, the women's dormitories, and in the use of the women's gymnasium, etc., as other women of the University.

Required Work for Freshmen and Sophomores in all Majors

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a (L & S)	3	English 1b	3
Foreign Language, 2d year	4	Foreign Language, 2d year	4
Chemistry 1a (L & S)	5	Chemistry 1b	5
Home Economics 2	3	Home Economics 3	3
Home Economics 9	1	Physical Education	
Convocation, Physical Education			
Total	16	Total	15

Sophomore Year

Physics 65 (L & S)	3	Physics 65 (L & S)	3
Agricultural Chemistry 3	5	Bacteriology 4	5
Physiology 1a (L & S)	3	Home Economics 50	3
Home Economics 5	2	Electives	4
Electives	2	Physical Education	
Physical Education			
Total	15	Total	15

Majors in Home Economics

At the beginning of the junior year, the student may choose one of the majors indicated in the following paragraphs. The requirements for a major in home economics are not less than 25 credits nor more than 32 credits in strictly home economics subjects inclusive of the thesis taken during the junior and senior years.

Major in General Course

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 11	3	Home Economics 8	4
Home Economics 7	5	Home Economics 6	4
Home Economics 4	3	Home Economics 11	3
Electives	4	Electives	4
Total	15	Total	15

Senior Year

Home Economics 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 (31–33 free electives):

A. As a part of a liberal education: Economics—elements of economics, social psychology, poverty and relief, methods of social service, statistics; **History**—medieval, United States, English, ancient, history of the West; **English**—general survey, study of literature, Shakspere; **Art**—fine arts.

B. For those preparing to become instructors of general home economics in high school or vocational school; Teachers certificate requirements: Philosophy—psychology; **Education**—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	4
Home Economics 7	4	Electives, in any college	11
Electives, in any college	8		
Total	15	Total	15

Senior Year

First Semester	Credits	Second Semester	Credits
Home Economics 110	4	Home Economics 109	4
Home Economics 125	3	Thesis	2
Thesis	2	Electives, in any college	9
Electives, in any college	6		
Total	15	Total	15

Group Electives (in addition to requirements of food major). (35 free electives)

A. Instructor in college or in high school: See requirements for teachers certificate, page 254.

B. Dietitian in hospital or in public or private clinic: Chemistry—quantitative analysis, organic chemistry; **Economics**—elements of economics, social psychology, poverty and relief; **Psychology**—course 1 and experimental psychology for premedical students; **Physiology**—physiological chemistry; **Medicine**—histology and organology, advanced clinical laboratory work.

C. Hospital administration: Those taking a food major may elect courses in physiological chemistry, pharmacology, anatomy, clinical medicine and hospital practice which will equip them to meet the requirements for the bachelor of science degree and part of the requirements for the registered nurse certificate. The hospital practice work will be taken in connection with the Bradley Memorial Hospital, the University Infirmary and local and state hospitals. To fulfill the requirement for a registered nurse each student must take one graduate year in residence in an approved hospital. Suggested electives are botany, zoology, organic chemistry, quantitative chemistry, embryology, history, English literature, pyschology, economics. (Elementary Latin equivalent to two years in high school should have been taken before beginning this course. A reading knowledge of French is desirable.)

D. Institution economics: Economics—elements of economics, elements of accounting, theory and practice of accounting, cost accounting, social psychology, poverty and relief.

E. Assistant food chemist (in board of health or commercial laboratory): **Chemistry**—quantitative analysis, organic chemistry, water analysis, chemistry of foods and their adulterations; **Bacteriology**—bacteriological technique, food bacteriology.

F. Research in nutrition: college, sanitarium, or food manufacturing company: Chemistry—quantitative analysis, organic chemistry; **Zoology**—microscopic anatomy and micro-technique; **Anatomy**—histology and organology; **Clinical Medicine**—advanced clinical laboratory work; **Physiology**—physiological chemistry; **Home Economics**—research, topical work.

G. Applied bacteriology. Students who minor in food may include beyond their sophomore year such detailed work in applied bacteriology as will equip them to become bacteriological technicians in the various laboratories maintained in connection with municipal water and sewerage plants, with manufactories of biological products, with milk plants, as well as with public health laboratories, hospital laboratories, private laboratories in physicians' offices, and in laboratories in connection with public and

private sanatoria. There is a constantly growing demand for such technicians, and many of the home economics graduates have found the work both attractive and stimulating. In addition to the required work as indicated in the outline for junior and senior years, on the advice of the major professor, appropriate electives may be taken in zoology, botany, plant pathology or chemistry.

Major in Applied Bacteriology

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 4	3	Home Economics 6	3 or 4
Home Economics 7	4 or 5	Zoology 111	3
Agricultural Bacteriology*..	3	Agricultural Bacteriology*..	4
Electives†	6 or 5	Electives†	5
Total	15	Total	15

Senior Year

Home Economics 110	3	Home Economics 109	4
Chemistry 113	1	Electives	9
Thesis	2	Thesis	2
Electives†	9		
Total	15	Total	15

Major in Textiles

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 7	4	Home Economics 8	4
Home Economics 11	3	Home Economics 11	3
Electives, in any college	8	Electives, in any college	8
Total	15	Total	15

Senior Year

Home Economics 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

*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.

†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.

**Six credits must be elected from the following courses: Home economics 20, 32, 96, 97, 101, 102, 103, 104.

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 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.

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 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.

*Must be taken in excess of 120 credits for graduation.

Study of standards is provided in connection with the practice cottage which is a laboratory in connection with the Home Economics Department. Home experience is essential.

The following outline is the work of the junior and senior years in the Vocational Education Major:

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 11	3	Home Economics 11	3
Home Economics 7	3	Home Economics 6	4
Home Economics 72	2	Home Economics 74	2
Home Economics 4	3	Education	3
Electives	5	Electives	3
Total	16	Total	15

Senior Year

Home Economics 110	3	Home Economics 109	4
Home Economics 125	3	Home Economics *	2
Home Economics 96	2	Education A	2
Electives†	8	Home Economics 124	2
		Electives†	5
Total	16	Total	15

Two Year Course for Training Vocational Teachers in Home-Making

In addition to the four year course the University is offering temporarily a two-year course designed to equip teachers in the vocational schools of the state, the requirements for which are at present a general education including graduation from an accredited high school, two years' practical experience including a reasonable period of supervised homemaking, and a satisfactory completion of at least an approved two-year teacher training course.

Students were admitted to this course on the same basis as are students in the other courses in the University; namely, graduation from a high school course. Students entering this course and deciding later to transfer to the four-year course in Home Economics

†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 clothing for children, care and feeding of children, hand and machine sewing for teachers, or costume design.

can secure credit on the same basis as students from other two year normal and junior college courses, as 58 of the 68 credits listed are applicable toward the 120 credits required for the degree of Bachelor of Science in Home Economics.

The title of Graduate in Home Economics will be conferred upon students who complete this Vocational Teachers Course in a satisfactory manner.

On completion of the course, and on recommendation of fitness by the Department of Home Economics, a graduate will be certificated to the State Board of Vocational Education, who on approval of the student's record will issue a certificate as instructor in Vocational Courses in Homemaking.

The course will be discontinued at the end of the present year 1920–21.

OUTLINE OF THE TWO-YEAR COURSE

First year work discontinued.

Second Year

Physiology 1	3	Agr. Bacteriology	4
Psychology 1	3	Home Economics 43	1
*Home Economics 35	2	Home Economics 96	2
*Home Economics 42	1	Home Economics 1b	3
*Home Economics 46	2	*Home Economics 124	2
*Home Economics 31b	3–2	Education A	2
Home Economics 1a	3–4	Home Economics 109	2
		Home Economics 72	1
Total	17	Total	17

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, 4, or 40, and other related courses to make 15 to 20 credits.

(2) The minor in textiles must include Home Economics 2, 5, 11, and other related courses to make 15 to 20 credits.

(3) The minor in housing problems is intended to be taken with a major or minor in sociology so that those intending to do the

*Courses that do not apply toward the 120 credits required for the degree of Bachelor of Science in Home Economics.

work of sanitary inspector or other social settlement work will have a broad foundation knowledge of the fundamental problems in housing conditions. This minor includes Home Economics 1a, 1b, 70 and 74.

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, pp. 244ff.

Educational Requirements for State Teachers Certificate

Major—In the general major, the food major, the textile major, or the vocational major the minimum requirements in home economics subjects taken during the junior and senior year are twenty-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 required for graduation. During the sophomore year three credits in Philosophy 1 should be taken, and during the junior and senior years nine credits in education should be taken. Of these, two credits may be in the departmental teachers courses; the others in approved courses in education including Education A. A minimum of 15 credits of professional work, including one course in psychology, is required for the University Certificate in Home Economics.

Minors—A minimum of fifteen to twenty credits. A minor may be taken in foods, textiles, or housing problems.

(1) A teaching minor in food must include the teachers course, Home Economics 121 or 124 in addition to Home Economics 1a, 3,

4 or 40 and such other related courses as to make fifteen to twenty credits in strictly home economics subjects.

(2) A teaching minor in textiles must include the teachers course, Home Economics 121 or 124, Home Economics 2, 5, 50, 11, and other courses in home economics to complete twenty credits. A non- teaching minor may include the teachers course.

Departmental Teachers Course

Home Economics 121. The teaching of home economics in high schools. Prerequisite: a major or minor in home economics. 2 cr. Miss Comstock, Miss Dodge.

Home Economics 124. Vocational education. History and methods. 2 cr. Miss Arbogast, Miss Marlatt.

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.

DEPARTMENTS OF INSTRUCTION

LONG AND MIDDLE COURSES IN AGRICULTURE AND COURSE IN HOME ECONOMICS

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

AGRICULTURAL BACTERIOLOGY

PROFESSORS FRED, FROST, HASTINGS (CHAIRMAN); ASSISTANT PROFESSOR WRIGHT; INSTRUCTORS BACHMANN, FRAZIER; ASSISTANTS ANDERSON, LOTTES, SCHROEDER, WILSON.

The courses are planned to meet the needs (1) of students who desire to obtain an idea of the general relations of micro-organisms to natural processes; (2) of students intending to devote themselves to the study of dairy husbandry, soils, veterinary medicine, or foods; (3) of students wishing to prepare themselves for instructional or research work in general or applied bacteriology.

For Undergraduates

1. General Survey. I; 5 cr. Mr. Hastings.

2. General Survey. II; 3 cr. For students in the chemical course. Mr. Wright.

4. General Survey. II; 3 cr. For students in home economics. Mr. Frost, Miss Bachmann.

Thesis. Yr.; 2 cr. Prerequisites: courses 1 or 4 and 124 and either 121, 123, or 125. Mr. Fred, Mr. Frost, Mr. Hastings.

For Undergraduates and Graduates

121. Dairy Bacteriology. II; 3 cr. Prerequisite: course 1, 2 or 4. Mr. Hastings.

123. Soil Bacteriology. I; 4 cr. Prerequisite: course 1, 2 or 4. Mr. Fred.

124. Technique. II; 3 cr. Prerequisite; course 1, 2 or 4. Mr. Wright.

125. Food Bacteriology. I; 3 cr. Prerequisite: course 1, 2 or 4. Miss Bachmann.

130. Determinative Bacteriology. I and II; 2 or more cr. Prerequisites: 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 either 121, 123, or 125.

231. Seminary. Yr.; 1 cr.

AGRICULTURAL CHEMISTRY

Emeritus Professor Babcock; Professors Hart (chairman), Steenbock; Associate Professors Peterson, Tottingham; Instructor Nelson; Assistants Bethke, Brunkow, Epstein, Jones, Hoppert, Koehler, Lepkovsky, Sell, Verhulst. Student Assistants, Rankin, Roehm.

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 is a desired prerequisite. All other advanced courses in this department are open to undergraduates and graduates who have had the necessary preliminary training.

For Undergraduates

1. Agricultural Chemistry. II; 3 cr. Mr. Hart.

2. Agricultural Analysis. II; 2 cr. Mr. Tottingham.

3. Household Chemistry. I; 5 cr. Mr. Peterson.

Thesis. Yr.; 2 cr. May be taken in plant, animal, dairy or fermentation chemistry. Mr. Hart, Mr. Steenbock, Mr. Peterson, Mr. Tottingham.

For Undergraduates and Graduates

120. Plant Chemistry. II; 2 or 5 cr. Mr. Tottingham.

121. Dairy Chemistry. I; 2 or 5 cr. Mr. Hart.

122. Animal Chemistry. I; 2 or 5 cr. Mr. Steenbock.

123. Advanced Household Chemistry. II; 3 cr. Mr. Peterson.

124. Advanced Bio-Chemistry. I or II; cr. to be arranged. Mr. Hart, Mr. Steenbock.

125. Sugar Beet Analysis. I; 2 cr. Mr. Nelson.

126. Chemistry of Fungicides and Insecticides. I; cr. to be arranged. A course designed for students in plant pathology, horticulture, and entomology. Mr. Steenbock.

For Graduates

230. Plant Nutrition. Yr.; hours to be arranged. Mr. Tottingham.

231. Animal Nutrition. Hours to be arranged. Mr. Hart, Mr. Steenbock.

232. Advanced Dairy Chemistry. Yr.; hours to be arranged. Mr. Hart.

233. Seminary. Yr.; 1 hr. Mr. Hart, Mr. Steenbock.

AGRICULTURAL ECONOMICS

Professors Hibbard (chairman), Macklin; Associate Professor McNall; Assistant Professor Donald; Instructors Kolb, Mendum; Assistants Benton, Gabbard; Lecturer, Mr. Riley, Mr. Tetreau.

Fellow, Mr. Englund.

Scholar, Mr. Shear.

The courses in agricultural economics are intended to give the student a knowledge of the economic principles which relate to the production and marketing of farm products, and to the economic condition of the agricultural classes.

Students who wish to prepare themselves for practical work as farm managers and as citizens interested in agriculture will find courses 1, 8, 10, 12, and 128 adapted to their needs.

Students who wish to prepare for positions in agricultural marketing will find courses 1 and 128 in agricultural economics, and courses 1b, 5, 8a, 11, 12, 13, 15, 109a, 109b, 130, 135, 136, 181 and 182 in economics adapted to their needs.

Students who wish to prepare for positions as teachers and research workers in the field of agricultural economics will find it desirable to elect courses 224 to 240. Such students should elect courses in the Department of Economics to round out their work. Courses 1b, 8a, 8b, 101, 130, 135, 122, 123, 145, 146, 200, 201, 202, 220, 221, 222, 223, and 226 are available for this purpose.

For Undergraduates

1. Principles of Agricultural Economics. I; 5 cr. Mr. Hibbard and staff.

8. Farm Records and Accounts. I or II; 2 cr. Mr. McNall.

10. Farm Organizations and Methods. II; 3 cr. Mr. McNall.

25. Rural Life. II; 2 cr. Mr. Kolb.

Thesis. Yr.; 2 cr. Mr. Hibbard, Mr. Macklin.

For Undergraduates and Graduates

102S. Traveling Field Course in Farm Management. 6 cr. Six weeks in the field. Arrangement must be made in advance. Mr.

128. Marketing Farm Products. II; 3 cr. Prerequisite: course 1, or equivalent. Mr. Macklin.

130. Farm Credit. II; 2 cr. Mr. Hibbard.

132. Farmer Movements. II; 2 cr. Mr. Hibbard.

135. Cost Accounting on Farms. II; 2 cr. Mr. McNall.

For Graduates

224. The Premises of Agricultural Economics. I; 2 cr. Mr. Hibbard.

225. Rural Social Organization. I; 2 cr. Mr. Kolb.

226. Land Tenure. Yr.; 2 cr. Mr. Ely, Mr. Hibbard.

227. Economic History of Agriculture. II; 2 cr. Mr. Hibbard.

240. Research. Opportunity to do research under personal supervision as follows:

On country life. Mr. Kolb.

On cooperation, and marketing. Mr. Macklin.

On cost accounting and its relation to farm management. Mr. Mendum.

On farm surveys and financial accounts in their relation to farm management. Mr. McNall.

On the history of agricultural production, and on farm credit. Mr. Hibbard.

241. Seminary in Marketing. II; 2 cr. Mr. Macklin.

242. Seminary in Country Life. I; 2 cr. Mr. Tetreau.

AGRICULTURAL EDUCATION

PROFESSORS HATCH, JAMES (CHAIRMAN); ASSOCIATE PROFESSOR MORTIMER; ASSISTANT PROFESSORS BEWICK, TIFFANY.

The courses in agricultural education are for students who expect to teach agriculture in college, normal, high school or vocational schools or to engage in agricultural extension as a county agent or extension specialist.

For Undergraduates

1. Agricultural Education. II; 4 cr. Mr. James, Mr. Tiffany.
5. Boys' and Girls' Club Work. I; 2 cr. Mr. Bewick.

For Undergraduates and Graduates

103. Seminary. Yr.; cr. to be arranged. Mr. Hatch, Mr. James, Mr. Tiffany.
103S. Agricultural Extension Methods and Problems. 2 cr. Mr. Hatch.
105S. Vocational Agriculture. 2 cr. Mr. James, Mr. Tiffany.
110. Training Course for County Agents. II; 2 cr. Mr. Hatch.
128. The Teaching of Animal Husbandry. (Animal Husbandry 128). I; 2 cr. Mr. James.
140. The Teaching of Plant Husbandry. (Agronomy 140). II; 2 cr. Mr. Mortimer.
200. Special Problems (Research). Cr. to be arranged. Mr. Hatch, Mr. James.
Thesis. Yr.; 2 cr. Mr. Hatch, Mr. James.

AGRICULTURAL ENGINEERING

PROFESSOR E. R. JONES (CHAIRMAN); ASSOCIATE PROFESSOR SWENEHART; ASSISTANT PROFESSORS DUFFEE, ZEASMAN; ASSISTANTS ELLIOTT, FARDY, FISH, WALSH and WOLF.

This department has unusual facilities for giving laboratory and field work under actual farm conditions. The courses prepare students of farm machinery, power machinery, farm buildings, land clearing and land drainage for general farm work, for expert service in commercial enterprises and for teaching or research. Lectures and textbook work accompany the practical work in each course.

Students specializing in agricultural engineering are advised to supplement this work with courses in higher mathematics and mechanics in the College of Engineering.

Course 1 is the only course open to freshmen.

For Undergraduates

1. Land Surveying and Drainage. I; 3 cr. Optional subject for agricultural students. Mr. Jones.

2. Farm Structures. I; 2 or 3 cr. Mr. Fish.

3. Power Machinery. I or II; 3 cr. Mr. Duffee.

4. Concrete Construction. II; 2 cr. Mr. Zeasman.

5. Farm Machinery. II; 3 cr. Mr. Duffee.

6. Land Drainage. I; 3 cr. Mr. Jones.

8. Domestic Engineering. I; 2 cr. Mr. Zeasman.

Thesis. Yr.; 2 cr. Mr. Jones and staff.

For Undergraduates and Graduates

101. Advanced Gas Engines and Farm Tractors. I or II; 2 cr. Prerequisite: course 3. Mr. Duffee.

***102. Drainage Design.** II; 2 cr. Prerequisite: course 1 or 6. Mr. Jones.

***103. Advanced Farm Machinery.** I; 3 cr. Prerequisite: course 5. Mr. Duffee.

***120. Research.** Yr.; cr. to be arranged. Mr. Jones and staff.

Electives in the College of Agriculture given in the College of Engineering

7. Country Roads. I; 1 cr. Mr. Smith.

13. General Carpentry. I or II; 1 cr. Mr. Sullivan.

14. General Forge and Bench Work. I or 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. Mr. Corp.

AGRICULTURAL JOURNALISM

Professor Hopkins (chairman); Assistant Professor Sumner; Instructor Langdon; Assistant Nafziger.

The power to express themselves in simple, understandable English is becoming an increasingly valuable asset of the teacher,

*See Long Course Circular.

extension worker, county and home demonstration worker, and farmer. To render the greatest service the technically trained graduate must know how to write, the extension worker must use the printed page to encourage effectively the use of better methods, the farmer must be able to write advertisements and write farm sales letters.

For Undergraduates

1. Writing Farm Stories (section 1). I; 2 cr.
1. Writing Home Economics Stories (section 2). I; 2 cr.
2. Practice in Editing. Yr.; 1 cr.
3. Agricultural Publicity and Advertising. Yr.; 4 cr.
4. The History of Farm Papers. II; 1 cr.
5. Writing and Editing Farm Bulletins. II; 2 cr.
Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

140. Methods and Problems. II; cr. to be arranged.

AGRONOMY

PROFESSORS R. A. MOORE (CHAIRMAN), DELWICHE; ASSOCIATE PROFESSORS GRABER, LEITH, MORTIMER; ASSISTANT PROFESSORS STONE, WRIGHT; INSTRUCTORS ALBERTZ, HOLDEN; ASSISTANT TIEDJENS.

The courses in agronomy are designed to give a thorough understanding of the general and scientific principles which underlie the production of farm crops, and to prepare students for instructional and research work in agronomy.

For Undergraduates

1. General Farm Crops. I or II; 3 cr. Mr. Mortimer.
2. Forage Crops. II; 3 or 5 cr. Mr. Moore, Mr. Graber.
3. Sugar, Fiber, and Canning Crops. I; 2 cr. Mr. Wright.
Thesis. Yr.; 4 cr. Mr. Moore and staff.

For Undergraduates and Graduates

101. Research. Credit to be arranged. Offered at Madison and the branch experiment station. Permission of instructor required. Mr. Moore and staff.

102. Grasses and Pastures. I; 2 cr. Prerequisite: course 1. Mr. Mortimer.

104. Cereals. I; 3 cr. Prerequisite: course 1. Mr. Leith.

120. Seed and Weed Identification and Control. I; 3 cr. Prerequisite: course 1. Mr. Stone.

121. Advanced Crop Judging. II; 2 cr. Prerequisite: course 1. Mr. Mortimer.

130. Plant Breeding. II; 3 cr. Prerequisites: Botany 1 and Agronomy 1. Mr. Leith.

131. Seminary. Yr.; 1 cr. Permission of instructor required. Mr. Moore and staff.

140. The Teaching of Plant Husbandry. II; 2 cr. Prerequisite: course 1. Mr. Mortimer.

ANIMAL HUSBANDRY

Emeritus Professor Henry; Professors Fuller, Humphrey (chairman), James, Morrison; Associate Professor Hulce; Assistant Professors Bohstedt, Kleinheinz; Instructors Cramer, Fargo, Harris.

For Undergraduates

1. Elementary Live Stock Judging. I; 3 cr. Mr. Fuller, Mr. Hulce, Mr. Fargo.

2. Live Stock Management. I; 2 cr. Mr. Fuller and staff.

Thesis. Yr; 2 cr. Mr. Bohstedt, Mr. Fuller, Mr. Harris, Mr. Hulce, Mr. Humphrey, Mr. Morrison.

For Undergraduates and Graduates

120. History of Breeds. II; 3 cr. Required of students majoring in animal husbandry. Prerequisite: course 1. Mr. Fuller.

124. The Art of Breeding. II; 2 cr. Prerequisites: course 1, 2. Required of students majoring in animal husbandry. Mr. Bohstedt.

126. Live Stock Feeding. 3 cr. Required of students majoring in animal husbandry. First semester for Middle Course students with no prerequisite; second semester for Long Course students. Prerequisite: course 1. Mr. Fargo, Mr. Morrison.

127. Live Stock Pedigrees. II; 2 cr. Prerequisites: courses 1 and 120. Mr. Fuller.

128. The Teaching of Animal Husbandry. I; 2 cr. For students electing work toward a University Teachers Certificate. Mr. James.

130. Swine and Sheep. I; 3 cr. Prerequisites: courses 1 and 2. Mr. Fuller, Mr. Kleinheinz.

131. Horses. I; 2 cr. Prerequisites: courses 1 and 2. Mr. Fuller.

132. Beef and Dairy Cattle. II; 3 cr. Prerequisites: courses 1 and 2. Mr. Fuller, Mr. Hulce.

135. Animal Husbandry Seminary. 1 cr. Mr. Morrison.

140. Field Problems. Yr.; 3 or 4 cr. Work to be done *in absentia* by students supervising cow testing associations and having had two years of agricultural college work. Mr. Harris, Mr. Hulce, Mr. Humphrey.

For Graduates

230. Live Stock Practice and Problems. Yr.; 1 to 3 cr. For graduates and students majoring in animal husbandry. Prerequisites: course 1, 120, 124, 126. Mr. Humphrey and staff.

DAIRY HUSBANDRY

Professor Farrington (chairman); Associate Professor Sammis; Assistant Professor Sommer; Instructor Thomsen.

The department offers instruction in the theory and art of manufacturing dairy products, suited to the needs of (a) farm dairymen, (b) investigators or teachers, (c) managers, operators, or inspectors of creameries, cheese factories, or city milk plants. Students intending to major in this department should elect courses 2 and 3 or 4 at the beginning of the junior year.

For Undergraduates

1. General Farm Dairying. II; 3 cr. Optional subject. Lectures, Mr. Farrington; laboratory, Mr. Thomsen.

2. Advanced Milk Inspection. I; 3 cr. Prerequisite: course 1. Lecture, Mr. Farrington; laboratory, Mr. Sommer.

3. Creamery Buttermaking and Dairy Machinery. Yr.; 3 cr. Lecture, Mr. Farrington; laboratory, Mr. Thomsen.

4. Cheese Making. Yr.; 3 cr. Mr. Sammis and assistants.

5. City Milk Supply and Ice Cream Making. II; 3 cr. Prerequisite: course 2. Lectures and laboratory. Mr. Sommer.

Thesis. Yr.; 2 cr. Prerequisites: courses 2 and 3, 4 or 5. Mr. Farrington and staff.

For Undergraduates and Graduates

102S. Dairy Practice. 1 cr. for each forty-eight hours of work, with a maximum of 4 credits. Prerequisite: course 1. Mr. Farrington.

120. Advanced Market Milk Problems. Yr.; 3 or 5 cr. Prerequisite: courses 2 and 5. Mr. Sommer.

121. Advanced Butter Yield and Quality. Yr.; 3 to 5 cr. Prerequisites: course 2 and 3. Mr. Farrington.

122. Cheese Making and Curing. Yr.; 3 or 5 cr. Prerequisite: course 4. Mr. Sammis.

ECONOMIC ENTOMOLOGY

Professor Wilson (chairman); Assistant Professor McMurry; Instructors Fluke, Hambleton.

The courses provided in this department are designed primarily to meet the needs of students specializing in other departments. Advanced and special students are expected to be able to do more or less original research upon their own initiative. The course in beekeeping includes both laboratory and field work and special trips are made to apiaries in the vicinity of Madison.

For Undergraduates

1. Farm Insects. II; 3 cr. Optional subject. Mr. Fluke.

7. Household Insects. I; 2 or 3 cr. Mr. Hambleton.

10. Elementary Beekeeping. II; 2 cr. For advanced work see Course 110. Mr. Wilson, Mr. Hambleton.

Thesis. Yr.; 2 cr. For advanced and graduate students specializing in entomology. Mr. Wilson.

For Undergraduates and Graduates

103. Orchard Insects. I; 3 cr. Prerequisite: course 1 or Zoology 3. (Given 1920–21 and alternate years.) Mr. Fluke.

110. Advanced Beekeeping. II; 2 or 5 cr. A continuation of course 10. Mr. Wilson, Mr. Hambleton.

115. Seminary. Yr.; 1 cr. For advanced and graduate students. Mr. Wilson.

120. Research Work. Yr.; cr. to be arranged. Mr. Wilson, Mr. Fluke, Mr. Hambleton.

GENETICS

PROFESSOR COLE (CHAIRMAN); ASSISTANT PROFESSOR LINDSTROM; ASSISTANTS LUSH, SENN, BETHKE.
FELLOW, MR. JULL.

The following courses are designed for those who desire a general knowledge of the subjects of heredity and breeding, or who contemplate following these lines, either from the theoretical or practical point of view. Special opportunity is offered those doing advanced work to get practical experience in the methods of experimental breeding.

For Undergraduates

1. Principles of Genetics. I; 2 or 3 cr. Mr. Cole, Mr. Lindstrom.
Thesis. Yr.; 2 cr. Mr. Cole, Mr. Lindstrom.

For Undergraduates and Graduates

101. Principles of Genetics. I; 2 cr. Lectures and other work of course 1 with laboratory additional. Mr. Cole, Mr. Lindstrom.
104. Plant Genetics. I; 3 cr. Prerequisites: Genetics 1 or equivalent in Departments of Botany or Zoology. Mr. Lindstrom.
105. Animal Genetics. II; 2 cr. Prerequisite: Same as for Genetics 104. Mr. Lindstrom.
106. Brometric Methods. II; 1 cr. Prerequisite: same as for Genetics 104. Mr. Lindstrom.
120. Seminary. Yr.; 1 cr. Consent of instructor required before election. Mr. Cole.
121. Topical Work. Yr.; 2, 3 or 4 cr. Mr. Cole, Mr. Lindstrom.

For Graduates

225. Research. Yr.; cr. to be arranged. Mr. Cole, Mr. Lindstrom.
For other courses in heredity and evolution see Botany 154 and 156, and Zoology 6 and 107 in the College of Letters and Science.

HOME ECONOMICS

PROFESSOR MARLATT (DIRECTOR); ASSOCIATE PROFESSOR KRUEGER; ASSISTANT PROFESSORS ARBOGAST, COWLES, DODGE, HILLSTROM, LEONARD, MANNING, PARSONS, ROBERTS; INSTRUCTORS COMSTOCK, DAVIS, LAKE, NEUSBAUM, STRANG, TYLOR, WHITE; ASSISTANTS LEAVITT, STEWART.

FELLOW, MISS ANN BRAUN.

For Undergraduates

1. General Survey. House Management. Yr.; 3 or 6 cr. Miss Marlatt, Miss Cowles.

2. Art and Design. I or II; 3 cr. Miss Hillstrom, Miss Strang, Mrs. Tylor.

3. Introduction to Food Study. II; 3 cr. Prerequisite: entrance credit in physics or chemistry or first semester of Chemistry 1. Miss Marlatt and staff.

4. Economic Problems of the Food Supply. I; 3 cr. Continuation of course 3. Prerequisites: Agricultural Chemistry 3, Home Economics 3. Miss Roberts, Miss Lake.

5. Introduction to Textile Study. I; 2 cr. Miss Arbogast, Miss Leavitt.

6. Nutrition and Dietetics. II; 4 cr. Prerequisites: Home Economics 3, 4, Physiology 1, Bacteriology 4, Chemistry 1, Agricultural Chemistry 3. Miss Parsons, Miss Braun.

7. House Architecture and Sanitation. I; 5 cr. Prerequisites: Physics 1, Bacteriology 4, Home Economics 2. Miss Cowles, Mrs. Tylor.

8. Household Decoration. II; 4 cr. Prerequisites; Home Economics 2, 7, or Manual Arts 62. Miss Hillstrom.

9. Introduction to Home Economics. I; 1 cr. Lecture course required of freshmen in Home Economics. Home Economics Faculty.

11. Manufacture and Selection of Clothing. Yr.; 6 cr. Prerequisites: Home Economics 2 and 5. Miss Manning, Miss Leavitt.

20. Costume Model Course. I and II; 3 cr. Miss Strang.

32. Clothing for Children. II; 2 cr. Miss Arbogast.

40s. Food Study and Cookery. I; 4 cr. Vocational Education. Miss Dodge.

47. Care and Feeding of Children. II; 3 cr. Miss Parsons.

50. Textiles. II; 3 cr. Prerequisites: Chemistry 1, Agricultural Chemistry 3, Home Economics 5. Miss Roberts.

70. Housing the Worker. II; 2 cr. Miss Cowles.

72. Home Nursing. I; 1 or 2 cr. University Hospital staff.

74. Decoration of the Home. II; 2 cr. Miss Strang.

91S. Millinery. 2 cr. Summer school only. Miss Arbogast.

92S. Organization of Courses in Hand and Machine Sewing for Teachers. 2 cr. Summer school only. Miss Arbogast.

94. Advanced Applied Design. I or II; 3 cr. Open to juniors or seniors and graduate students. Prerequisites: Home Economics 2 or Manual Arts 62 or equivalent. Miss Hillstrom.

96. Household Crafts. I; 1 cr. Miss Arbogast.

97. Costume Design. II; 4 cr. Prerequisites: Home Economics 11. Miss Manning.

98. Experimental Cookery. II; 1 cr. Open to upper class students in Home Economics. Miss Roberts.

For Seniors and Graduates

101. Research. Yr.; credit to be arranged. Miss Davis, Miss Parsons, Miss Roberts.

102. Topical Work. Yr.; credit to be arranged. May precede or be taken in connection with course 101. Miss Davis, Miss Krueger, Miss Manning, Miss Parsons.

103. Economic History of Textile Industry. I; 2 cr. Miss Krueger.

104. History of Costume in its Sociological Aspect. I; 2 cr. Miss Krueger.

105. Experimental Food Study. I; 2 cr. Limited to seniors and graduate students. Miss Marlatt.

109. Humanics. II; 1 to 4 cr. Open to seniors in Home Economics and seniors in the College of Letters and Science who have taken biology. Miss Marlatt.

110. Household Administration. I; 3 to 4 cr. Prerequisites: Chemistry 1, Agricultural Chemistry 3, Bacteriology 4, Physics 1 or 65, Home Economics 3. Miss Marlatt, Miss Krueger.

120. Seminary. II; 1 or more cr. Miss Marlatt, Miss Dodge.

121. Teachers Course. I or II; 2 cr. Prerequisites: home economics major or minor. Miss Dodge, Miss Comstock.

122. Cafeteria Management. I or II; 4 cr. For seniors and graduates in home economics. Miss Leonard, Miss White.

124. Vocational Education in Homemaking. II; 2 cr. Miss Marlatt, Miss Arbogast.

Education A. Vocational Education. Practice Teaching. I or II; 2 cr. Mr. Miller, Miss Marlatt, Miss Arbogast.

125. Dietetics in Disorders of Nutrition. I; 3 cr. Prerequisite: Home Economics 6. Required in major in food. Miss Parsons, Miss Neusbaum.

126. Extension Course in Home Economics. II; 2 cr. Miss Marlatt and staff.

For Graduates

222. Institution Economics. I or II; Limited to selected graduate students who will be allowed to study in connection with the University Commons.

223. Seminary on Housing Problems. I: 2 or 3 cr. Miss Marlatt.

HORTICULTURE

Professor J. G. Moore (chairman); Associate Professors Milward, Aust, Johnson; Assistant Professor Roberts; Instructor Brann.

Fellow, Mr. Schrader.

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.

2S. Teachers Horticulture. 2 cr. Mr. Moore.

3. Vegetable Gardening. II; 3 cr. Mr. Moore.

3S. School and Home Grounds Decoration. 2 cr. Mr. Aust.

4. Vegetable Forcing. I; 3 cr. Mr. Moore.

5. Small Fruit Culture. I; 1 cr. Mr. Moore.

*__6. Landscape Gardening.__ I; 3 cr. Mr. Aust.

7. Plant Propagation. II; 2 cr. Mr. Moore.

8. Floriculture. II; 3 cr. Designed for women. Mr. Moore.

9. Advanced Vegetable Forcing. II; 2 cr. Continuation of Horticulture 4. Prerequisite: course 4. Mr. Moore.

10. Farm Forestry. I; 2 cr. Mr. Aust.

11. Potatoes and Truck Crops. I; 2 cr. Mr. Milward and Mr. Moore.

Thesis. Yr. Mr. Aust, Mr. Johnson, Mr. Moore, Mr. Potter, Mr. Roberts.

For Undergraduates and Graduates

120. Plant Breeding. II; 3 cr. Prerequisite: Genetics 1 or equivalent. Mr. Potter.

121. Experimental Horticulture. Yr.; 2 to 5 cr. Mr. Aust, Mr. Moore, Mr. Roberts.

122. Systematic Pomology. I; 3 cr. Students electing this course should have had Horticulture 1 and 2. Mr. Moore, Mr. Schrader.

123. Systematic Olericulture. I; 2 cr. Prerequisite: Horticulture 3.

***125. Advanced Landscape Gardening.** II; 2 cr. Continuation of Horticulture 6. Mr. Aust.

PLANT PATHOLOGY

Professors L. R. Jones, (chairman) Keitt; Associate Professors Gilbert, Johnson, Vaughan; Assistant Professors Dickson, Walker; Curator Davis; Lecturer Humphrey; Instructors Brann, Tisdale; Assistants Bitterman, L. K. Jones, Monteith.

Fellow, Mr. Riker.

Scholars, Mr. Monteith, Mr. Streets.

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.

5. Crop Diseases and Their Control. I; 1 cr. Mr. Jones and Mr. Vaughan.

For Undergraduates and Graduates

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

102. Methods in Plant Pathology. I; 3 cr. Prerequisite: Plant Pathology 101. Mr. Keitt, Mr. Tisdale.

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

116. Diseases of Field Crops. II; 2 cr. Arranged to meet the needs of students specializing in plant pathology and agronomy. Mr. Dickson.

*See also College of Engineering for courses on city planning.

117. Diseases of Orchard Fruits. (Omitted 1920–21.)

118. Diseases of Small Fruits. II; 2 cr. Arranged to meet the needs of students specializing in plant pathology and horticulture. Mr. Keitt.

119. Diseases of Timber, and Forest Protection. (Omitted 1920–21.)

120. Diseases of Garden Crops. II; 2 cr. A study of the most important field and storage diseases of garden crops. Mr. Walker.

122. Fungicides in Relation to Host and Parasite. (Omitted 1920–21.)

For Graduates

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

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

223. Seminary. Yr.; 1 cr. Mr. Jones, Mr. Dickson.

225. Research. Cr. to be arranged. Mr. Jones, Mr. Keitt.

POULTRY HUSBANDRY

Professor Halpin (chairman); Assistant Professor Hayes, Instructor Reid; Assistant Johnson.

The Poultry Department is well equipped with houses for laying stock and for brooding chicks. It also has a very complete list of incubators, brooders, and other poultry machinery. The present stock consists of twenty varieties of chickens, three varieties of ducks, five breeds of geese, and one breed of guinea fowl.

For Undergraduates

1. Poultry Raising. I; 3 cr. Optional subject. Mr. Halpin, Mr. Reid.

2. Poultry Raising. II; 2 cr. Continuation of course 1. Mr. Reid.

3. Poultry Practice. Yr.; 1 to 3 cr. Mr. Halpin.

5. Artificial Incubation and Brooding. II; 1 to 3 cr. Prerequisite: course 2. Mr. Halpin, Mr. Johnson.

8. Market Poultry. I; 1 or 2 cr. Practice in fattening, killing, and dressing. Prerequisites: courses 1 and 3. Mr. Halpin, Mr. Johnson.

Thesis. 2 cr. Mr. Halpin.

For Undergraduates and Graduates

106. Poultry Judging. I; 3 cr. Mr. Halpin.

107. Advanced Poultry Management. II; 3 cr. Prerequisites: courses 1, 2, and 3. Mr. Reid.

120. Research Work. Yr.; cr. to be arranged. Mr. Halpin.

SOILS

PROFESSOR WHITSON (CHAIRMAN); ASSOCIATE PROFESSORS MUSBACH, TRUOG; ASSISTANT PROFESSORS GRAUL, HARMER, RICHARDS, STEWART, ULLSPERGER; INSTRUCTOR MALLOY.

Course 1 is prerequisite to all other courses except course 3.

Courses 1, 3, and 120 are general in character and are adapted to the needs of all students of agriculture. Advanced students specializing in this subject are advised to elect courses in chemistry, soil bacteriology, plant physiology, agronomy or geology, according to their special needs, during their senior and graduate years. The summer period is particularly suited to advanced work in soil fertility and courses are offered in the summer session for that reason.

For Undergraduates

1. Principles of Soil Physics and Fertility. II; 5 cr. Prerequisite: or accompanied by Chemistry 11 Ag. Mr. Harmer.

1S. Elementary Soils. 3 cr. Prerequisite: a course in general chemistry. Mr. Harmer.

3. Soil Physics and Fertility; Brief Course. II; 3 cr. Required of freshmen, Middle Course. Mr. Stewart.

Thesis. Yr.; 2 cr. Mr. Whitson and staff.

For Undergraduates and Graduates

120. Soil Management. II; 2 cr. Mr. Whitson.

121. Soil Analysis. I; 3 or 5 cr. Mr. Truog.

122. Soil Physics. I; 4 cr. Mr. Stewart.

124. Plant Nutrition. I; 3 cr. Not given in 1920–21. Mr. Harmer.

125. Origin and Classification of Soils and Agricultural Climatology. II; 3 cr. Alternates with course 127, given 1920. Mr. Whitson.

127. Advanced Soil Chemistry. II; 2 cr. Alternates with course 125, given 1921. Mr. Truog.

128. Field Management. Yr.; 2 to 4 cr. Mr. Richards.

For Graduates

231. Research. Mr. Whitson and staff.

232. Seminary. Yr.; 1 cr. Mr. Whitson and staff.

VETERINARY SCIENCE

PROFESSORS ALEXANDER, HADLEY (CHAIRMAN); ASSOCIATE PROFESSOR BEACH.

The studies detailed below are designed to give students interested in animal production an opportunity to learn how the body is constructed and works. With this as a basis, the more important aspects of live stock sanitation are studied. Especial emphasis is placed on the prevention of animal diseases. The work is made of practical value with the aid of live animals, specimens, models, charts, and other apparatus. These studies introduce the student to terms commonly used in medicine and thus provide a means by which a reading knowledge of veterinary literature may be easily acquired.

For Undergraduates

1. The Animal Body. I; 3 cr. 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.

Thesis. Yr.; 2 or 4 cr. Mr. Hadley, Mr. Beach.

For Undergraduates and Graduates

124. Topical Work. Yr.; cr. to be arranged. Mr. Hadley and staff.

AGRICULTURAL EXPERIMENT STATION

H. L. RUSSELL, DIRECTOR.

The Wisconsin Agricultural Experiment Station is organically associated with the College of Agriculture and members of the faculty

of the College constitute the staff of the Station. The purpose of the Station is the promotion of agricultural science by research and experimentation. The funds for the work of the station come from both state and federal appropriations. Each of the several departments has research work continually in progress, some members of the staff devoting the major portion of their time to this work. Such subjects are selected as are of the greatest importance to the farmers of Wisconsin, as far as the facilities at hand permit.

The publications of the Experiment Station include an annual report, a series of popular bulletins, a series of research bulletins, a series of circulars, and a series of poster bulletins. The popular bulletins, including helpful discussions of the results of experiments, are distributed free to residents of the state upon application and are issued in editions of 20,000 to 50,000 copies. The research bulletins contain technical data and discussions not designed for wide distribution and are sent to libraries, investigators, etc. Any person desiring to receive the popular bulletins should apply to H. L. Russell, Director, Madison, Wis.

AGRICULTURAL EXTENSION SERVICE

H. L. Russell, Director.

The extension work of the College of Agriculture is organized as a service of the several departments of the institution rather than as a distinct department of the College. Under this service three distinct lines of work are carried on:

1. Field demonstration work of the several departments.
2. The county agricultural or home demonstration system in which a resident instructor is located in a county.
3. Collective extension instruction given in connection with the farmers' weeks and women's schools, demonstration trains, etc.

Through this system of giving instruction and practical demonstrations to persons not resident at the College, many thousands of rural people who are unable to come to Madison for resident instruction are aided directly by the work of the College. Much of the work is organized on the project basis, and is partly supported by federal funds. Persons desiring to receive printed matter and other information relative to this work should apply to K. L. Hatch, Assistant Director.

FARMERS' INSTITUTE

E. L LUTHER, SUPERINTENDENT.

The Department of Farmers' Institutes of the College of Agriculture is maintained by a legislative provision which appropriates $20,000 annually for the purpose of conducting Farmers' Institutes at various places throughout the state. The superintendent, in cooperation with the Wisconsin Live Stock Breeders' Association and the Wisconsin Horticultural Society, assisted by special conductors and workers, plans to conduct 170 two-day, 20 Light Soils-Live Stock, 60 Women's and such other special activities as the needs require. At each institute "follow-up" work is arranged with farmers having problems and this "follow-up" work will result in summer field demonstrations and institutes.

A Farmers' Institute Bulletin is issued annually in an edition of 31,500 copies and is distributed free of charge.

LAW SCHOOL

H. S. Richards, Dean, Professor of Law.

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 p. 91.

Applicants for admission who can satisfy the general entrance requirements and who are 21 years of age will be admitted as unclassified students and entitled to all the privileges of the School in the way of instruction. An opportunity is thus afforded to prepare for the bar examinations in this and other states.

The examinations are conducted at the same time and by the same members of the faculty as the examination of candidates for admission to the College of Letters and Science.

In addition to the other entrance requirements, all candidates for admission to the Law School, whether graduates of accredited high schools or not, are required to take the regular entrance examination in English required for admission to the College of Letters and Science, except,

(a) Students of the University who have already passed such examination;

(b) Graduates of other approved colleges and universities. But the Faculty may require any student to take additional work in English if, in their judgment, it is necessary.

Those intending to apply for examination for admission to the first year class or for advanced standing should notify the Registrar of the University before the beginning of the year and apply for directions, as examinations cannot be taken later.

For dates of examinations see Calendar, p. 8.

Pre-legal Courses

The following courses approved by the Association of American Law Schools are suggested for students preparing for the study of law, where only two years are devoted to such work: English (rhetoric and composition), two years; Latin or Greek, two years; German or French, two years; mathematics, or a natural or physical science, one year; history (including English and American constitutional history), two years; psychology. If three or more years be devoted to such preparation, additional courses in history, natural science, and courses in philosophy, political science, economics, and sociology are suggested.

Advanced Standing

Candidates for advanced standing who can comply with the general entrance requirements of the School as above set out will be given equivalent credit for satisfactory work done in other law schools in good standing having a three-year course, upon presenting properly authenticated certificates of such work. The right is reserved to require examinations in all cases where the credits presented are not regarded as equivalent.

Students who have been graduated from the College of Letters and Science, and who while students in that College have elected and earned twenty credits in the Law School, will be admitted to the second year. To meet the above requirement, the student must elect courses offered in the first year of the law course.

All persons from other universities or colleges who intend to apply for advanced standing under the above rules should forward or present their credentials to the Dean of the School at least one week before the opening of the particular session which the student desires to attend.

Graduation

The degree of Bachelor of Laws will be conferred upon all candidates of good character who are at least twenty-one years of age, and have complied with the following conditions:

(1) Credit for at least seventy-four credit hours with a weighted average of fair (a credit is the equivalent of one hour a week for a semester).

(2) Residence of at least three years in a law school of good standing, having a three-year course, one year of which must have been in this School.

(3) Completion of a seminary course in public and private law covering the equivalent of two hours per week for a semester. By permission of the Dean a student may write a thesis with equivalent credit in lieu of the thesis course.

(4) A clerkship of not less than six months in an accredited law office. This requirement may, at the option of the student, be absolved by two periods of not less than three months each. It must be entirely absolved at a time when the student is not in attendance upon the University, and after the student shall have received credit for not less than twenty semester hours in the Law School; 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 fair, 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 ability and presenting a thesis of unusual merit will be recommended for the degree with honor.

Admission to the Bar

The statutes of the state provide that any resident graduate of the Law Department of the University of Wisconsin shall be admitted to practice in all of the courts of this state by the supreme court upon the presentation of his diploma, and may be admitted to the supreme court when not in session by an order signed by one of the justices thereof and filed with the clerk of said court. (R. S. Wis., sec. 2586.)

Under this statute and a rule of the federal court, it is customary for the graduating class, on motion of a member of the Faculty, to be admitted to the supreme court of the state and to the district and circuit courts of the United States immediately upon graduation. This entitles them to admission to the bar of any court of record in Wisconsin and all federal courts.

COURSES OF INSTRUCTION

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

The courses of instruction are arranged to present, as far as possible, the fundamental topics of the law during the first year, and the specialized subjects during the second and third years.

First Year

Agency. II; 3 cr. Mr. Richards.
Briefmaking. I; 1 cr. Mr. Wickhem.
Common Law Pleading. I; 2 cr. Mr. Wickhem.
Contracts. Yr.; 6 cr. Mr. Page.
Criminal Law. Yr.; 4 cr. Mr. Gilmore.
Property I. (Personal). I; 2 cr. Mr. Rundell.
Property I. (Real). II; 2 cr. Mr. Rundell.
Torts. Yr.; 6 cr. Mr. Gilmore.

Second and Third Years

Administrative Law I. I; 2 cr. (Omitted 1920–21.) Mr. Hall.
Administrative Law II. I; 2 cr. Mr. Hall.
Administrative Law III. I; 2 cr. (Omitted 1920–21.) Mr. Hall.
Administrative Law IV. II; 2 cr. Mr. Hall.
Bankruptcy. II; 2 cr. Mr. Wickhem.
Bills of Exchange and Promissory Notes. I; 3 cr. Mr. Wickhem.
Carriers. I; 2 cr. Mr. Hall.
Conflict of Laws. II; 3 cr. Mr. Page.
Constitutional Law. Yr.; 6 cr. Mr. Gilmore.
Conveyancing. II; 3 cr. Mr. Rundell.
Corporations. II; 4 cr. Mr. Richards.
Criminal Procedure. (Omitted 1920–21.) Mr. Smith.
Damages. II; 2 cr. Mr. Wickhem.

Equity I. I; 3 cr. Mr. Smith.
Equity II. II; 3 cr. Mr. Smith.
Evidence. II; 4 cr. Mr. Smith.
Future Interests. II; 4 cr. Mr. Rundell.
Insurance. (Omitted in 1920–21.) Mr. Rundell.
International Law. II; 3 cr. Mr. Potter.
Mortgages. I; 3 cr. Mr. Rundell.
Office Practice. II; 2 cr. Mr. Wickhem.
Partnership. I; 3 cr. Mr. Richards.
Persons. (Omitted 1920–21.) Mr. Wickhem.
Practice Court. II; 1 cr. Mr. Wickhem.
Practice. Yr.; 4 cr. Mr. Sanborn.
Pleading. Yr.; 4 cr. Mr. Boesel.
Professional Ethics. II; no credit. Justice Rosenberry.
Public Service Companies. II; 2 cr. Mr. Hall.
Quasi-Contracts. I; 3 cr. Mr. Smith.
Sales. I; 3 cr. Mr. Smith.
Servitudes. I; 2 cr. Mr. Rundell.
Suretyship. I; 2 cr. Mr. Wickhem.
Thesis Course. Legal History. II; 2 cr. (Omitted 1920–21.) Mr. Page.
Trusts. I; 4 cr. Mr. Richards.
Wills and Administration. I; 3 cr. Mr. Page.

Required and Elective Courses

Candidates for the degree are required to take all the subjects of the first year, twelve hours of work in the second year, and twelve hours in the third year. The work of the second and third years is elective except the course in the History of Law required of all candidates for a degree. Second year students may elect not less than twelve nor more than fourteen hours in courses offered in the second year. Second year students who are graduates of the College of Letters and Science and who have not completed all the courses of the first year will be required to include such omitted courses in their list of electives. Third year students may elect not less than twelve nor more than fifteen hours in courses offered in the third year and in courses not already taken by them when second year students. No student is permitted to count more than twelve hours of work in any one semester toward the total hours required for the degree. Elections in all cases are subject to the approval of the Dean.

Procedure and Practice Courses

Courses in Procedure and Practice extend throughout the last two years and comprise Common Law Pleading, two credits, Code Pleading, four credits, Equity Pleading, one credit, Code Practice, four credits, and Criminal Procedure, one credit. The purpose of the courses is to instruct the student in the principles of pleading and practice at common law and under the codes, by duplicating as far as possible the steps taken by an active practitioner in the preparation for trial of cases at law and in equity throughout the entire field of litigation. The student is required to prepare pleadings in assigned cases, and to carry a cause of action through the various steps from its inception to the final judgment. A practice court is maintained in connection with the work in code practice.

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. 112.

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 30,500 bound volumes, comprising the official reports of the various states and territories

and of the United States; a complete set of English, Irish, and Canadian reports; Australasian Reports, the Reporter System; the various series of selected cases, as American Decisions, American Reports, American State Reports; Lawyers' Reports Annotated; duplicates of the more important reports; complete sets of the leading law periodicals; the leading encyclopedias of law and other works of reference; a large collection of textbooks, statutes, digests, etc.

Fees and Expenses

See pp. 65ff.

Receipts showing the payment of tuition must be filed with the Dean within ten days after entry.

Summer Session

(June 20—August 27, 1921)

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

See p. 91.

Admission to Advanced Standing

A student who has completed elsewhere work equivalent to that required for matriculation and to that of the first year of the medical curriculum may be admitted to the second year of the medical course.

Medical Certificates

Upon the successful completion of the two years of the medical curriculum at Wisconsin, a student will be given a formal certificate. A student who completes less than the two years of the medical course may, however, obtain credentials covering the premedical and medical studies which he has pursued.

Degrees

The Medical School offers merely the first two years of a four-year medical curriculum and confers no degrees. The College of

Letters and Science confers the degree of bachelor of science upon the students registered during the junior and senior years in the Medical School, and the degree of bachelor of science or of bachelor of arts upon students registered during the senior year in the Medical School. The degrees of master of science, master of public health, doctor of philosophy and doctor of public health are conferred by the university faculty upon graduate students who specialize in the medical sciences and fulfill the requirements of these degrees, which are described in the section devoted to the Graduate School.

Bachelor of Arts

The regular requirements for the degree apply to those students who elect the work of the first year of the medical course during the senior year in the College of Letters and Science.

Bachelor of Science
(Medical Science Course)

Students in the College of Letters and Science who are candidates for this degree are required to take the following studies:

a. English: 6 credits (3 hours per week per semester) to be taken in the first year of residence.

b. Foreign language. (1) A knowledge of elementary Latin (equivalent to two years of high school Latin); (2) A reading knowledge of German or French. This reading knowledge shall be determined by the respective departments and will ordinarily be the equivalent of six credits beyond first year French or of four credits beyond second year German. At least two years of work in foreign language shall be taken in college.

c. Courses in physics, chemistry, biology, and the medical sciences as outlined in the requirements of the Medical School. The requirements made of candidates for the degree of bachelor of arts that six unit hours shall be elected in either history or mathematics does not apply to candidates for the degree of bachelor of science (Medical Science Course).

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
Organic Chemistry 120	48	96	4
Physics 1 or 1Sc	160	128	10
Biology	96	256	10
	432	672	34
Study required in the first year of medical course if not presented for matriculation			
Embryology	16	48	2
First Year Medical Course			
Histology	32	112	4
Neurology	32	80	4
Gross Anatomy	32	352	12
Physiology	112	128	9
Physiol. Chemistry	20	140	4
	228	812	33
Second Year Medical Course			
Pathology	80	192	8
Bacteriology and Hygiene	64	112	5
Pharmacology and Toxicology	64	144	6
Clinical Medicine	64	128	6
	272	576	25

Required of candidates for a bachelor's degree: Thesis: 128 laboratory hours (4 units).

Required and elective work may be arranged according to one of the following plans:

1. Six-Year Combined Course (Leading to the B.S. and M.D. Degrees)

*It is recognized that similar courses at other institutions may not correspond with the scientific courses given at Wisconsin. This will not prevent full credit being granted for approximately equivalent courses pursued elsewhere.

If the student has a thorough preparation in the high school, he may take work in the freshman and sophomore years which will enable him to matriculate in the Medical School in his junior year, take the B.S. degree and get a certificate for two years of medical study at the end of the senior year, and complete his medical course by two years' further study in any medical school which does not require more than two years of college work for entrance. During the freshman and sophomore years such a student will have to confine himself closely to the work in science and language required for matriculation in the Medical School. The exact choice of studies will depend somewhat upon the high school training and the ability of the student.

The following schedule is suggested:

Freshman Year

	Credits
English 1a and 1b	3
German or French	4
Chemistry 1	5
Electives	3

Sophomore Year

German or French	4
Physics 1	5
Biology 1	5
Organic Chemistry 120, I	4
Embryology 115, II	2

Junior Year

(First Year in the Medical School)

First Semester	Credits	Second Semester	Credits
Histology 110	4	Neurology 126	4
Human Anatomy 121	8	Human Anatomy 121	4
Physiol. Chem. 104	4	Physiology 105	9

Senior Year

(Second Year in the Medical School)

Pathology 101	6	Pathology	2
Medical Bacteriology 102	5	Toxicology 101–2	2
Pharmacology 104–5	4	Clinical Medicine 101–103	10
Thesis	2	Thesis	2

2. Seven-Year Combined Course (Leading to the B.A. and M.D. Degrees)

In this course the student matriculates as a first-year medical student during his senior year in the College of Letters and Science, receives the B.A. degree upon graduation, and takes the second year of the medical course as a graduate student. He can then finish the clinical portion of the medical course by two years' further study, thus making the combined arts and medical course seven years. This course is in many ways preferable to the six-year combined course since it permits a greater freedom of election and a broader course of study. The language and science work should follow somewhat the lines laid down for the freshman and sophomore years in the six-year combined course, but can be more spread out and taken in conjunction with various electives to suit the needs and inclinations of the student.

3. Complete Arts Course Preceding the Medical Course

Students who can afford the time may take the complete arts course before beginning the technical work of the medical course. A bright, well-trained student not infrequently manages to take the B.A. degree in three years. For such a student, the time needed for the two degrees would be the same as that mentioned above. For other students eight years are required, four for the B.A. course and four for the medical course. A far broader training is thus afforded than in the shorter combined course. Students expecting to finish the clinical part of the medical course at the Johns Hopkins, Cornell or Western Reserve University must choose either the course of study mentioned above or the seven-year combined course.

The work in sciences and foreign language should include all of that mentioned in the first two years of the six-year combined course and may profitably extend beyond this.

Full credit for one year of medical work will not be allowed unless the required preliminary studies and the studies of the first year of the medical course have been completed, and the student has been registered two semesters in the Medical School. Full credit for two years of medical work will be granted only to those who have satisfied the preliminary requirements, who have registered for two college years as medical students, and who have completed all the required studies of the regular curriculum.

4. Courses Leading to M.P.H. and Dr. P.H.

In conjunction with the State Department of Public Health and with the Department of Health of Milwaukee, a course is offered extending over one year and leading to the degree of Master of Public Health. This course will be open to those who have received a degree in medicine or in medical or sanitary science and desire to fit themselves especially for public health work. It is also planned to offer a short course each year for those already engaged in public health work, but who desire more insight into certain aspects of this work. The following course leading to the degree of master of public health is announced for the year 1919–20. Candidates for the degree of doctor of public health are required to do advanced work and to write a thesis in addition to completing the work covered by this course.

First Semester	Credits	Second Semester	Credits
Hygiene 102	5	Hygiene 106	3
Hygiene 110	5	Hygiene 120–121	5
Hygiene 115	2	Hygiene 126	3
Hygiene 125	3	Pathology 104	4
		Zoology 19	3

Various other courses are also open to election.

Courses for Physicians

The regular courses in the various departments are open to physicians. It is hoped gradually to develop such shorter special courses as may be of greatest direct practical benefit to the physicians of the state in aiding them to keep up with the rapid advance in the medical sciences. Suggestions concerning such courses are desired.

Scientific Investigations

It is desired that the facilities of the various laboratories of the Medical School be utilized to the greatest advantage in the investigation of the causes and prevention of disease both in man and animals. The laboratories of the Medical School are freely open to those engaged in such investigations, and, as far as possible, aid will be given in the carrying out of investigations of this character either at the University or elsewhere in the state.

DEPARTMENTS OF INSTRUCTION

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

For a description of the courses in botany, zoology, chemistry, physics, psychology, climatology, and languages, see departmental announcements in the College of Letters and Science.

ANATOMY

PROFESSORS BARDEEN, W. S. MILLER; ASSISTANT PROFESSORS SULLIVAN, BAST; INSTRUCTORS GEIST, BATSON, BEMIS; ASSISTANTS BACH, CRAIGHILL, IVEY, KROHN.

A group of courses intended to offer a comprehensive view of the gross and microscopic anatomy and the embryology of mammals with especial reference to man is given in this department. In addition, opportunities are offered for advanced work and research in anatomy and for a study of some of the lower animal types of special interest in medicine.

For Undergraduates and Graduates

110. Histology and Organology. I; 4 cr. Dr. Miller.

115. Mammalian Embryology. I or II; 2 cr. Dr. Bardeen.

120. Anatomy. For students of physical education. II; 6 cr. Dr. Bardeen.

121. Human Gross Anatomy. Yr.; 6 cr. Dr. Bardeen, Dr. 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. Miller.

130. Advanced Anatomy. Dr. Bardeen.

131. Historical Seminary. II; 1 cr. Dr. Miller.

For Graduates

235. Investigation under Direction.

240. Independent Investigation. Facilities for conducting research in anatomy are offered.

CLINICAL MEDICINE

Professors Evans, Van Valzah; Associate Professor Lorenz; Assistant Professors Middleton, Morris, Robbins; Reid; Lecturers Dean, Drake, Jackson, Greeley, Tormey; Instructors Blankinship, Curl, Donovan, Fahr, Gonce, Tenney; Assistants Dr. Zellmer, Miss Gray, Miss Giryotas, Miss Wilson.

101. Clinical Diagnosis. II; 5 cr.

102. Clinical Laboratory Diagnosis. II; 3 cr.

103. Minor Surgery and Bandaging. II; 2 cr.

104. X-Ray Technique.

105. Medical Specialties. II; 1 cr.

HYGIENE

Professors Evans, Eyster, Clark; Associate Professor Stovall; Assistant Professor Dawson.

In conjunction with the staff of the State Laboratory of Hygiene, the State Board of Health, and the Board of Health of Milwaukee, courses in hygiene are offered by members of the Faculty of the Medical School under the general supervision of Dr. Clark.

For Undergraduates and Graduates

102. Bacteriology for Health Officers. I; 5 cr. Dr. Clark, Dr. Stovall.

104. Immunity. II; 4 cr. May be taken as thesis course with additional assignments. Dr. Clark.

106. Physiology for Health Officers. II; 3 cr. Given in conjunction with courses 106 and 107 in medical physiology, but with special reference to the needs of the health officers. Dr. Eyster, Dr. Dawson.

107. Sanitary Bacteriology. II; 3 cr. Designed for students interested in the bacteriological problems involved in the public control of water, sewage, and food. Dr. 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.

121. Practical Field Work.

PATHOLOGY AND MEDICAL BACTERIOLOGY

Professors Bunting, Clark; Instructors Zellmer, Raube, Huston, Young; Assistants Lingenfelter, Vingom, Leary, Vickers, Murphy.

For Undergraduates and Graduates

Courses 101, and 103 are open to students who have successfully completed courses in histology and embryology. Courses 101 and 102 are required of medical students.

101. General and Special Pathology. I; 7 or 8 cr. Continues for 5 weeks into second semester. Dr. Bunting.

102. Medical Bacteriology. I; 5 cr. Dr. Clark.

103. Experimental Pathology. II; 4 cr. Dr. Bunting, Mr. Leake.

104. Immunity. II; 4 cr. Prerequisite: course 102. Dr. Clark.

107. Sanitary Bacteriology. II; 3 cr. Dr. Clark.

For Graduates

204. Advanced Pathology. Dr. Bunting.

205. Journal Club. Yr.; 1 cr.

206. Advanced Bacteriology. Dr. Clark.

PHARMACOLOGY AND TOXICOLOGY

Professor Loevenhart; Assistants Seybold, Gorder, Umbreit, Elliott, Kesten.

Elementary and advanced courses in pharmacology and toxicology are offered in this department. For the elementary courses a previous training in physiological chemistry and physiology is required. The advanced courses are open to those who have had adequate elementary training.

For Undergraduates and Graduates

101. Toxicology. II; 1 cr. Dr. Loevenhart.

102. Toxicology. II; 1 cr. Dr. Loevenhart.

104. Pharmacology. I; 2 cr. Dr. Loevenhart, Mr. Gorder, Mr. Seybold.

105. Pharmacology. I; 2 cr. Dr. Loevenhart, Mr. Gorder, Mr. Seybold.

108. Advanced Work. Dr. Loevenhart.

112. Independent Investigation.

116. Journal Club. Yr.

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

Professors Eyster, Bradley, Meek; Assistant Professor Dawson; Assistants Leake, Ronzone, Godshall, Kupperman, Bump, Peterson, Thorngate, Ellis, Campbell, Schulz.

The following courses are designed especially for students studying medicine. Course 104 is open only to those who have had a previous training in general and organic chemistry (courses 1 and 120), physics (course 1 or 1Sc) and general biology (course 1). As a preparation for course 105, comparative anatomy, histology, and neurology (Anatomy 105, 110, and 126), and course 104 are recommended.

For Undergraduates

1. Elements of Physiology. I; 3 cr. Especially adapted to teachers of elementary physiology and hygiene. Required of sophomores in home economics (2 cr.) and open to other students. Students should have had some chemistry. Dr. Meek, Dr. Dawson.

2. Elements of Physiology. I; 1 cr. Laboratory. Required of sophomores in home economics; open to others as an elective. Dr. Meek, Dr. Dawson.

3. Animal Physiology. II; 4 cr. Especially designed for students in agriculture, but open to other students. Dr. Meek.

For Undergraduates and Graduates

104. Physiological Chemistry. I; 4 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: general and organic chemistry, physics, and biology. Dr. Bradley.

114. Physiological Chemistry. I; 3 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: general and organic chemistry, physics, and biology. Dr. Bradley.

105. Physiology. II; 9 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: comparative or human anatomy, histology, neurology, and physiological chemistry. Dr. Eyster, Dr. Meek, Dr. Dawson.

115. Physiology. II; 7 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: comparative anatomy and physiological chemistry. Dr. Eyster, Dr. Meek, Dr. Dawson.

116. Physiology of Exercise. I; 3 cr. Required of seniors in physical education and open to others as an elective. Prerequisite: Physiology 105 or 115. Dr. Eyster, Dr. Meek, Dr. Dawson.

117. Advanced Physiological Chemistry and Research. Yr.; credit according to work done. Dr. Bradley.

118. Advanced Physiology and Research. Yr.; credit according to work done. Dr. Eyster, Dr. Meek.

120. Journal Club. Yr.; 1 cr. Reports on recent physiological and biochemical literature. Dr. Eyster.

For Graduates

208. Advanced Laboratory Course in Physiology. Designed for teachers of animal physiology as well as for physicians and students of medicine who desire a wider experience in experimental physiology than can be gained in course 105. Dr. Eyster.

210. Advanced Laboratory Course in Physiological Chemistry. Corresponds to course 208.

GRADUATE SCHOOL

CHARLES S. SLICHTER, DEAN.

General Statement

The University of Wisconsin is a part of the system of public instruction provided by the state, but is open to all properly qualified students without regard to state lines. It is the aim of the University to offer opportunities for advanced instruction and research to as wide a constituency as possible. No limitations are placed upon a student's freedom in research and in the expression of his conclusions upon subjects which he is prepared to treat, but the University avoids all that is partisan in politics and sectarian in religion, without debarring its members from investigation and activity in any field.

Organization

The work of the Graduate School is under the gerneral direction of the Graduate Faculty. The Dean of the Graduate School is charged with general supervision of all graduate students and is the medium of communication between such students and the university administration.

Aims and Methods

The Graduate School aims to awaken in the minds of capable men and women an appreciation of high scholarship, research, and the advancement of learning, to the end that they may effectively aid, not only in the promulgation of academic instruction, but also in extending the boundaries of knowledge.

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 specially meritorious work of this kind, and doctors' theses of more than common merit are occasionally thus published.

Admission to the Graduate School

The 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. 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. Each applicant for admission to the Graduate School will register in the office of the University Registrar, who will provide a statement of fees to be paid at the Bursar's office. The applicant should then promptly enroll in the office of the Dean, at room 157, Bascom Hall, and (if not a graduate of the University of Wisconsin) file in that office the transcript of his undergraduate record. The Dean will issue to the student an election card for presentation to the several instructors under whom he desires to study. Students already enrolled in the Graduate School should obtain from the Dean an election card at or before the beginning of each semester. Undergraduates of the University of Wisconsin who have completed all requirements for the baccalaureate degree with the exception of four or five credits may be admitted to the Graduate School before the degree is actually conferred.

Graduates of other institutions in which the requirements for the first degree are not equivalent to those at the University of Wisconsin, may be admitted to the Graduate School (but not to candidacy for an advanced degree), if their training is regarded as less than one year short of that required for the baccalaureate degree at the University of Wisconsin.

Graduate students are invited to confer freely with the Dean of the Graduate School in all matters concerning their relations to the University.

Clubs and Societies

To promote interest in problems of scholarship and investigation, and for training in the presentation of results, numerous voluntary clubs and societies have been established by instructors and students in the Graduate School. Among these are:

The Sigma Xi

The Classical Club
The Language and Literature Club
The Historical Conference
The Romance Language Club
The German Journal Club
The Chemical Club
The Biological Club
The Mathematical Club
The Wisconsin Section of the American Chemical Society
The University of Wisconsin Branch of the American Institute of Electrical Engineers
The University of Wisconsin Section of the American Electrochemical Society
The Graduate Club, while sharing in these purposes, is primarily a social organization of graduate students for the promotion of acquaintance and good fellowship among themselves and members of the faculty.

University Research Fund

The State Legislature has provided the sum of $23,000 for the promotion of research in the University. The president of the University has appointed a University Research Committee to receive information concerning projects of research for which special aid is needed and for which adequate funds are not available from any other source.

Fellowships and Scholarships*

University Fellowships

For the purpose of promoting higher scholarship and research the Regents of the University have established twenty-four University Fellowships of the annual value of $500 each. These are allotted to the several departments of instruction as follows:

To Economics, two; to History, two; to Geology, and the biological sciences (zoology), two; to Engineering, two; to Agriculture, two; to the following departments and groups of departments, one each, viz., Botany, Political Science, Sociology, Latin, Greek, German, Romance Languages, Chemistry, Physics, Mathematics and Astronomy, Psychology, Education, Home Economics, Semitics.

*With the exception of honorary fellows, all fellows and university scholars are required to pay the incidental fee.

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 upon application only, which should be made upon a special blank form furnished by the Registrar of the University; such application, with accompanying evidence of merit, attainment, and ability, to be in the hands of the Registrar before March 1st of the collegiate year preceding that during which the fellowship is to be held.

3. All fellowships will be filled each year. Fellows may be reappointed for one additional year only.

4. Application must be accompanied by evidence of scholarship, ability, and general worthiness; such as theses (whether prepared for this or other purposes), published writings, testimonials from instructors, outline of educational course pursued, special distinctions gained and the like. Applications for reappointment should contain a full account of the work of the preceding year. Applications to receive attention must contain a definite statement of the special studies which the applicant intends to pursue.

5. Each fellow should pursue his studies under the direction of an assigned professor or professors. Assignment of university services to the fellow shall be made by the President in consultation with the head of the department to which the fellow has been assigned, and the work assigned may be equivalent to one hour of teaching daily.

6. Vacancies in fellowships, due to resignation or other cause, may be filled as they occur, at the option of the Faculty.

Honorary Fellowships

The Regents have established honorary fellowships, equal in number to the University Fellowships, and filled in a similar way. These are restricted, however, to persons who have already held academic honors, such as fellowships or teaching or research appointments. No compensation is attached to these positions except the remission of university fees, and no teaching service is required; but to be eligible to an honorary fellowship one must be a graduate of at least one year's standing.

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 the joint supervision of the Director of the School of Education and the adviser selected in the department in which the fellowship is assigned.

Further information concerning these fellowships may be obtained from the Director of the School of Education.

Albert Markham Memorial Graduate Traveling Fellowship

In accordance with the terms of a bequest from the estate of the late Albert Markham, founder and principal of Markham Academy, Milwaukee, the Albert Markham Memorial Graduate Traveling Fellowship is offered annually in the departments of language and literature of the University of Wisconsin to holders of a Ph.D. degree, and is administered by a committee representing those departments. The annual income is approximately $800 but temporarily this may be increased to $1,000.

The major work of the appointee must lie in one of the departments of language and literature. He is expected to devote the year to foreign travel and study in foreign universities, but by special permission he may study at some other American university.

Mary M. Adams Graduate Fellowship in English

By will the late Charles Kendall Adams, formerly president of the University of Wisconsin, conveyed the larger part of his estate to the Regents of the University for the gradual establishment of fellowships in Modern History, Greek, and in the English Language and Literature. The first of these fellowships, the Mary M. Adams Graduate Fellowship in the English Language and Literature became available in the academic year 1906–07, since which time the annual amount paid to the incumbent has ranged from $500 to $550.

Charles Kendall Adams Graduate Fellowship in Greek

The second of the graduate fellowships established by the will of the late President Adams became available in the academic year 1913–14. It is called the Charles Kendall Adams Graduate Fellowship in Greek, and its value to the incumbent is approximately $550.

Charles Kendall Adams Fellowship in Modern History

The first appointment to a fellowship bearing the above title was made for the academic year 1918–19. Its value to the incumbent is approximately $550.

Working Fellowships

In certain departments of the state government provision is made for part time service to be rendered by graduate students whose university studies are in related branches of economics or political science. These positions are filled through the state Civil Service Commission to which application may be made for further information.

Graduate Scholarships

The Regents of the University maintain twenty-six graduate scholarships of the value of $250 each. Two of these are designated for Economics, one for Political Science, one for European History, one for American History, four for Agriculture, and three for Engineering. Appointments to these scholarships are in general made in the same manner as appointments to fellowships. By special provision authority is conferred upon the faculties of Beloit, Carroll, Lawrence, Milton, Milwaukee-Downer, Ripon and St. Clara

Colleges to nominate annually to the Faculty of the University of Wisconsin one member of their respective senior classes as a suitable candidate for a university scholarship. Such candidates, when duly appointed by the Regents of the University, shall be in all respects upon the same footing as other university scholars.

Hollister Fellowship in Pharmacy

Mr. and Mrs. Albert H. Hollister, late of Madison, by separate wills, conveyed to the Regents of the University legacies, now amounting to $10,328, for the establishment and maintenance of a fellowship in pharmacy. The annual income of this sum is allotted to a graduate student appointed upon recommendation of the Department of Pharmacy.

The Milwaukee Graduate Fellowships and Scholarships in German

Through the generosity of a number of citizens of Milwaukee interested in the promotion of advanced studies in German in the University, there have been established a number of graduate fellowships and scholarships in German. These fellowships and scholarships are available for a period of five years beginning with the academic year 1917–18.

For the year 1920–21 these fellowships and scholarships were available as follows:

The Albert F. Gallun Graduate Fellowship in German $400.
The Gustav Pabst Graduate Fellowship in German $400.
The Charles F. Pfister Graduate Fellowship in German $400.
The Charlotte Trostel Graduate Fellowship in German $500.
The Albert Trostel Graduate Fellowship in German $500.
The Alfred Uihlein Graduate Fellowship in German $500.
The Fred Vogel, Jr., Graduate Fellowship in German $500.
The Albert C. Elser Graduate Scholarship in German $250.
The Henry Schoelkopf Graduate Scholarship in German, established by Mrs. Emilie Nunnemacher and Mrs. Wm. H. Schuchardt, $250.

Henry Gund Scholarship

Through the generosity of Mr. Henry Gund, of La Crosse there has been established the Henry Gund Scholarship in German Literature of the annual value of approximately $250.

Other Scholarships and Fellowships Available in 1921-22

During the current year there are available the following scholarships and fellowships:

The Cutler-Hammer Manufacturing Company of Milwaukee offers $500 for a research fellowship in physics.

The Fritzsche Brothers Fellowship in Pharmacy of the value of $500 is offered by the Fritzsche Brothers of New York. The holder of this fellowship is to do research work 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 Newport Turpentine and Rosin Company provides a fellowship in Pharmacy of $500 for phytochemical and other work related to the Conifers.

A research award of $250 for a continuation of work on guaiacol and its derivatives, for the year 1920–21, has been made by the Research Committee of the American Pharmaceutical Association.

The du Pont Fellowship in Chemistry of $750 is offered by E. I. du Pont de Nemours and Company of Wilmington, Del.

The National Fertilizer Association of Chicago and Baltimore provides a fund of $2,000 a year for three years for an industrial fellowship in soils.

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 Paint Manufacturers' Association of the U. S. (Educational Bureau) offers a fellowship in genetics and agricultural chemistry of the value of $300.

The Wisconsin Gas Association provides a fund of $500 for a fellowship in gas engineering, department of chemical engineering.

The 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

The University of Wisconsin confers the following second degrees: master of arts, master of science, master of philosophy, civil engineer, mechanical engineer, electrical engineer, chemical engineer, engineer of mines. See below for other second degrees.

These degrees are conferred in accordance with the conditions set forth below, upon graduates of the University of Wisconsin and upon graduates of other institutions of learning whose training has been substantially equivalent to that represented by the baccalaureate degree of the University of Wisconsin. The University will determine this substantial equivalence of training by such methods as seem best adapted to each case, and may impose upon any candidate such additional requirements as seem needful and just.

The degree, master of arts, is conferred upon candidates whose undergraduate work corresponds to that now leading to the degree, bachelor of arts, as conferred by the University of Wisconsin. The degree presupposes training in foreign language substantially equivalent to that required in the University of Wisconsin for the bachelor of arts degree. The University reserves the right to test by its own methods the adequacy of such training.

The degree 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 degree are engaged in teaching, or other remunerative employment, will be required to devote to their studies such period longer than one year as may be designated by the Graduate Committee.

3. For students seeking to specialize in a definite line of study the preparation of a thesis may be required, and subject to the approval of the professor in charge, such thesis work may be elected by others. A typewritten copy of the completed thesis bearing the approval of the professor under whom it is taken must be filed with the Librarian of the University.

4. The candidate must sustain an oral examination upon the 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.

Second Degrees in Engineering

The degrees, civil engineer, mechanical engineer, electrical engineer, chemical engineer, and engineer of mines will be conferred.

(a) Upon graduates of approved institutions who have completed suitable undergraduate courses and who successfully pursue not less than one year of advanced engineering study at the Uni-

versity of Wisconsin, in accordance with the rules above set forth for the attainment of second degrees.

(b) Upon graduates of the College of Engineering of the University of Wisconsin who have spent three years in professional work, at least one of which must have been in a position of responsibility, and who present a satisfactory thesis.

Second Degree in Medicine

The degree of master of public health will be conferred upon graduates of approved medical colleges who satisfactorily complete one year of graduate work in sciences related to public health. For a detailed statement regarding this degree application may be made to the Registrar.

Second Degrees for Students in Professional Colleges

Graduates of approved institutions who are regularly enrolled in the professional colleges of this University may supplement their professional studies by work taken in the Graduate School. Upon the completion of an approved course of study they will be admitted to examination for the master's degree, to be conferred at the time of their graduation from the professional college. The course of study thus prescribed for the attainment of the master's degree may be expected, normally, to require one-third of the student's time for a period of two years.

Candidacy for the Master's Degree Partly in Absentia

By consent of the departments concerned, any person eligible to candidacy for a second degree, who has done satisfactory graduate work during one summer session of the University, may be admitted to candidacy for a master's degree upon the following terms:

1. The candidate must conform to all of the above regulations for candidates for the master's degree with exception of the requirement of residence at the University.

2. During a period of two consecutive years, while not in residence at the University, the candidate must pursue a course of advanced study previously arranged and approved by some department of the University and attested by a signed statement filed with the Dean of the Graduate School. See Rule 3 below. This work is designated his major study, and during two or more summer sessions, in addition to the one above named, he must pursue, at the University, work in continuation of, or collateral to,

this major; for example, laboratory or seminary work in the department in which the major is taken. The *absentia* work is expected to equal in amount that normally accomplished in three summer sessions. But, experience having shown that in many cases this amount of work cannot be done within two years by teachers and other persons charged with onerous duties, the University reserves the right to impose in such cases four or more summer sessions as the minimum period of residence, with corresponding diminution of the work *in absentia*.

3. As some departments of the University do not concede the privilege of candidacy *in absentia*, the applicant for this privilege must arrange in advance with the department concerned for its approval of the proposed work and must show that he has access to adequate facilities for its prosecution. A form showing that such arrangement has been made must be completed and filed with the Dean of the Graduate School at or before the close of the first summer session of candidacy. By consent of the department and of the Dean of the Graduate School, graduates of the University of Wisconsin may enter upon the *absentia* work above prescribed, without prior residence in the Graduate School. For all other candidates residence at the University of Wisconsin for one summer session, or its equivalent, will be required as a prerequisite to approval of candidacy by this method. Continuous supervision by the University cannot, in general, be given to work done *in absentia*, and its amount and character will therefore be tested at the opening of each summer session by examination upon the ground covered *in absentia* during the preceding year.

4. 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.

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 tc those specified for the degree of doctor of philosophy with the following exceptions:

1. The language requirements are those maintained for the B.S. degree (Medical Science Course).

2. The time requirements are as outlined above.

3. The preliminary examination of the candidate is to be conducted by and his thesis approved by the Executive Committee of the Medical School.

Doctor of Philosophy

The degree, Doctor of Philosophy, is not conferred solely as the result of faithful study extending over any prescribed period; special attainments are required in all candidacy for this degree, particularly the power of independent investigation as shown by the production of a thesis embodying original research or creative scholarship, presented with a fair degree of literary skill. Candidacy for the degree is based upon resident graduate study normally extending over a period of not less than three academic years, at least one of which must be spent at this University.

The attention of graduate students is called to the following regulations respecting candidacy for the doctor's degree and they will be presumed cognizant of them:

1. **Major Study.** Candidates for this degree are required to select a major study which may be coextensive with the work of a department or with one of the "subjects" under which certain departmental announcements of courses are classified, or which may be constructed from two closely related subjects. Only in exceptional cases and with the prior approval of the Dean of the Graduate School will a major be allowed to extend beyond a single department. The courses composing the major may be divided among several instructors, one of whom, designated as In Charge of the Major Study, will act as the student's adviser in the selection and arrangement of courses constituting the major and also the minor studies defined below. The major professor will have immediate supervision of the thesis unless the Graduate Committee, upon recommendation of the department, shall otherwise direct.

2. **Minor Studies.** Supplementary to his major work, the candidate is usually required to pursue one and may pursue two minor studies, which shall aggregate from one-fourth to one-third of the time spent upon his graduate studies and which shall lie outside his major subject. Such minors and the amount of work to be devoted to them shall be stated to the Graduate Committee for its

approval at the time of admission to candidacy for the degree. See Sec 3.

3. **Admission to Candidacy, or Preliminary Examination.** Preferably nine months and at least seven months prior to the oral examination provided in Sec. 4, the candidate shall file with the Dean of the Graduate School his formal application to be admitted to candidacy for the doctor's degree. A suitable blank will be furnished for this purpose by the Graduate Office. This application shall include the following statements:

(a) The title of his proposed thesis (subject to future verbal amendment) and the major professor's approval of such title.

(b) Certificates from the Departments of French and German of the University of Wisconsin that the candidate possesses a reading knowledge of these languages adequate for use in research in his major subject.

(c) Departmental recommendation of candidacy based upon (1) formal written examination, (2) oral examination before a duly appointed committee, (3) such other substantial tests as the departments may elect. The nature of such test shall be stated in the recommendation.

(d) The scope of the proposed minors, as provided in Sec. 2, and the approval of a professor who assumes charge of each such minor.

This application shall be submitted to the Graduate Committee, which may reject it for cause, or may approve it and admit to candidacy. With reference to time requirements imposed by the University, the Graduate Committee may specify the earliest permissible date for the final oral examination provided in Sec. 4.

4. **Oral Examination.** Every candidate for the doctor's degree is subject to oral examination upon the general field of his major and minor studies, but such examination upon a second minor subject may be waived upon recommendation of the instructor in charge, accompanied by a certificate that the candidate has passed a special written examination adequately covering the field of such subject. The Dean of the Graduate School will appoint for each candidate an examining committee, usually composed of five persons, with the major professor as chairman, and will designate a time and place for the examination. The candidate's completed thesis shall be presented to this committee, or, in lieu thereof, the major professor shall state to the committee its purpose and scope and shall certify to the committee that the work upon the thesis is substantially completed. This examination shall be open to all members of the Graduate Faculty.

5. **Thesis.** At any time after admission to candidacy, the candidate may submit to the Dean of the Graduate School, for approval of its mechanical form and execution, a typewritten copy of his completed thesis, provided with a title page in form prescribed by the University and furnished by it, in blank, upon request. At any time thereafter, upon request of the major professor, the Dean shall constitute a committee of three persons, including the major professor, who shall report upon the substantial merit of the thesis. Their report, if favorable, shall be endorsed upon the thesis for publication. When so endorsed, the thesis shall be filed in the University Library and shall be withdrawn therefrom only upon written authorization of the Dean of the Graduate School. In case of divided opinion among the examiners, the case shall be decided by the Graduate Committee with right of appeal to the Faculty.

6. **Abstract.** At any time after approval of the thesis, the candidate may file with the Dean of the Graduate School either an abstract of the thesis, or a selected part thereof, certified by the major professor to be adequate for publication in lieu of the complete thesis.

7. **Security for Publication.** After filing such abstract or selected part, the candidate shall place with the University Bursar the sum of fifty dollars as a guaranty of prompt publication of his thesis. The sum so placed shall be held in trust by the Bursar for a period of not less than one year and shall be refunded to the candidate if during such period he shall deliver to the University Librarian the printed copies of his thesis prescribed in Sec. 8. 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.

8. 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 thesis published in (1) such scholarly periodicals or society or university publications as shall be approved by the Dean of the Graduate School, or (2) in bound volumes issued and sold by well-known publishing houses approved by the Dean, the candidate may deposit in the University Library six copies of the thesis so published in lieu of the one hundred copies above prescribed. By approval of the major professor and the Dean of the Graduate School, publica-

tion and filing of an approved part of the thesis may be accepted in satisfaction of this requirement.

9. Recommendation to the Graduate Faculty that the doctor's degree be conferred upon the candidate will be made (a) upon absolving the requirements above set forth under Secs. 3, 4, 5, and 8, or (b) upon absolving the requirements of Secs. 3, 4, 5, 6, and making the deposit named under Sec. 7.

10. 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.

Fees and Expenses

See pp. 65ff.

Graduate Circular

The special announcement of the Graduate School, giving detailed information concerning the School, may be obtained upon application to the Registrar of the University.

UNIVERSITY EXTENSION DIVISION

(Extra-mural College)

LOUIS E. REBER, DEAN.

Of the three main functions of a commonwealth university—(1) resident instruction, (2) research, and (3) the dissemination of the useful and assimilable knowledge which has been accumulated through productive scholarship, to all classes of citizens and in forms adapted to their requirements—the third is fulfilled in an organized way by the Extension Division.

This Division constitutes the Extra-mural College of the University, and is, therefore, one of the seven coordinate colleges of the University with a dean and a faculty of its own.

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 traveling instructors, who give personal assistance and instruction to students who have need of such help, or conduct class groups for those pursuing correspondence-study work where that may be desirable.

Field organizers make known the instruction and other opportunities which are made available through the Extension Division and organize the details of the work in the field.

District Organizations

First District Office.....Milwaukee
Second District Office.....Oshkosh
Third District Office.....La Crosse
Fourth District Office.....Superior
Fifth District Office.....Wausau
Sixth District Office.....Eau Claire

CORRESPONDENCE-STUDY DEPARTMENT

WILLIAM H. LIGHTY, SECRETARY AND PROFESSOR.

Purpose

For the needs of those who are unable to adjust themselves to the formal system of education, special forms of consecutive home study courses have been developed by the Correspondence-Study Department. This department offers individual instruction adapted to the special needs of students who cannot come into residence study at the University. The instruction given may be undertaken in the leisure hours of each student at his own home.

Plan and Scope

The University of Wisconsin provides, through the Correspondence-Study Department, 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 towards greater proficiency and skill.

The first class may be roughly divided into (1) those who wish to keep abreast of the advances in knowledge in their profession or business, or who wish to study purely for purposes of general culture; (2) those who wish to acquire units of credit towards a university degree; and (3) those who require preparation for entrance to the University.

The second class includes (1) those whom the necessity of earning a livelihood has taken from school before acquiring an elementary education; (2) those who have had the benefit of more or less liberal educational opportunities, but have received no training especially adapted to fit them for their chosen vocations; and (3) those who desire to change vocations and prepare themselves for employment more nearly adapted to their tastes and abilities.

This system of instruction is designed for persons carrying on their own education. It is open to 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 necessary textbooks, outfit, etc. may also be purchased through the Extension Division if the student so desires. Students are encouraged to

register for but one course at a time. No more than two courses may be registered for at one time unless the student can give evidence that he has several hours a day to devote to study.

THE INSTRUCTION. Upon receipt of the application and fee, the first two lessons will be sent with instructions for study, methods of preparation, and directions for returning lesson sheets and reports. Each lesson will be returned to the student with such corrections, explanations, and suggestions as may be needed. Lists of books, assignments for reading, and all necessary assistance will be furnished throughout the course, so that no student will be left without adequate aid and guidance. Questions on the subject in hand are at all times encouraged.

BY WHOM PREPARED. These courses are prepared by the members of the University Faculty, and each represents a definite amount of work equivalent to similar work done in residence at the University, or in standardized schools.

THE UNIT COURSE. The unit course is divided, where practicable, into forty weekly assignments. Such a course represents at least an amount of work equal to that done in residence at the University in a full five recitation-hour study a week for one semester, or half year. It is assumed that this work may be done by the average student in forty weeks on a minimum leisure for study of one hour a day, six days in the week. It is, however, the student's privilege to pursue his studies as rapidly as he is able.

THE LESSON. The unit course is divided into assignments. In some courses this may call for but a single report but in others the assignment is divided into two or more lessons. In all cases the assignment represents an average week's work, and not an evening's work as at school.

PERMANENCE. The department endeavors to make its work thorough and permanent and the various courses have been arranged in coordination with the regular residence work, the short courses, and the summer session.

EXAMINATIONS. Examinations are optional with the student, but are required where credits or certificates are sought. These examinations must be taken at the University, or under conditions approved by the University.

REGULATIONS. 1. Students may begin correspondence courses at any time during the year.

2. For admission to the Correspondence-Study Department no preliminary examination is required. The student is required to fill out an application blank, giving such information as may be helpful in adapting the instruction to the personal needs of each student.

3. Students who undertake correspondence-study work for university credit must state this fact in advance and comply with all the requirements of the University.

4. For the benefit of the department it is desired that the applicant state fully the purpose he has in view in taking the work, and also in detail such educational advantages, training, or experience as he may have had. The department endeavors to meet the needs of the individual student by advice and suggestion, as well as by formal instruction, but whenever it finds that the course elected is not for the best interests of the student, it reserves the right to reject the application, or to advise a change to another course.

5. Correspondence students enrolled in a course (or courses) comprising twenty assignments or less, not involving credit towards a university degree, are allowed twelve months from the date of registration to complete the work. For longer courses a proportionately longer time is allowed. Correspondence students who are candidates for credit towards a degree are expected to complete one course of forty assignments or less within twelve months, two courses within fifteen months, three courses within eighteen months, from the date of registration.

6. No fee is refunded because of a student's inability to enter upon or pursue a course for which he has once registered. If an application for instruction is rejected, the fee is returned.

7. The fee for a full unit course of forty assignments is only twenty dollars. When the student registers for more than one unit course he receives a discount of twenty-five per cent upon the amount of the fees in excess of twenty dollars. These fees are deliberately put upon the lowest operating basis.

Laboratory Work

Provision is made in connection with many correspondence courses, both in the advanced grade and in the vocational studies, by which laboratory practice forms a part of the instruction. In some courses laboratory outfits are sent to the student from the University to be set up in his own home. In other cases special arrangements are made for short periods of laboratory practice at Madison. In some studies local branch laboratories are established where local students may receive special instruction as the correspondence course proceeds.

University Credit

1. Persons who have had the required preparation for admission to the University will, upon satisfactory completion of a correspond-

ence-study course designed for credit, be awarded a certificate of credit in the University.

2. The maximum credit granted for work done by correspondence-study, however, may not exceed one-half the unit hours required for graduation.

3. At the completion of each correspondence-study course for university credit, the student shall pass an examination held under the direction of the instructor giving such course, or by some one designated by the University for that purpose.

4. Work taken for credit may not be done by any student while in attendance at any institution of learning.

5. In special cases credit may be allowed for correspondence-study courses of preparatory grade to satisfy partial entrance requirements to the University.

6. Credit to an amount not exceeding one-fourth of the unit hours required for graduation may be given at the University of Wisconsin to students of such other correspondence schools or departments as may be designated by the University of Wisconsin. It is, however, required that such credits shall be subject to the same provisions as are made in the University of Wisconsin, and subject to the action of the accredited schools committee, or the advanced standing committee, as the case may require.

7. Credit records of correspondence-study work are filed in the University Extension office until the student has satisfactorily completed one year of study in residence. When all the requirements are satisfied, the correspondence-study records may be transferred to the Registrar's office and applied toward graduation.

8. All courses offered by the Correspondence-Study Department, whether taken for university credit or not, are on a uniform basis in reference to the amount of work covered. Courses which are satisfactorily completed have, therefore, a definite value, and all students who successfully complete such courses will be awarded certificates of the grade in which the work is taken.

Correspondence-Study Courses

Courses marked with an asterisk (*) involve university credit. Full information on any of the correspondence-study courses is supplied on request.

Astronomy—Popular Astronomy (C. 1).

Botany—Description and Classification of Flowering Plants* (C. 1); General Botany* (C. 11); Morphology of Seed Plants* (C. 12); General Morphology of Algae* (C. 2); General Morphology of

Fungi* (C. 3); Plant Histology* (C. 5); Morphology of Mosses and Ferns* (C. 4); Drug and Food Products* (C. 7); Trees and Shrubs* (C. 8); Elementary Botany (C. 21).

Business—Complete Course, Business Organization and Management (C. 142–155); General Organization of Business (C. 142–144); Types of Business Organizations (C. 145–150); Industrial Management (C. 151–152); Marketing Methods (C. 153–155); Bookkeeping (C. 128); Accounting Principles (C. 129); Cost Accounting for Industrials (C. 136); Bookkeeping and Cost Finding for Printers (C. 130A); Municipal Accounting (C. 134); Advanced Accounting Problems (C. 135); Federal Income Tax (C. 132); State Income Tax (C. 132B); Auditing (C. 137); Contracts (C. 115); Sales (C. 118); Commercial Paper (C. 122); Private Corporations (C. 124); Insurance (C. 198); Show-Card Writing (C. 5); Retail Selling and Store Management (C. 159); Retail Selling (C. 159A); Retail Advertising (C. 191A); Elementary Banking (C. 186C); Commercial Correspondence (C. 102); The General Secretary (C. 103); Real Estate (C. 174).

Chemistry—Elementary Chemistry* (C. 1); Qualitative Analysis* (C. 2).

Drawing, Mechanical—Shop Sketching (C. 203); Shop Drawing (C. 204A); Shop Drawing (C. 204B); Mechanical Drawing (C. 204S); Principles of Architectural Drawing (C. 243A); 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—Elements of Economics* (C. 1); Labor Problems* (C. 2); Transportation* (C. 3); Socialism* (C. 4); Economics of Saving and Investment (C. 5); Commercial and Industrial Geography* (C. 7); Elements of Money and Banking* (C. 10); Brief Course in Money and Banking (C. 10A); Elementary Banking (C. 186C); Social Psychology* (C. 15); General Sociology* (C. 16); Practical Sociology* (C. 17); Criminology and Penology* (C. 18); Immigration and Americanization (C. 30).

Education—Mental Development* (C. 1D); Educational Psychology* (C. 3); Child Nature and Training (C. 5); History of Modern Education* (C. 6;) Principles of Elementary Teaching (C. 7); Principles of Education* (C. 31); Social Development and Education* (C. 51); Advanced Educational Psychology* (C.61); Education in the United States* (C. 71 D); High School Organization and Curriculum* (C. 85); Supervision of Instruction* (C. 81).

Engineering, Civil and Structural—Elements of Mechanics (C. 406); Strength of Materials (C. 407); Elements of Structures. A (C. 408); Elements of Structures. B (C. 409); Roof Trusses (C. 410); Plate Girders (C. 411); Stresses in Bridge Trusses (C. 412); Design of Railway Bridge Trusses (C. 413); Reinforced Concrete Construction (C. 418A); Reinforced Concrete Construction (C. 418B); Reinforced Concrete Construction (C. 418C); Steel Building Construction (C. 421); Practical Course in Concrete (C. 430); Structural Steel Drafting and Elementary Design (C. 431); Introductory to Structural Steel Drafting (C. 431A and B); Elementary Steel

Design (C. 431 C); Steel Designing and Detailing (C. 431 D); Surveying; Hydraulics (C. 281); Railway Engineering* (C. 1); Stresses in Simple Structures* (C. 2); Design of Roof Trusses and Plate Girders* (C. 3); Design of Railway Bridge Trusses* (C. 4); Principles of Reinforced Concrete* (C. 105); Concrete Arches* (C. 106); Principles of Reinforced Concrete* (C. 111).

Engineering, Electrical—Mathematics (C. 301, Parts I and II); Elementary Magnetism and Electricity (C. 310); Advanced Electricity and Magnetism (C. 310S); Theory and Operation of Direct-Current Machinery (C. 311); Principles of Direct-Current Machines (Advanced) (C. 311S); The Theory of Alternating Currents (C. 312); Alternating-Current Machinery (C. 313); Electric Lamps and Illumination (C. 314); Central Electric Stations (C. 316); Electric Power Transmission (C. 317); Telephony (C. 318, Parts A, B, and C); Commercial Electrical Measuring Instruments (C. 319); Watthour Meters (C. 319A); Electric Railways (C. 321); Storage Batteries (C. 322); Electric Central Station Distribution Systems (C. 323); Electric Wiring (C. 324); Essentials of Electricity (C. 327); 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); Elements of Machine Design (C. 209 A); Elements of Machine Design (C. 209B); Advanced Machine Design (C. 210); Practical Hand Firing (C. 213); Principles of Steam Engineering (C. 214); Heat (C. 215); Boilers (C. 216); Steam Engines (C. 217); Gas and Oil Engines (C. 219A); Gas Producers (C. 219B); Gas Engine Design (C. 219C); The Gasoline Automobile (C. 219D); Gas Engine Ignition (C. 219E); Automotive Ignition Systems (C. 219G); Refrigeration (C. 222); Compression System of Refrigeration (C. 222A); Heating and Ventilating (C. 223); Compressed Air (C. 225); Fuels (C. 231); Heating and Ventilating Public Buildings (C. 234); Principles and Practice of Plumbing (C. 235;) Carpenters' and Builders' Arithmetic (C. 241); Lumber and Its Uses (C. 242); Kiln Drying of Lumber (C. 242A); Principles of Architectural Drawing (C. 243A); Advanced Architectural Drafting (C. 243B); Cupola Practice (C. 272); Foundry Metallurgy (C. 274); Hydraulics (C. 281).

English—Elementary English (C. 1); English Grammar (C. 61); Practical English Review (C. 64); Intermediate English Composition (C. 2, Parts 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 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. 3A); Intermediate French* (C. 4); Technical French* (C. 5); Elementary French Composition* (C. 6); Advanced French Composition* (C. 7); Modern French Dramatists* (C. 8); Modern French Novelists* (C. 9); General Survey of French Literature* (C. 10).

Geology and Geography—Mineralogy* (C. 1); Economic Geology* (C. 2); Physical Geography* (C. 3); Elementary Geology* (C. 4); Commercial and Industrial Geography* (C. 7); Geography of South America* (C. 11); Geography of Europe* (C. 16).

German—Elementary German. A* (C. 1); Elementary German. B* (C. 2); Intermediate German. A* (C. 3); Intermediate German B* (C. 4); Scientific German* (C. 6); Commercial German* (C. 7); Critical German Prose* (C. 8); Grammar Review* (C. 9); German Composition* (C. 12); Elementary Teachers' Course (C. 19); Advanced Teachers' Course* (C. 20); Modern German Dramatists* (C. 25); Modern German Novelists* (C. 26); Schiller* (C. 22); Goethe* (C. 21); Goethe's Faust* (C. 29); History of German Literature* (C. 30, Parts I and II); History of German Language* (C. 31); Middle High German* (C. 32).

Greek—Elementary Greek* (C. 1); Xenophon's Anabasis* (C. 2); Homer's Iliad* (C. 3); Greek Composition* (C. 6A); Greek Composition* (C. 6B); Ancient Classical Drama in English* (C. 113B).

Health—Study of the Human Body (C. 6); The Prospective Mother (C. 7); The Child in Health (C. 8); The Child in Disease (C. 9); Local Health Officer's Work (C. 20); Public Health Nursing (C. 24).

Hebrew—Elementary Hebrew (C. 1); Elementary Hebrew (C. 2).

History—United States History (C. 1); American History 1760-1830* (C. 2); English History* (C. 6A); English History* (C. 6B); Modern European History* Part I (C. 8A); Modern European History* Part II (C. 8B); Medieval History* (C. 12A); Medieval History* (C. 12B); Oriental and Greek History* (C. 20); Roman History* (C. 21); United States History Review (C. 67); English History Review (C. 89).

Home Economics—Food Study for the Housekeeper (C. 1); Planning the Family Dietary (C. 2); Dietetics (C. 3); The House and Its Equipment (C. 4); Spending the Income (C. 5); Prevention of Disease and Home Care of the Sick (C. 6); The Prospective Mother (C. 7); The Child in Health (C. 8); The Child in Disease (C. 9); Sewing (C. 10); Study of Fabrics (C. 11); Dressmaking and Designing (C. 13); Dressmaking (C. 13A); Infants' Clothes (C. 14); House Furnishing and Decoration (C. 15); Feeding Children for Health and Growth (C. 16); The House and Its Management* (C. 19); Food and Nutrition* (C. 20); Applied Design* (C. 21); Cooking for Rural Schools (C. 25); Sewing (C. 26); Cooking and Sewing (C. 27A); Cooking and Sewing (C. 27B).

Italian—Elements of Italian* (C. 1); Elementary Italian* (C. 2).

Latin—Elementary Latin* (C. 1); Caesar* (C. 2); Cicero* (C. 3); Vergil's Aeneid* (C. 4); Advanced Composition* (C. 6); Livy*

(C. 7); Cicero: De Senectute* (C. 10); Terence: Andria and Phormio* (C. 12); Horace: Odes* (C. 14); Horace: Epistles and Satires* (C. 15); Catullus* (C. 16); Cicero: Letters* (C. 20); Ancient Classical Drama in English* (Greek, C. 113B).

Library Methods—Library Methods for Teacher Librarians (C. 1).

Manual Arts—History and Literature of Manual Arts* (C. 1); Teaching and Supervision of Manual Arts* (C. 2, Parts A and B); Organization of Manual and Industrial Arts* (C. 3); Vocational Education and Vocational Guidance* (C. 4).

Mathematics—Elementary Algebra (C. 1, Parts A and B); Plane Geometry (C. 3); Solid Geometry* (C. 4); Plane Trigonometry* (C. 5); University Algebra* (C. 6); Analytic Geometry* (C. 7); Elementary Calculus* (C. 8); Agricultural Mathematics* (C. 51); Commercial Arithmetic (C. 55); Commercial Algebra* (C. 56); Mathematics of Life Insurance* (C. 57 Parts A, B, and C); Advanced Calculus* (C. 65); Differential Equations* (C. 66); Theoretical Mechanics* (C. 67); Higher Algebra* (C. 68); Algebra for Engineers (C. 40); Elementary Analysis* (C. 41); Elementary Analysis* (C. 42); Elementary Analysis* (C. 43); Differential Calculus* (C. 44); Calculus* (C. 45); Calculus* (C. 46); Practical Arithmetic (C. 11); Mensuration and Practical Geometry (C. 12); Practical Algebra (C. 13); Practical Trigonometry (C. 14); Practical Calculus (C. 15); Shop Mathematics; Elementary Algebra (C. 62).

Mechanics—Statics (C. 1); Dynamics (C. 2).

Meteorology—Elementary Meteorology* (C. 1); Climatology* (C. 2).

Music—Theory of Music (C. 1c); Public School Music* (C. 31c); History of Music* (C. 75c); Elementary Harmony* (C. 5c); Advanced Harmony* (C. 61c); Community Music and Drama* (C. 97c).

Pharmacy—Pharmacy* (C. 1, Parts A and B); Elementary Prescription Practice* (C. 20A); Prescription Practice, Liquid Preparations* (C. 20B); Solid Preparations* (C. 20C); Advanced* (C. 21A); Advanced* (C. 21B); Advanced* (C. 21C); Prescription Incompatibility* (C. 21D); Pharmaceutical Technology, Liquid Preparations* (C. 22A); Solid Preparations* (C. 22B); Alkaloidal Assay* (C. 23A); General Chemistry, Part A* (C. 3); Inorganic Preparations* (C. 5); Qualitative Analysis* (C. 12); Morphology and Classification of Flowering Plants* (C. 10); Plant Histology* (C. 15); Drug Assaying* (C. 30); Physiological Chemistry* (C. 35); Pharmaceutical Chemical Analysis* (C. 40); Microscopical Examination of Food Products* (C. 45); Microscopical Examination of Drugs* (C. 46); Pharmacology* (C. 50); Toxicology* (C. 51).

Philosophy—General Psychology* (C. 1); Ethics* (C. 10); Business Ethics* (C. 12).

Physics—Elementary Physics (C. 1); Physics Review (C. 87); Physics, University* (C. 5); Physics, University* (C. 6); Physics, Engineering* (C. 51E); Physics, Engineering* (C. 52E).

Political Science—American Government and Politics* (C. 1); The American Judiciary* (C. 1A); The American Executive and Executive Methods* (C 1B); Party Organization and Management* (C. 3); American Legislatures and Legislative Methods*

(C. 3A); American Diplomacy* (C. 4A); American Constitutional Law* (C. 5A); International Law of Peace* (C. 5B); International Law of War* (C. 5C); Municipal Government in Europe and the United States* (C. 10); American Municipal and Civic Progress* (C. 6); Voting Methods and Elections (C. 15).

Public Speaking—Elementary Speech Writing (C. 1); Composition of Public Addresses* (C. 10); Argumentation* (C. 12).

Railway Engineering—Railway Curves (C. 1).

Roads and Pavements—Roads and Pavements (C. 501); Rural Highway Work (C. 502).

Spanish—Elementary Spanish* (C. 1); Elementary Spanish* (C. 2); Intermediate Spanish. A* (C. 3); Intermediate Spanish. B* (C. 4); Don Quijote* Part I (C. 7); Don Quijote* Part II (C. 8).

Surveying—Plain and Topographical Surveying (C. 441).

Teachers' Review Courses—Grammar and Elementary Composition (C. 63); Geography (C. 65); United States History (C. 67); Civil Government (C. 69); Physical Geography (C. 77); American Literature (C. 81); Elementary Algebra (C. 62); Physics (C. 87); English Literature (C. 91); English History (C. 89).

DEPARTMENT OF DEBATING AND PUBLIC DISCUSSION

ALMERE L. SCOTT, SECRETARY.

Purpose

For the assistance and instruction of citizens who are interested in important social, educational, and political problems, the Department of Debating and Public Discussion fosters forum activities for deliberative study and discussion.

Inasmuch as the intelligent and active interest in and study of these questions among all classes of people tend essentially to the making of good citizens, the department issues suggestive and guiding bulletins, collects and maintains a loan library available through parcel post, and keeps in close touch through correspondence and personal interviews with community centers, civic clubs, farmers' clubs, women's and business men's organizations, parent-teacher associations, school and library boards, and literary societies of educational institutions.

Bulletins

Several compact and useful guides have been issued as aids to debaters, including Debating Societies—Organization and Procedure; Principles of Effective Debating; How to Judge a Debate; Triangular Debating Leagues; and School Literary Societies. As

special aids to organizations, bulletins on Farmers' Clubs, Civic Clubs, and Parent-Teacher Associations have been published. The Triangular Discussion League bulletin suggests a plan to encourage the study and the intelligent discussion of great current problems not suited to a two-sided contest, but rather suited to a general discussion which brings out the many sides and salient facts.

FORMULATED QUESTIONS. The bulletins which formulate subjects for debate, giving brief historical facts and arguments, concluding with a selected, classified bibliography, serve as an impetus to careful study and have proved helpful and time-saving. Such questions as the following have been thus presented: Annexation of Cuba and Independence of the Philippines; Closed vs. Open Shop; Commission Plan of City Government; Initiative and Referendum; Municipal Home Rule; and The Recall. These publications are sent free upon request to Wisconsin citizens, and upon receipt of list price, outside of the state.

Loan of Material

The loan package libraries include selected newspaper and periodical clippings, office bound sections of periodicals, government documents, publications of organizations, copies of addresses, reprints, typewritten excerpts, books—in fact all forms of carefully selected available material dealing in a fair and balanced manner with the different phases of worth while subjects. This service is restricted to residents of Wisconsin. In order that material may be selected judiciously, it is essential that the request for a package library state definitely the purpose for which the information is desired, and the latest date upon which it would prove of value. The same material cannot be used to the best advantage by a rural school pupil and a member of a woman's club.

The department aims to cooperate in every possible way with local librarians. Requests from communities which have public libraries should state what is available locally, thus avoiding unnecessary duplication and expense.

DEPARTMENT OF GROUP AND COMMUNITY SERVICE

WILLIS WISLER, ACTING SECRETARY.

Purpose

The Department of Group and Community Service is composed of bureaus which deal with the informal or non-consecutive type of

service as distinguished from the more formal and systematic types of instruction. These bureaus are concerned with questions and problems of general interest and public welfare and are grouped under one secretary with the cooperation of appropriate faculty committees and bureau heads.

The department serves as a clearing house through which all reasonable inquiries of the people of the state on general matters may receive consideration.

Method

The department seeks to serve the individual inquirer, the group, and the community, in establishing contact with specific lines of information, through the accumulation of data and a digestion of such data for presentation in non-technical form, from such widely diverse sources as the reports of government bureaus, 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, Bureau of Community Development, Bureau of Commercial and Industrial Relations, and Bureau of Health.

Publications

The Department of Group and Community Service issues from time to time bulletins on subjects of timely interest. These are free to residents of the state of Wisconsin.

Exhibits

In addition to the specific lines of activity included within the fields of the various bureaus, the Department of Group and Community Service has found the use of traveling exhibits and demonstrations upon such subjects as child welfare, health, recreation, and community center work of very great value. The department expects to continue this form of service, suiting the type of exhibit and demonstration to the new needs of the after-war period.

Social Service Institutes

Before the war, the Extension Division had already demonstrated the success of the Social Service Institute which aimed to provide

opportunity for the intensive study of local problems of social service. The greatly increased interest in all such problems, as a result of the war, makes it desirable for the Department of Group and Community Service to do even more extensive work in this field. Through the Social Service Institute the communities of Wisconsin may utilize the expert service of the University for the study of special questions and for the crystallization of public opinion in favor of the correct solution of these questions.

BUREAU OF INSTRUCTION BY LECTURES

Purpose

For instruction and platform inspiration in communities where the lyceum need exists the Bureau of Instruction by Lectures organizes and supplies local programs.

Scope of Service

The University offers through this department: (1) single lectures or series of such lectures; (2) lecture, concert, recital, or reading programs or a miscellaneous combination of these. Such programs are offered with the definite purpose of developing better taste and higher standards with reference to public entertainments, and an appreciation of art, music, and literature by presenting examples.

Lectures. The field covered by the lecture courses is a wide one, including topics in education, history, geography and travel, political economy, political science, sociology, business administration, the history and literature of ancient and modern peoples, including Greek and Roman, Scandinavian, German, Semitics, French, and English life and letters, the physical sciences, engineering branches, forestry and physical training. The bulletins containing details of information will be sent on request.

Teachers' Conventions and Institutes. The Extension Division will provide speakers for these meetings as far as the regular work of the University will permit.

Commencement Addresses. This department arranges for commencement addresses to be delivered by members of the university staff and others available in this service. The charges will be arranged in each case for the speaker desired through the Extension Division.

Special Occasion Lectures. This department furnishes speakers for special occasions, such as memorial and dedication exercises,

convocation addresses in schools, commercial organizations, and civic and women's clubs.

Expenses

LOCAL EXPENSES. These include hall rent and advertising in the local papers, and the lantern and operator, where the lecture is illustrated.

UNIVERSITY CHARGES—LECTURERS' FEES. Full information concerning lecturers' fees will be supplied on application.

BUREAU OF MUNICIPAL INFORMATION

To meet the need for information in the important field of municipal government, information which is difficult to obtain and hard to keep up to date, a Bureau of Municpal Information is maintained for the service of the cities of the state. It collects and furnishes technical information on all subjects of municipal organization and administration, public works, public utilities and public service rates, commission and city manager government, home rule, civic organizations, and gives also information on municipal employment, paving, parks and playgrounds, housing, dust prevention, smoke abatement, city planning, civic centers, art commissions, care of city trees, schools, accounting methods, comparative statistics, and other subjects of municipal interest. The bureau collects and maintains a file of charters, ordinances, and official publications of the principal cities of the United States. It has correspondents in most of the American cities, and in this way is able to furnish information as to which cities have passed an ordinance of any type, for instance, a milk ordinance, or a wheel tax ordinance; to present data as to the efficiency of different types of ordinances; and, if desired, to lend copies of particular enactments. It can tell how boards of public works are organized in various cities, how school boards are constituted, or how street sprinkling or street repairs are paid for. In short, it aims to be a clearing house for municipal experiments and experiences.

BUREAU OF VISUAL INSTRUCTION

For several years the Extension Division has lent educational lantern slides, motion picture films, charts, exhibits, and other illustrative material to schools and other institutions and organizations. This service is organized into the Bureau of Visual Instruction, which is making a thorough and systematic study of materials that may be used in illustrative teaching, or in instruction through the

medium of the eye, and placing such materials within easy and constant reach of all schools and other civic organizations of the state. The bureau has a carefully selected collection of approximately 3,000 reels of film and 125,000 slides to be lent to schools for use is class work and for community gatherings. During the year 1919n 1920 thirteen circuits were established on which the material wa- routed weekly to 250 schools which applied for regular service for 24 weeks in succession. In addition service was given frequently to schools and civic organizations not in circuits.

BUREAU OF COMMUNITY DEVELOPMENT

The Bureau of Community Developments is designed to give instruction and guidance on community problems and advancement. It does this by correspondence, demonstration, conference of experts, speakers and the promotion of community enterprises, such as community music and drama, pageants, festivals, and celebrations.

The use of public buildings for such activities, especially a wider use of the school plant, is encouraged. While the community center movement is already well established in Wisconsin, the peculiar need at this time for a greatly increased development along this line is necessary because of the social and economic changes through which the country is passing.

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 Americanzation is through a better socialized community spirit.

The Bureau of Community Development is prepared to make suggestions and assist in the formulation of programs calculated to unify community life.

BUREAU OF COMMERCIAL AND INDUSTRIAL RELATIONS

The rapidly increasing interest in the question of industrial relations has necessitated the establishment of a Bureau of Commercial and Industrial Relations. This bureau is designed to find and collect information on the problems of commercial and industrial relations; to supply unbiased information on these problems; and to stimulate interest in the solution of all questions of mutual interest to employer and employe.

Three types of service are offered:

(1) A library and museum of forms and practices in labor management accessible by specific inquiry to employers and employes within the state;

(2) a bulletin service taking up in practical fashion industrial relations topics of universal and urgent interest; and

(3) a consultation and engineering service to industry within the state.

There are no charges for these services to residents of the state except for industrial engineering service for which operating fees contingent upon the circumstances of each case are required.

BUREAU OF HEALTH

The Health Instruction Bureau was established for the purpose of recasting into popular form scientific knowledge regarding the prevention and cure of disease. News health items are disseminated throughout the state, and exhibits, lectures, and correspondence-study courses are doing their work of educating the public in measures of prevention, care, and cure. The bureau undertakes to translate and make available the knowledge of the scientific departments through the main channels indicated. For this purpose it maintains a close relationship with a number of extra-mural and federal departments and organizations from, and in cooperation with, which information is secured and disseminated.

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. Courses on the following subjects, each consisting of one clinic and one lecture, are offered for the year 1920–21: Internal Medicine; Pediatrics; Dermatology and Syphilis; Neurology and Psychiatry; Genito-Urinary Diseases; Orthopaedics, Laboratory Diagnosis; Diseases of the Eye; Diseases of the Ear, Nose, and Throat; Obstetrics and Gynecology; Study and Control of Cancer.

SCHOOL OF MUSIC

CHARLES H. MILLS, DIRECTOR, PROFESSOR OF MUSIC.

General Announcement

The School of Music offers the following courses: a four-year course leading to the degree of Bachelor of Music; a two-year course leading to the certificate of Supervisor of Public School Music.

Individual instruction in vocal or instrumental music may be taken by students not otherwise connected with the University, and such students are not required to pay the incidental fee required of all university students, but they must be able to satisfy the usual entrance requirements. See p. 391.

Special students under twenty-one years of age, who have unusual musical talent, may, in exceptional cases, be admitted to the School of Music on the recommendation of the Faculty of the School although they may not be able to satisfy fully the entrance requirements.

Students wishing to enter the School of Music will apply to the Registrar, Room 158, University Hall.

Students enrolled in other schools and colleges of the University are allowed to include among their electives, credits in the School of Music not to exceed twenty. Of these, ten credits in advanced applied music instruction may be taken by juniors and seniors after the approval of their adviser and of the Director of the School of Music has been secured.

A detailed statement of musical courses will be found under Music in the College of Letters and Science.

Course of Study Leading to the Degree of Bachelor of Music

The School of Music offers a four-year course in music leading to the degree of Bachelor of Music. In this course the candidate may choose his major in one of the following departments: Applied Music; History and Theory; General Teaching; Public School Music.

N. B. Freshmen and sophomores may take work in applied music but receive no credit.

Musical Requirements for Entrance

Organ

No previous knowledge of organ playing is required, but a student will not be enrolled until he has acquired a satisfactory pianoforte technique and some skill in polyphonic playing.

Piano

Applicants for admission will be required to play music of the following grade or its equivalent: easier sonatas by Haydn and Mozart, Czerny, Op. 299, books I and II, Heller, Op. 47, easier Songs without Words by Mendelssohn. Some knowledge of major and minor scales is necessary.

Voice

The student must be able to read simple music and must have had an amount of training equal to the first half of Concone, with the usual technical study for the same period.

Violin

Candidates must be well grounded in correct position, intonation, tone, and bowing, and must have mastered the equivalent of David's Violin School, Part I, and the easier pieces of Dancla, Alard, and others.

Courses of Instruction

Freshman	Credits
Music 81-2-3-4, Applied	2
Music 1, Harmony	3
Music 71, Solfeggi	0
Letters and Science	
Foreign Language	4
English	3
History	3
Total	15

Sophomore	Credits
Music 81-2-3-4, Applied	2
Music 65, Appreciation	1
Music 75, Solfeggi	1
Music 11, Harmony	3
Music, Electives	3
Letters and Science	
Foreign Language	4–3
English or History	2–3
Total	15–16

Junior	
Music 21, Counterpoint	2
Music 31, History	2
Music, Prescribed electives	5
Letters and Science	
*Electives	3
Electives	3
Total	15

Senior	
Music 100, Thesis, or Music 100, Recital	2
Music, Prescribed electives	4
Music, Free electives	3
Letters and Science	
**Electives	6
Total	15

*Psychology and education, three credits required for students registered in the School of Education.

**Physics 1 including accoustics by arrangement with Department of Physics.

Prescribed Electives
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 78
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
Total	120†

All candidates for the degree of Bachelor of Music are required to pursue their studies in accordance with the above schedule.

Voice students are subject to the following exceptions: First, one year of membership in the Choral Union and two years optional with one of the Glee Clubs or Choral Union is obligatory, unless excused by the director. Second, at least two years of pianoforte study are required in addition to the prescribed work in voice, but the second year of pianoforte is substituted for elective in the second year.

Organ students are subject to the following exception: Those not sufficiently advanced may be required to take work in pianoforte during the first and second years, this to be decided by the instructor and the director.

Violin students are required to take two years of pianoforte study in addition to the prescribed work in violin, and may substitute those credits for electives.

There is opportunity for a liberal choice of electives in addition to the required studies enumerated above. These may be chosen from other courses offered by the School of Music, or by other departments of instruction in the University on consultation with the director or an adviser appointed by him.

Students must prove their efficiency before their graduation either by giving a recital or writing a thesis on a given topic. Students are allowed a choice of these alternatives on consultation with the director or an advisor appointed by him. Two credits are allowed for either recital or thesis. The latter is subject to the usual regulations.

Course for Supervisors of Music in Schools

This is a two or three-year course designed for those who wish to fit themselves for the supervision of music in the public schools.

A Supervisor of Music Certificate is granted on the completion of the course. Students expecting to proceed to the degree of bachelor of arts must satisfy the requirements for that degree.

†The same number of grade points is also required.

Students regularly enrolled in the Supervisor's Course will be allowed credit for work in pianoforte, violin and voice culture, under the provisions of electives.

Students who, upon entering, do not show suitable proficiency in pianoforte playing or singing (voice culture) will be required to take instruction in one or both at the discretion of the director and the chairman of the Department of Public School Music.

Students are required to take from 14 to 16 hours per week in recitations, lectures, etc., making 62 credits for the course.

Unless excused by the Director, membership in the Choral Union is obligatory, and is not counted as an elective credit.

In the second year not later than June 1, all candidates for graduation must submit an original outline covering one of the standard textbook series. This work is subject to the regulations under Theses. See p. 111.

The required work is as follows:

First Year	Credits
Music 41, Methods and Practice	4
Music 1, Harmony	3
Music 71, Solfeggi	1
Music 65, Appreciation	1
Music 81 or 82, Applied Music	1
Music 89, Practical Instrumentation	1
Music 5, Form and Analysis	2
Letters and Science	
English 1	3
Physical Education 6	0
	15

Second Year	Credits
Music 51, Methods and Practice	4
Music 11, Harmony	3
Music 75, Solfeggi	1
Music 31, History	2
Music 77, Choral Union	0
Letters and Science	
*†Electives	6
Physical Education	0
	16

Special State Certificate

Students satisfactorily completing the two-year course for Supervisors of Music will be entitled to a recommendation to the State Board of Examiners to receive a special state license to teach music in the public schools of the state. This recommendation will be issued by the Director of the School of Education (Prof. V. A. C. Henmon, University Hall, 217), providing:

(a) That the student registers in the School of Education not later than December 1 of the first year of residence.

*Psychology and education, 3 credits, required for students registered in the School of Education.

†The following courses are recommended as electives: Astronomy 1, Biology 1, Chemistry 1, Education 113, Fine Arts 122, French 1a, 1b, 10, Geology 1, 3, 4, German 1a, 2b, 3, 14, Greek 1a, History 1, 5, 10, Italian 1, Latin 1 and 6, Mathematics 1 and 2, Physics 1, Psychology 1. (Courses in home economics may not be elected by second year students expecting to proceed to a baccalaureate degree.)

(b) That the student has earned the following credits as electives: Philosophy 1 (psychology), three credits; choice of the following three-fifths subjects: Education 1 (History of Modern Education), Education 6 (Public Education), Education 11 (Mental Development), Education 31 (Principles of Education), Education 41 (Educational Psychology), or Education 90 (Technique of Instruction).

(c) That the student presents a statement from the Director of the School of Music as to general fitness for teaching.

General Course for Grade and High School Teachers

This course is designed for teachers who expect to combine the teaching of other branches with the subject of music, in grade and high schools. This class meets twice a week throughout the year. The work consists of a study of the technical points to be presented in the school and the practice of songs suitable for school use. This course is of value to those who expect to teach in public schools or who wish to conduct high school choruses, and includes training in conducting.

Public School Drawing

Students who take the two-year Supervisors' course will find it to their advantage to devote some attention to preparation for the teaching of drawing. For this purpose the following elective courses in the Department of Manual Arts are available: Course 50, Freehand Drawing and Perspective, I; Course 51, Freehand Drawing and Anatomy, II; Course 52, Methods Public School Drawing and Design II; Course 53, Practice Public School Drawing and Design, Yr.; Course 62, Industrial Arts Design, Yr.; Course 1 or 2, Elements of Mechanical Drawing, I or II.

Instruction in Applied Music

Pianoforte: Mr. Townsend, Miss Gunderson, Mr. Iltis, Miss Beecher.

Voice Culture: Mr. Swinney, Miss Jones, Miss Moutray.

Organ: Mr. Mills, Miss Eastman.

Violin and Viola: Mr. Geltch, 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 students of the University. The purpose of the organization is the study of the larger classical forms, as well as cooperation with the Choral Union, in the performance of representative choral works. The orchestra gives several concerts throughout the year.

Rehearsals are held weekly in Music Hall during the school year. Membership is open to the entire student body, including graduate students, provided they possess sufficient knowledge of any orchestral instrument to pursue the work profitably. After two semesters' connection with the orchestra a student may receive a credit of one hour for each of the two following semesters. This work is catalogued as collegiate course 76.

Band

MR. MORPHY.

The University Band, consisting of two sections of about sixty and thirty-five men, is open to all students possessing the necessary qualifications. The band represents one of the most important musical activities at the University, and gives some fifty performances each year. Each section rehearses in Music Hall twice a week throughout the year. Freshmen and sophomores belonging to the band receive military credit. Students who desire to join should confer with the bandmaster.

Choral Union

MR. DYKEMA.

The Choral Union is open to all members of the University interested in studying and presenting oratorios and standard choral works.

Membership is also open to others not in the University. There is a membership fee of one dollar a year. At least two performances (one at Christmas and one in the spring) are given each year. Rehearsals are held weekly in Music Hall from October to May.

This work is catalogued as collegiate course 77, and is open as an elective to students of all schools and colleges. University credit of

one unit-hour for the whole year is granted at the end of the season. Freshmen are eligible for membership, though without credit for the first year.

University Men's Glee Club

MR. SWINNEY.

The University Men's Glee Club is an organization of twenty-four men. This club makes at least one extensive tour during the school year. Vacancies are filled by competitive trial, and membership is open to the entire student body, including graduate students.

University Girls' Glee Club

MR. MILLS.

The University Girls' Glee Club is an organization of thirty-two women. Frequent public appearances are made locally. Vacancies are filled by competitive trial and membership is open to the entire student body, including graduate students.

Recitals and Concerts

All music students are required to attend the concerts, recitals, and lectures (public) given under the auspices of the School of Music.

Artists' Recital Series

The Artists' Recital Series consists of an annual course of recitals of chamber music.

Students enrolled in the School of Music are required to attend these concerts for which a fee of one dollar a year is charged (payable at the time of registration).

Students' season tickets at $1.00 are available to all students of all schools and colleges of the University.

Season tickets at moderate cost are also available to the general public.

Faculty 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 sesaon.

Student recitals, free to all students of the University and open to all others by invitation, are held at frequent intervals throughout the collegiate year.

Public performance being part of the course of study in a practical subject, all students are required to participate in a program when they are, in the instructor's opinion, sufficiently prepared.

Equipment

The School of Music is provided with a concert auditorium, lecture hall, teaching rooms for applied music, practice rooms, two two-manual organs, pianos, orchestral and band instruments, and an equipment of mechanical instruments.

Tuition

Resident tuition	Free
Nonresident tuition per semester	$62
Incidental fee for all students per semester	15
Concert fee (for academic year)	1
Choral Union fee (for academic year)	1
Applied Music, per semester:	
One-half hour of instruction once a week	20
One-half hour of instruction twice a week	36
One hour of instruction once a week	36
One hour of instruction twice a week	72
Practice rooms, per semester:	
Organ, one hour daily	9
Piano, one hour daily	3

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 being assigned work in the School of Music.

All students in Applied Music must present an Applied Music registration card before registering in the School of Music.

New students in Applied Music will be examined by the Examining Committee of the School of Music to learn the status of their work and to determine whether or not the subject can be taken for credit in the case of juniors and seniors from the College of Letters and Science. This committee will meet from ten to twelve on the first Monday, Tuesday, and Wednesday, 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 assignment of courses. After the opening of the University the director may be found at Music Hall from 11 to 12 and from 2:30 to 3:30 daily, Saturday excepted.

For further information address

C. H. Mills,
Director, School of Music,
The University of Wisconsin,
Madison, Wisconsin.

DEPARTMENT OF PHYSICAL EDUCATION

PROFESSOR T. E. JONES (CHAIRMAN); PROFESSOR MEANWELL; ASSOCIATE PROFESSORS ELSOM, LOWMAN (DIRECTOR OF MEN'S GYMNASIUM), TRILLING (DIRECTOR OF WOMEN'S GYMNASIUM); ASSISTANT PROFESSORS H'DOUBLER, LIPPIT, RICHARDS, SCHLATTER; INSTRUCTORS BURKE, BROWNELL, DRIVER, ELMORE, KLEIN, LINDEN, MOSSCROP, STEINAUER, QUICK, VAIL, WALLRICH, WILLIAMS, WESSON; ASSISTANTS BERG, HITCHCOCK, MEINERT, SPENGLER, TRUMPF.

Jurisdiction

The Department of Physical Education has jurisdiction over all athletic, aquatic. and gymnastic activities.

Aims

The aims of the department are as follows:

A. Student Growth and Development

1. To contribute to health, organic vigor, and good physical habits.
2. To provide an incentive and an opportunity for every student to secure at least one hour's physical activity daily as a balance to the sedentary demands of university life.
3. To conserve the social and moral values of games and sports and to secure to every student the fullest opportunity for their practice.

B. Training of Teachers

To train physical educators and play leaders.

C. Extension

To promote a more effective organization of play and administration of physical education throughout the state of Wisconsin.

Equipment

The Men's Gymnasium is 200 feet in length by 100 feet in width, with an annex 225 by 84 feet. On the ground floor are the offices,

locker rooms, bathrooms and swimming pool, and a special room for corrective exercise. On the second floor are the offices of the Military Department and an unobstructed hall 165 by 98 feet used for the purposes of military drill and games. On the third floor are the visitors' gallery of the drill hall, the military club room, and the wrestling room.

The fourth floor contains the gymnastic hall, 165 by 65 feet. The equipment includes the usual apparatus and four handball courts. The annex contains a 12 lap cinder track, a baseball cage with floor of earth, and the rowing room.

The Women's Gymnasium occupies five floors of Lathrop Hall. The main exercising room is two stories high with floor 118 by 60 feet, visitors' gallery, stage, and running track. The concert room, 72 by 42 feet, is used for smaller classes. An auxiliary class and game room, 42 by 72 feet, and a lecture room are on the fifth floor. The equipment includes a complete outfit of developing appliances and the best modern types of light and heavy apparatus.

Two floors of one wing contain dressing rooms, showers, and lockers designed for the accommodation of 1,000 women. In the basement are four regulation bowling alleys; the swimming pool, 60 by 26 feet, well lighted and ventilated and supplied with filtered water; dressing rooms, showers, and hair drying apparatus.

The outdoor facilities include the university athletic field at Camp Randall, 33 acres; the women's field at Memorial Park, 3 acres; the men's playground on the lower campus, 2 acres; and twenty-three tennis courts. The university roads, drives, and paths afford excellent courses for cross country running. The university boathouses next to the men's 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 skating and hockey on the rink maintained by the department on Lake Mendota.

Requirements

Physical training is required of all first and second year students throughout the college year, two periods a week for men and four indoor or three outdoor for women.

Men students are required to be able to swim a distance of fifty yards, women thirty-five yards, by the end of the sophomore year.

Credits to the extent of four for men and eight for women must be secured in physical education by the satisfactory completion of the regular courses.

Election of specialized sports and exercises (course 2) may be made by students as soon as they have attained the minimum standard of vigor, development, and skill. This will usually occur at the end of the first year. Freshmen who have attained the required standard at the time of entrance may elect their exercises under course 2.

For the purposes of this department the college year is divided into three seasons: **Fall**—October and November; **Winter**—December, January, February, March; **Spring**—April, May, and June. All activities are conducted out of doors as far as the weather will permit. Regular indoor exercise is confined to the winter months.

The regulation suit for men consists of white sleeveless shirt, running pants, supporter, and rubber soled shoes. For outdoor sports students will require heavy shoes, khaki trousers, and a negligee shirt or jersey.

For women a uniform suit is required and should be purchased in the fall in Madison: in 1919 the cost was about $10.

The gymnasium fee is $1.25 each semester, required of each freshman and sophomore and of all upper class women taking work in the department.

Exemptions and Deferments from Physical Training

All requests for exemption and postponements from physical training 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. Foreigners not desiring to become citizens.
   2. Physically unfit, on medical certificate from the Department of Clinical Medicine of the University.
   3. Short Course for Pharmacy students, known as Pharmacy II.
   4. Normal school graduates and those who enter the University with college work sufficient to give them junior rank in the College of Letters and Science, and other colleges with similar entrance requirements.

Students coming under the above classes will fill out the official exemption form in the office of the Director of the Gymnasium and have same approved by his adviser, dean or medical examiner.

II. Excused from physical training under policy of the department on authority of the Director of the Gymnasium.
   1. Students from institutions of college or university rank giving accredited courses in physical education. Proper credentials must be presented to show actual performance of duty and that the course given elsewhere equals that given here.
   2. Adult Special students over 23 years of age not intending to graduate.
   3. Such other cases as the Director deems advisable.

III. Deferments required to be made up in the department.
   1. Self-supporting students where the hours of labor actually conflict with the hours of required work.
   2. All cases not falling under any of those previously mentioned.

Note: In no case will work be permitted to be deferred for more than one semester consecutively, and no deferred work will be allowed to extend into the senior year.

Medical and Physical Examinations

The organic condition, stage of physical development, and degree of motor efficiency attained by each entering freshman and sophomore are determined at the opening of the college year by a series of examinations and tests made by the Department of Clinical Medicine and the Department of Physical Education.

An endeavor is made to determine the student's exact organic condition with a view to outlining for him a proper regimen of exercise, diet, rest and work. Students are classified on an organic scale and are permitted to engage only in sports and games for which they are physically fitted.

No student is permitted to participate in competitive games either of intercollegiate or intramural grade unless physically fit for the same as determined by the examinations.

All candidates for football and other teams must be examined by and secure the permit of the Department of Clinical Medicine as well as that of the Department of Physical Education before reporting for practice with their squads.

Enrollment and Assignment

All first year women are required to meet in the Concert Room, Lathrop Hall, Tuesday, Sept. 27, at 4:30 for instructions.

Assignments to classes will be made in the Gymnasium, Lathrop Hall, on Wednesday, Thursday, and Friday, Sept. 28, 29, 30, from 2 to 5 P. M.

All first year men in the College of Engineering will be assigned to class periods by the committees of that college. All first and second year men of the College of Agriculture and the College of Letters and Science will be assigned to class periods in physical education, at the office of the Men's Gymnasium during the week of registration, beginning Sept. 19. All assignments must be made by Saturday noon, Sept. 24.

All required activities of the Department of Physical Education begin Monday, September 26, 1921. 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.

Intramural and intercollegiate sports are under the government of the Athletic Council, a subcommittee of the Faculty Committee on Student Life and Interests.

Voluntary Exercise

All students are urged to secure at least one hour of recreative exercise each day and the facilities of the entire department are open for this purpose whenever not required for prescribed activities. Advice and direction may be secured by any student at any time. All advanced practice courses are open to any student fitted to take them.

Professional Training

See also pp. 261ff.

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.

The courses listed cover instruction in seven phases of work: (1) technical physical training activities, e. g., games, athletics, dancing, aquatics, gymnastics, etc.; (2) the functions and values of vigorous psycho-motor activities in the development of the child and in the recreative habits of the adult; (3) the growth, needs, and physical capacities of children and youth by age periods; (4) the physical examination and the classification of children and youth according to needs and fitness to participate in different activities; (5) the analysis and adaptation of activities to group and individual needs and capacities; (6) the principles of teaching and the methods of leadership in molding the moral expression of the powerful instincts expressed in play and in establishing hygienic and recreative habits; and (7) the principles of organization, management, and administration.

The requirements for 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. 243.

Minor

Students electing physical education as a minor subject must take courses 20 (for two years), 55, 59, (three credits each), and 21–50 (four credits); a minimum of ten credits. Physical Education 19 or Education A may also be required depending on the major subject of the student. Additional credits may be secured in courses 16, 21–50, 68, 71, 90 and 80, but the total credits shall not exceed twenty. Prerequisites are zoology or chemistry, Physiology 1 and Philosophy 1, and at least three credits in elementary education.

Departmental Teachers Course. Principles of Teaching and Adaptation. (Physical Education 90). I; 3 cr. Miss Trilling.

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. Men, two hours; women, four hours weekly.

2. Advanced Exercises. 1 to 4 cr. Systematic courses in athletics. Open to all students who have attained the required de-

gree of organic power and bodily skill. Prescribed for sophomores who have completed course 1. Prerequisite: course 1 or its equivalent.

3. Special Corrective Exercises. 1 or 2 cr. Required of all freshmen and sophomores unfitted to take courses 1 and 2.

4. Efficient Living. Given with course 1.

The work in courses 1, 2, 3, 4, and 20 is differentiated for the men and women according to their respective natures and needs.

Fall	Winter	Spring
1. Baseball	2. Basketball	1. Baseball
5. Cross country running	3. Boxing	4. Canoeing
8. Field hockey	6. Dancing	8. Field hockey
9. Football	7. Fencing	9. Football
13. Rowing	10. Gymnastics	13. Rowing
15. Soccer	11. Handball	15. Soccer
16. Swimming	12. Ice hockey	16. Swimming
17. Tennis	13. Rowing	17. Tennis
18. Track and field	14. Skating*	18. Track and field
	16. Swimming	
	18. Track and field	
	19. Tumbling	
	20. Water polo	
	21. Wrestling	

*Part season only and according to weather. May be elected only in connection with some other sport.

For Professional Students

For courses for professional students which are given under the jurisdiction of the School of Education, see p. 260.

MILITARY SCIENCE AND TACTICS

PROFESSOR OF MILITARY SCIENCE AND TACTICS: MAJOR JOHN S. WOOD, FIELD ARTILLERY, U. S. A., COMMANDANT; ASSISTANT PROFESSORS OF MILITARY SCIENCE AND TACTICS: MAJOR ORLANDO WARD, FIELD ARTILLERY, U. S. A., MAJOR HOWARD P. MILLIGAN, INFANTRY, U. S. A., CAPTAIN BURNETT R. OLMSTED, ORDNANCE, U. S. A., CAPTAIN JOHN A. BALLARD, SIGNAL CORPS, U. S. A., CAPTAIN JOSEPH H. COMSTOCK, INFANTRY, U. S. A., FIRST LIEUTENANT SUTHERLAND, INFANTRY, U. S. A., ASSISTANT TO THE COMMANDANT, MASTER SERGEANT WILLIAM G. ATKINS, INFANTRY, U. S. A., RTD.

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 are required for freshmen and sophomores, and elective for juniors, seniors, and graduate students. As the object of the training is to bring the largest possible number of students up to the proper standard of proficiency, and as the work is required by the rules of the University, exemptions, except for physical disability and as noted below, cannot be accorded to freshmen and sophomores, and any student who is absent from any part of the instruction will be required, subsequently, to make up the omitted training before being credited with the number of units necessary for graduation.

The courses provide the ground work upon which to build military character and proficiency, and are designed to develop the greatest possible initiative on the part of the student. They also provide that the cadet officers and noncommissioned officers shall par-

ticipate in the administration and training and share the responsibility therefor.

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 year 1920, is authorized to recommend one Honor Graduate of the Department for appointment as second lieutenant in the United States Army.

Registration

All male freshmen and sophomores are required to report to the Commandant in person during the registration period. They will then be assigned to companies and should, at this time, present any excuse which may operate to exempt them from drill or necessitate its 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.

(6) (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 the 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 $16 a month for twenty-one months. Students are paid at the rate of $30 a month while attending advanced course camps. All transportation to and from the camp and the expenses at camp are paid by the government.

Upon the satisfactory completion of the advanced course together with such camp training as may be prescribed, graduates who are twenty-one years of age are eligible for appointment by the President of the United States as members of officers' reserve corps.

Advanced Courses

The advanced courses in the Military Department are as indicated below. These courses are considered as three-fifths elective courses and academic credit is granted accordingly.

Infantry

1. Military Science. Yr. Field engineering; infantry weapons; minor tactics; leadership. Commandant and Assistants.

2. Military Science. Yr. Military history and policy; military laws; administration; minor tactics; musketry; leadership. Commandant and Assistants.

Artillery

1a. Military Science. Yr. Field engineering; minor tactics; reconnaissance; topography; gunnery; artillery material, motors; equitation. Major Wood, Major Ward.

2a. Military Science. Yr. Military history and policy; military law; administration; minor tactics; reconnaissance; gunnery; material; equitation. Major Wood, Major Ward.

Signal Corps

1S.C. Military Science. Yr. (In conjunction with Signal Corps 154a, 154b, College of Engineering, and Military Science 1). Signal Corps organization and tactics; telephone net construction and operation; message centers; codes and ciphers. Capt. Ballard.

2S.C. Military Science. Yr. (In conjunction with Courses 155a, 155b, College of Engineering, and Military Science 2). Signal tactics. Capt. Ballard.

Ordnance

1O. Military Science. Yr. (In conjunction with Military Science 1.) Ordnance material, nomenclature, action, care and use. Capt. Olmsted.

2O. Military Science. Yr. (In conjunction with Military Science 2.) Exterior and interior ballistics; gun design; optics of fire control instruments; explosives. (Given in College of Engineering). Mr. Jasper.

Uniform

All students will be provided with a cadet uniform as prescribed by and furnished through the Military Department. A deposit for this uniform is required but is returned to the student by the Bursar at the end of the academic year as explained in the *Regulations of the Military Department*, copies of which may be obtained from the Commandant.

WASHBURN OBSERVATORY

GEORGE C. COMSTOCK, DIRECTOR AND PROFESSOR OF ASTRONOMY;
ALBERT S. FLINT, ASTRONOMER, *Emeritus.*

The Washburn Observatory was established in the year 1878 through the munificence of the late Gov. Cadwallader C. Washburn. Although its obligations and opportunities as a branch of a teaching university have not been ignored, the energies of its staff from the beginning have been directed mainly to astronomical research. Among the lines of research cultivated are the measurement of the positions and motions of the heavenly bodies, the discovery and measurement of double stars, with investigations of their orbits, the investigation of variable stars, the study of changes of latitude and the amount and character of the atmospheric refraction, the determination of the amount of the aberration of light, problems of stellar color, proper motions of faint stars, and a systematic investigation of the parallaxes of all accessible stars which have large proper motions.

The principal instruments of the Observatory are:

An equatorially mounted telescope of 40 centimeters aperture, constructed by Alvan Clark & Sons, and provided with graduated circles, driving clock, a filar micrometer, a spectroscope, astrophotometer, and a very complete set of eyepieces; a meridian circle, by A. Repsold & Sons, of Hamburg, with collimators, transit micrometer, and the usual accessories of such an instrument. The objective of the instrument was made by the Clarks, and has an aperture of 12 centimeters and a focal length of 145 centimeters. The circle is graduated to 2 minutes of arc. For several years this instrument has been employed in an extensive series of determinations of stellar parallax. There are also a sidereal clock by Höwü, of Amsterdam, two meantime clocks by Howard, of Boston, a chronograph, by Fauth & Co., of Washington, and a printing chronograph by Gaertner.

In the Students' Observatory are mounted an equatorial telescope, by Alvan Clark & Sons, of 15 centimeters aperture, and a transit instrument of the broken telescope type, by Bamberg. These instruments, while primarily intended for instruction, are well adapted to and are employed for certain classes of original work. In particular,

the equatorial telescope has been provided with reflecting prisms (Loewy), and employed as one of the principal instruments of the observatory in an investigation of the refraction and the constant of aberration. The Bamberg instrument is used for latitude determinations by the Talcott method and for the time service of the Observatory. The Observatory also possesses a considerable number of subsidiary instruments, such as portable telescopes, spectroscopes, photometers, chronometers, sextants, engineer's transits, an altazimuth, a universal instrument, a personal equation machine, a spherometer caliper, seismoscopes, photographic and meteorological apparatus, and nautical charts and instruments.

The Woodman Astronomical Library, established in connection with the Observatory, and supported from the income of a fund given by the late Cyrus Woodman, possesses a large and valuable collection of works upon astronomy and kindred subjects.

The results of important investigations conducted at the Washburn Observatory are published by the state, and thirteen volumes, representing the more important work done, have been issued.

Students of sufficient technical attainments are admitted to the Observatory and take part in the investigations in progress. Meritorious original work of such students may be included in the Publications of the Observatory. For the courses of instruction in Astronomy see Index.

UNITED STATES WEATHER BUREAU OFFICE

ERIC R. MILLER, OFFICIAL IN CHARGE.

The local office of the United States Weather Bureau is located at the University as a result of the policy of the University to cooperate with the scientific branches of the Federal Government, a policy that is also expressed in its association with the Agricultural Experiment Station, the Forest Products Laboratory, the Geological Survey, etc. The official in charge gives instruction in meteorology in the College of Letters and Science, information regarding which will be found on p. 183.

The office, where the recording apparatus is in operation, is in room 409, North Hall. The exposed apparatus is mounted on the roof of the same building. The equipment includes eye-reading apparatus for measuring the pressure, temperature, and humidity of the air, the rainfall, the direction and velocity of the wind, the duration and intensity of sunshine, and the polarization of sky light, and automatic registers for continuously recording the majority of these elements.

Meteorological observations were made at Madison between 1853 and 1864 by Professors S. H. Carpenter and J. W. Sterling at the University, and Dr. A. Schue at his office on Main Street. From January, 1869, to October, 1878, they were carried on by Prof. W. W. Daniels at the University. The Signal Corps, United States Army, maintained an observing station in Madison from October, 1878, to April, 1883, while from May, 1883, to September, 1904, the observations were made at the Washburn Observatory. The present office, since its establishment in September, 1904, has continued the series of observations. All of these records are now on file in the Weather Bureau office, where they may be consulted. The office also has reports and publications relating to the weather and climate of the United States and other countries and is prepared to furnish information regarding them.

The office receives telegraphic reports from similar offices distributed over the United States and Canada, at 7 a. m. and 7 p. m. and prepares and distributes to the press and the public in central and southwestern Wisconsin the daily weather bulletin, the weather forecast, and other weather information. The office is open to the pubic from 9 a. m. to 4 p. m. daily, except Sundays and holidays.

FOREST PRODUCTS LABORATORY

MR. WINSLOW (CHAIRMAN) MR. TIEMANN, MR. NEWLIN, MR. MARKWARDT, MR. KOEHLER, MISS GERRY, DR. HAWLEY, MR. BATEMAN, DR. SHERRARD, MR. HUNT, MR. HUMPHREY, DR. KRESS, MR. WELLS, MR. EDWARDES.

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 investigations it approximates closely commercial conditions and cooperates extensively with the various manufacturing establishments in testing out its researches on a commercial basis.

The technical investigations of the laboratory are as follows:

(1) Mechanical Properties of Wood. Investigations on strength, stiffness, hardness, and other mechanical properties of commercial woods; effect of treatments on strength; tests on fabricated materials and manufactured articles; the development of grading rules for structural timbers.

(2) Kiln Drying and Wood Structure. Determination of best methods of kiln drying to eliminate losses; design and operation of dry kilns; studies of commercial kilns; the structure and properties of wood; microscopic studies and identification.

(3) Containers and Shipping Boxes. Study of containers and methods of packing; details of balanced construction; study of loss and damage to containers; designs and specifications.

(4) Plywood, Glues and Laminated Stock. Study of plywood manufacturing problems; strength and design of plywood; development and improvement of glues; analysis of glue components; in-

vestigation of internal stresses in laminated construction; study of new uses for laminated construction in commercial work.

(5) By-Products and Chemical Studies. Researches on the methods of production and utilization of by-products such as alcohol, turpentine, rosins, acetates, etc., obtained from various forms of wood and wood waste; the suitability of woods for pulp and paper and fiber specialties; the efficiency of various wood preserving processes and preservatives; fire proofing of wood and slow burning construction; researches on fungi which attack structural timbers with investigations aimed at practical means of prevention.

(6) Technical Studies of Industries. Study of the economic utilization of wood; lumber grades and specifications; methods of scaling and marketing logs.

The lectures and research are offered by the staff of the laboratory to both undergraduates and graduates, who may choose one of the problems as major or minor work for a thesis for a degree.

Student Research Assistantships

Students who show unusual ability in research may be appointed as student research assistants in this laboratory by the Forest Service or by the Bureau of Plant Industry, in accordance with the regulations of the United States Civil Service Commission. The salary will not exceed $500 a year; tuition and laboratory fees will be remitted. Application for these assistantships must be made to the director of the Forest Products Laboratory. The number of students thus appointed will largely depend upon the funds available and the number of problems taken up by the laboratory for solution.

Lecture and Laboratory Courses

A general course on forestry and utilization (101) is given during the first semester and is open to any student. This is followed in the second semester by a technical course in wood technology (102) open to all junior, senior, and graduate students and one on structural timbers (110) which is adapted particularly to junior, senior, and graduate engineers. One lecture course in the chemistry of wood utilization, 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 is given in cooperation with the Department of Plant Pathology during the second semester.

CHEMISTRY OF FOREST PRODUCTS

LECTURERS BATEMAN, HUMPHREY, HAWLEY, SHERRARD, KRESS, WELLS, HUNT.

For Undergraduates and Graduates

103. Industrial Chemistry Applied to Forest Products. II; 2 cr. Prerequisites: Chemistry 120 and 121. Mr. Bateman, Mr. Hawley, Mr. Sherrard, Mr. Kress, Mr. Wells, Mr. Hunt.

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. Kress.

F. Wood preservation and glues. Mr. Hunt.

FORESTRY AND WOOD TECHNOLOGY

LECTURERS TIEMANN, GERRY, HUMPHREY, KOEHLER, NEWLIN, MARKWARDT, HUNT.

For Undergraduates and Graduates

101. Forestry and Utilization of Wood. I; 2 cr. Mr. Tiemann, Mr. Koehler, Miss Gerry.

102. Wood Technology. II; 2 cr. Mr. Tiemann, Mr. Koehler, Miss Gerry.

110. Structural Timbers. II; 1 cr. Course will not be given unless attended by at least five students. Prerequisite: Mechanics 2 and 3. Mr. Newlin, Mr. Koehler, Mr. Hunt, Mr. Markwardt.

119. Diseases of Timber and Forest Protection. In the Department of Plant Pathology. See p. 334.

SPECIAL LECTURES

Given to supplement regular courses in the University of Wisconsin.

IN THE DEPARTMENT OF BOTANY

110. Plant Histology. Two lectures on wood structure. Miss Gerry.

115. Histology of Woods. Four lectures on the minute structure and characteristics of the wood of important forest trees. Miss Gerry, Mr. Tiemann.

IN THE DEPARTMENT OF MANUAL ARTS

4. Elementary Bench Woodwork. Five lectures on the physical properties of wood and wood structure. Mr. Tiemann, Miss Gerry.

5. Furniture and Cabinet Design and Construction. Three lectures on the theory and practice of kiln drying. Mr. Tiemann.

10. Wood Finishing. One lecture on the structure, development, and significance of tyloses. Miss Gerry.

IN THE DEPARTMENT OF AGRICULTURAL ENGINEERING

1. General Agricultural Engineering. One lecture on practical methods of preserving farm timbers. Mr. Hunt.

IN THE DEPARTMENT OF MECHANICS

52. Materials of Construction. One lecture on factors influencing the working stresses and grading of timber. Mr. Newlin.

IN THE UNIVERSITY EXTENSION DIVISION

Several lectures on various technical activities of the Forest Products Laboratory will be given. More specific announcements to be made by the Extension Division. Mr. Koehler.

IN THE DEPARTMENT OF HORTICULTURE

10. Farm Forestry. Two lectures on the properties of wood and preservation of farm timbers. Mr. Koehler, Mr. Hunt.

SUMMER SESSION

SCOTT H. GOODNIGHT, DIRECTOR.

The Summer Session, originated twenty-three 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-third Summer Session of the University of Wisconsin opens June 27, 1921. The session lasts six weeks and closes August 5. In the Law School the session begins June 20 and ends August 27.

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. 89ff.)

Students who desire to enter with advanced standing from normal or college should submit either by mail or in person, a complete record of their preparatory and college credit to the chairman of the Advanced Standing Committee, Professor 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. 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 154 of this catalogue.

Fees and Registration

The general fee for Summer Session, irrespective of the number of courses taken, is $20, except in the Law School (ten weeks) where the fee is $32.

Registration must precede entrance upon any part of the work of the session. Registration takes place Saturday, June 26, and Monday, June 28, at the office of the Registrar, 158 University Hall. In the Law School, registration takes place on Saturday, June 26, only.

Students who continue work beyond the regular summer session must pay an additional fee of $3.00 per week.

For estimates of the expense of a student during a session, see page 73. 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.

1920. June 3.
William Van Bemmelem, director of the Royal Observatory, Batavia, Java.
"The Volcanoes of Java,—Scenery and Science."

September 28.
Miss Margaret McGilvary.
"The War Trap in Syria."

October 7.
Mrs. Raymond Robbins.
"Aspects of the Social and Industrial Order."

October 20.
Hamlin Garland, author.
"Recollections of the Middle Border."

November 8, 9.
W. D. Bancroft, Cornell University.
"Theories of Contact Catalysis."
"Poisons and Promoters."
"Application of Contact Catalysis."

November 18.
Clarence Ward, professor of the history and appreciation of art, curator of the Museum, Oberlin College.
"The French Cathedrals."

November 22.
Henry DeMan, of Brussels, Belgium.
"Post Bellum Europe."

November 23.
Lorado Taft, of the Art Institute, Chicago.
"Modern French Sculpture."

November 30, December 1.
Michel Rostovtzeff, professor of history, University of Wisconsin.
"Russian Architecture and Painting from the XIth to the XVIth Century."

December 8.
Senor P. Ramirez of Chile, professor of Spanish-American history, University of California.
"Understanding South America."

December 16.
Dr. Bruno Rosetti.
"The Adriatic Situation."

1921. January 7.
Frederick Monsen.
"Mexico, Its Land and People."

January 14.
Dallas Lore Sharp of Boston University.
"Education for Authority."

January 17, 20.
Charles Wellington Furlong, F. R. G. S.
"Dalmatia and Its Hinterland."
"Turkey."

January 26.
Michel Rostovtzeff, professor of history, University of Wisconsin.
"Greek and Oriental Art in South Russia."

February 14.
Mrs. Carlton H. Parker, author.
"Human Nature and Labor Unrest."

February 15.
J. Duncan Spaeth of Princeton University.
"American Ideals and European Culture."

March 9.

Right Reverend Bishop Nicolai, head of the Orthodox Serbian Church.

"The Problem of Servia."

March 10.

Robert F. Griggs of Ohio State University.

"Katmai and The Valley of Ten Thousand Smokes."

March 12.

D. C. Hogarth of Oxford, England.

"The Arabs and the Present Political Situation."

March 17.

Abbe Ernest Dimnet of France.

"The Brontë Sisters."

"Coming Men in French Literature." (In French.)

March 18.

Frederick C. Moore, journalist.

"The Problem of Japan in China and Siberia."

March 25.

Charles McLean Andrews, Farnham Professor of American history, Yale University.

"Some Reflections on the American Revolution."

March 29, 30.

Franz Cumont, member of the French Academy, formerly professor in the University of Ghent and curator of the Musee Cinquantenaire at Brussels.

"The Evolution of the Belief in Immortality among the Ancient Romans."

"The Ways of Earning Immortal Life."

April 1.

Whiting Williams.

"The Industrial Mix-Up and Some Ways Out."

April 5.

Signora Olivia Rossetti Agresti.

"Life on an Italian Crop-Sharing Farm and Recent Developments of Italian Agriculture."

April 29.

Antonios P. Savvidis, formerly of Robert College.

"Constantinople and the Turk."

May 2, 3.

E. C. Franklin of Stanford University.

"The Ammonia System of Acids, Bases and Salts."

May 9.

John Holland Rose, of Cambridge, England.

"Napoleon and His Time."

May 12.

Dr. Chia Lin Chen.

"The Attitude of the Chinese toward English and American Literature."

"The Essentials of Chinese Philosophy."

"The Chinese Drama."

May 31.

William Romaine Newbold, of the University of Pennsylvania.

"A New Bacon Manuscript."

DEGREES

CONFERRED ON COMMENCEMENT DAY, 1920

COLLEGE OF LETTERS AND SCIENCE

Bachelor of Arts

Albert Anderson Aardal
*Mary Laura Aid
Max Henry Albertz
Marjorie Strong Allen
*Marion Ruth Anderson
Helen Marion Archibald
Harry J. Aronson
Lee Fairchild Bacon
*Grace Emma Barney
Cecilia Winifred Barrett
Marjorie Bartholf
Gladys Mercedis Baur
Beatrice Elizabeth Beal
Mary Doris Beard
George Gordon Bemis
Robert Henry Reese Benson
Caryl Zelda Bents
*Benita D. Berg
Doris Berger
Adeline Bertling
Margaret Elizabeth Billau
Lillian Bissell
Grace Vivian Bitterman
Mary Gertrude Black
Sophie Poehler Blaul
Mary Augusta Bonzelet
Leslie Jennings Bosworth
Agnes Adelaide Brackebusch
Dorothy Bradbury
Harriet Alma Bradfield
Melcena Vereeda Bradley
Hazel Anderson Brashear
Alma Martha Braun
Captola Rae Breyley
Dorothy Jessie Brickels
Dorothy Evelyn Bridge
Adelin Sumner Briggs
*Katherine Ruth Brogan
Dudley Cookingham Brooks
Melvin LeRoy Brorby
Margaret Relihan Brown
Esther Martha Brunkow
Eleanor Copeland Bruns
Helen Upton Burch
Janet Butler
Mary Lovina Caldwell
Emily Winifred Calvert
*Thomas Wilson Cape
Verna Adeline Carley
Helen Ovedia Carlson
Charles Hand Carpenter
Laurence Brinkman Chapman
Meda Augusta Chappel
Carter Cornelius Christiancy
Norma Eleanor Churchill
*Janet Ames Clapsaddle
*Reita Margaret Clapsaddle
Helene Clark
Thelma Lee Clark
Fletcher Gans Cohn
Helen Maude Colby
Florence Emily Collins
Daphne Grace Conover
Mary Converse
Katherine John Cook
Lois Marie Cottrell
Linton Alden Cox, Jr.
Margaret Dorothea Craighill
Paul Frederic Cranefield
Hannah Elson Cummings
Beatrice J. Cumnock
*Agnes Elizabeth Currie
Marguerite Conrad Dana
Dorothea Louisa Dangel
*Ethel Davey
*Alice Marie Day

*Degree conferred since Commencement, 1920.

Florence Roberts Day
*William F. Delaney
Herman Julius Deutsch
Helen Eliza Dodd
*Venice Marion Donkle
†Dorothy Ravenhill Dopp
Helen Masner Duke
Janet Durrie
Aline Elizabeth Elles
Dorothy Charlotte Evans
*Mae J. Farrell
Clara Vierling Fauerbach
Mary Ella Ferguson
Clyde Miser Ferrell
*Morris Edward Finsky
Marjorie Katherine Fisher
Charlotte Fitz-Gerald
*Harry S. Fox
Hugh Huntington Francis
Eleanor Adelheid Gaik
*Louise Ina Gardner
Anna Laura Gebhardt
†Huldah Hedwig Gerds
Elsie Florence Gibbon
Charles Albert Gill
James Ward Gilman
Rose Ruth Glassner
Elsie Gluck
Edwin Samuel Godfrey
Helen Dorothy Golder
Frances Mary Good
Harriet Goodwin
James Evert Grant
*Herbert Frederic Graper
*Maklem Wallis Gregory
Mary Elizabeth Gregory
Lethe Genevieve Grover
Alta Jeannette Gudsos
Ella Josephine Hadley
Dorothy Haessler
Agatha Helen Hahn
Dorcas Josephine Hall
Irane Corinne Hall
Laurence Waterbury Hall
Phyllis Brayton Hamilton
Florence Bernice Hanna
Sigrid Alfreda Hansen
Herman Kenneth Harley
Dorothy Beth Harrison
Elizabeth Harrison
Elsie Asenith Hartmann
Helen Ann Hartmeyer
Allen Eugene Hatch
Grace Esther Hathaway
Helen Celia Hauk
Louis James Hayes
Mabel Lucile Hedderich
Lela Mary Hendricks
Clarence W. Hendrickson
Ella Franzen Hendrickson
Ruth Boyce Hersey
Richard Philip Herzfeld
Mary Catherine Hickey
Marion Adah Hicks
Nathan Bradley Higbie
Isabelle Laura Hill
Helen Bertha Hinn
Virginia Miller Hinners
Josephine Hintgen
Hazel Lucy Hoag
Gertrude Betsy Hoagland
Adele Myrtle Louise Hoffman
Maude Marie Holscher
Lillian Esther Holzinger
Clara Viola Hoover
*Edith Hoppin
Doris Allegra Howard
Elsie Margaret Howell
*George Henry Christian Hoyer
Norma Marjorie Huber
Margaret Mary Hughes
Anne Humphrey
John Huston
Everett D. Ivey
Marion Elizabeth James
Helen May Jamieson
Amy Clara Jobse
*Imogene Hess Johnson
Ruth Ann Johnson
Ruth Ellsworth Johnson
Mildred Lyne Johnston
Edna Jones
*Grace Eloise Jones
Mabel Anna Jones
Vesta Norine Jones
Ruth Jorndt
Ruth Kautsky
Edward Peter Kearns
Charles Leonard Kimball
Goldes Vilas Kischel
Mary Virginia Kitchell
Frances Elfrieda Klass

*Degree conferred since Commencement, 1920.
†Degree conferred January 21, 1920.

Amanda Augusta Kluth
Laura Ruth Kremers
*Irwin Kjelland Krohn
*Hattie Ottelia Krueger
Helma Elizabeth Kuehn
Elizabeth Risk Lamb
Ivan Louis Lange
Grace Langshore Lauman
Charles Adolph Lebowsky
Margaret Irene Lee
Carl Lemm-Marugg
Harriett Elizabeth Leverich
*Dorothy Levy
Margaret Jane Lewis
Lucile Sara Liebermann
Janet Edmond Lindsay
Chung-Hung Liu
*Ven Hai Liu
Margaret Logeman
Zella Grace Loomer
Lois Virginia Lovell
Ruth Campbell Luckey
Evelyn Charlotte Ludlow
*Bertha T. Lund
Laura Thelma Lund
Cornelia Devlin McCabe
Lester Follett McCabe
Katherine Louise McCain
Donald Sisson McCandless
*Stanley Russell McCandless
Elizabeth McCollister
John Raymond McCrory
Michael Edmund McGarty
*Chester Eugene Mac Lean
*Margaret C. McMeans
John Weitz McPherrin
Ralph Sutherland Mackay
Catherine Mary Maher
Evangeline Genevieve Maher
Samuel August Mahlkuch
Gertrude Bertha Margraff
Margaret Corneila Markham
Richard Hughes Marshall
Dorothy Isabel Martin
Ruth Agnes Mary Martin
*Madeline Eleanor Mathews
Eva Melby
Mildred Rutherford Mell
Louis Taylor Merrill
Lael Frances Metcalf
Lethe Viola Metcalf
Sylva Beyer Meyer
*Fanny Miller
Maude Miller
Winifred Vanderpool Miller
Orpah Ruth Moe
Irmgard Clarissa Mondschein
Sidney Frederick Moody
Anne Evelyn Moore
Margaret Marie Moran
Wade Hampton Morman
John Rodgers Moroney
William Joseph Moroney, Jr.
Walter Edward Mueller
Caroline Walker Munro
Elizabeth Hazel Murphy
Eunice Nelson
*Kathryn Nelson
Anna Mirbelle Netherwood
Layretta Hessen Nichols
Gerturde Murilla Noetzel
Lucile Adeline Nutter
Marguerite Frances Nuzum
Grace Myrtle Oberheim
Helena Martinsen Odegard
Lucille Eleanor Olsen
Stella Ethelberta O'Malley
Gertrude Josephine Oppelt
Eighmy-bell Osborn
Elvira Otilia Ostlund
George Emmet Ostrander
Elli Otteson
Leona Frances Owen
Abbie Neal Parmelee
Mannie Nutt Parsley
Clara Olive Paulson
Ernest Herman Pett
Melba Irene Pettegrew
*Cyrus L. Philipp
Eugenia Langson Plumb
Autentia May Porter
Marion Sara Prentiss
Sarah Louise Proctor
Mildred Vaill Puckett
Lowell Joseph Ragatz
Helen Ramsey
John R. Ramsey
Iva Lucille Rankin
Vilas Lenor Rasmussen
Harold West Reed
Margaret Helen Reeder
Margaret Beatrice Reinking
Robert Ernest Rettger
Gladys Evelyn Riggs

*Degree conferred since Commencement, 1920.

†Joseph Wencel Riha
Olive Ellen Robinson
Gerhard Krohn Rollefson
*Frances Eleanor Rudy
Madge Irene Ryan
Louise Sammons
Gladys Ruth Schilling
J. Rudolph Schlicher
*Gladys Marguerite Schlosser
Elsie Florence Schmidt
Theodore Livingston Scholtz
*Clarence Karl Schubert
Johanna Henrietta Schulz
Ethel Maude Schumacher
Ruth Johan Settle
Lois Katherine Sevringhaus
Whitney North Seymour
Pauline Shortess
Dorothy Shurtleff
Frederick Philip Heyward Siddons
Anita Mary Siewert
Paul William Simonds
John Douglas Simpson
Marjorie Du Val Simpson
Mildred Iantha Sinclair
*Sister Mary Virginia Howe
*Sister Mary Timothy
Ragnhild Synnove Skaar
Emmett Patrick Smith
Mabel Gertrude Smith
Mildred Trabue Smith
Ruth Donaldson Smith
George Daniel Spohn
Esther Anna Stacy
Bonnye Lucile Stanley
Marie Louise Steensland
Violet Esther Stevenson
Duncan James Stewart
*Bessie Joan Stirwalt
Anna Beryl Stofflet
Estelle Ruth Stone
Carolyn Nelson Storlie
Albert Emmanuel Strassburger
Winifred Irene Sullivan
Alfred Hendricks Taylor
Elsie Elizabeth Taylor
Harold Beecher Taylor
Katheryne Cornelia Taylor
Kathryn Estelle Tenney
Halstead Coleman Terry
Hermance Sarah Teshner
Evan G. Thompson
Marion Elizabeth Tormey
Frances Turney
Helen Ruth Ulrich
Freda Emmert Umbreit
Ruth Marie Urban
John Hasbrouck Van Vleck
Marion Elizabeth Vesey
Mary Anne Scott Vose
Hester Wade
Margaret Louise Wagner
Newton Van Derveer Wagner
Esther Juliette Wanner
Frances Marian Warner
Isabelle Amanda Waterman
Goodwin Barbour Watson
Gertrude Weber
*Herbert John Weeks
Eleanor Eva Weidenfeller
Elizabeth Ann Weimer
Anita Elizabeth Weiskirch
Helen Catherine Weiss
Harvey Jennings Weisse
Beatrice Louise Weld
Henry Conrad Wellauer
Mary Irene Welsh
Margaret Gray Wensley
Lola Anna White
*Robert Laird Whitlock
James Arthur Wickham
Alva Curtis Wilgus
Vira Frances Winchell
Evelyn Wise
Marie Gladys Wittwer
Delphine Wood
Florence Margaret Wright
Anthony George Zulfer

Course in Commerce

Gordon Dale Adams
*Elizabeth Marie Andersen
Carlton Leroy Austin
James Patrick Baker
Marcus L. Baxter
Otto Herman Emil Behrendt
Lloyd Bergset
Frederick McIntyre Bickel

*Degree conferred since Commencement, 1920.
†Degree conferred January 21, 1920.

John Kruggel Boeing
Roland Durfee Bohnson
Jacob Herbert Burgy
*Clark Joseph Carroll
Arthur Luther Chandler
William Arthur Clark
*Pearl Elizabeth Claus
Orpha Marie Coe
Charles Dewey Culbertson
Donald Dohr
James Rowells Donovan
Elmer Michael Doyle
Leroy Eugene Edwards
Raymond Delos Edwards
Willard Valentine Erdmann
Grant Allan Feldman
Robert Drake Fitzgerald
Mary Collison Fowler
Walter Emerson Freund
Henry Herman Gildermaster
Joseph Nicholas Glaser
*Arthur Albert Goetsch
Loring Theodore Hammond
John Louis Hanssen
Florence Mary Harrington
Don Edward Harrison
Irene Annette Hensey
Floyd Fisher Hewett
Roswall Elof Hewett
*Gerald Burgh Hodgins
Harold Lawrence Holtz
Philip Paul Holzberg
*Laura Huntting
Edith Belle Hurley
Clarence Venoah Joerndt
Herbert Mandel Kahn
Eugene William Karow
Henry Bonns Katzenstein
Marvin Stephen King
Loyal Herman Kletzien
Laurence Stevens Knappen
Lincoln Dewey Knorr
Edward David Levy
James Milton Lindsey
Raymond Francis Linehan
Sim Thaxter McCray
Morland John McMurry
Walter Louis Maier
Walter Frederick Mandel
Berthold Charles Mann
*Frederick John Mann
*Paul Adrian Meier
*Karel Christian Melaas
Willard Doris Merrill
*Henry Lawrence Metz
William Martin Metzker
*Lawrence Emmons Meyer
Ross Bacharach Meyers
*James Christolph Miller
David Weston Moore
James Francis Mungavin
Daniel Francis Murphy
Frederick Washington Nelson
Laura E. Hagerup Nissen
Samuel Eugene Ogle
*Frederick William Oldenburg
*Will Garth Olin
William Otto Olson
John Purdy Owens
*Einar Bernhardt Oyaas
Herman Emil Pagel
Harlow Heath Pease
Edward Lee Perkins
Oswald Henry Peters
Carl Edwin Petersen
*Roy John Pieh
*Harold Otto Pinther
Harold James Pratt
*John Alvan Quimby
Robert Livingston Rewey
Erwin George Sachse
Zigmund Salit
Henry Schatzle
Albert Knauer Scheidenhelm
Edwin William Schenck
Willard John Schenck
George Arthur Schmidt
Walter Edward Schneider
Richard Jost Schomberg
Harold Louis Schumann
Albert Norman Seielstad
J. Herbert Shellenberger
Ernest John Shellman
Sanford Fred Smith
Leland William Spickard
Ralph De Merit Stiles
Frederick Stewart Stuhler
Russell Fayette Taylor
Arthur Reinhold Upgren
Ellis Leonard Vanderjagt
D. Scott Welsh
Archie John Werrbach
Harry Leroy Westphal
Charles Herman White
Frank Edward Wilder

*Degree conferred since Commencement, 1920.

Course in Journalism

*Claire Woodworth Ashford
Marion Faith Bergeson
Franklin Elisha Bump, Jr.
Elmo Carlyle Dopkins
Alice Grace Edison
Leonard Frederick Erikson
Dorothy Guernsey
Edith Jane Hadley
Leatha Vesta Hartung
Robert Thal Herz
*Margaret Mable Johnson
Garnet Estelle Kleven
Adelina Longaker
Mary Iva McDonald
Bernard Edward Meyers
*Carl Grover Miller
Marion Eleanor Moore
Kenneth Eugene Olson
Walter Andrew O'Meara
*Mildred Allene Potter
Hugh Leo Riordan
Marion Regula Roth
Ella Marion Schulz
Owen LeGrand Scott
Lucile Charlotte Selk
Harold Johnson Swan
Marcia Whipple
Margaret Curtiss Wilson
Hazel Zeta Wolfe
Bertram George Zilmer

Bachelor of Philosophy

Normal Course

Bernice Albright
*LeRoy Joseph Doleysh
Lucile Marguerite Drewry
Lillian Christine Hanson
Ella Catherine Heiliger
Merville Kummer Hobbs
Frederick William Jungck
Herman Frederick Kell
*Walter Frank Kruschke
William Francis Livingston
Agnes Lynch
Grace Christina McLay
Chester Harold Matravers
*Lila Belle Olson
*Joseph Samuel Pitts
Ruby Anna Rottiger
Ella Cora Schuldt
George Lane Simpson
Earl Duane Smith
Henry Earl Smith
Nellie Beth Wilkinson

General Course

*Catherine H. Bur
John Van Brunt Cox
*Irene Wilson Haley
Elmer John Koch
*Leonard Seymour Lugoff
Baron De Hirsh Meyer
Victor Jacob Schulte
Helen Marion Snyder
Victor Solberg

Bachelor of Science

Chemistry Course

Andrew Irving Andrews
Cornelius F. Arzberger
Fritz E. Bischoff
*Englebert Andrew Blonein
Harold Braun
Lucille Eastwood Chase
Arthur William Coe
George Andrew Corine
Sheldon James Dickinson
Lucy Louise Finner
William Albert Flogaus
*William McKinley Fowler
Marie Helen Grams
Clarence Reinold Hackbart
*Mabel Beth Hart
Bertram M. Helfaer
Evan Philip Helfaer
Erwin Albert Hentzen

*Degree conferred since Commencement, 1920.

Lowell Whitman Himmler
William Floyd Holbrook
Carl Arthur Hoppert
Frederic Arthur Horton
*John R. Koch
Henry George Koehler
William Richard Maleckar
Max Lionel Mead
Mary Josephine Prichett
*Robert Wright Short
John Vernon Steinle
Henry Gordon Taylor
Norton Andrew Thomas
John Verhulst
*Clarence Joseph Vollmar
Henry Nicholas Wolf

Physical Education Course

Marian March Johnson

Pharmacy Course

Franklin James Bacon
Ko-Kuei Chen
*Homer Kavies Kesten

Graduate in Pharmacy

William W. Albers, Jr.
*Leo Vinton Butts
*Harry Emerson George Consigny
*Virgil Burdette Critchlow
Earl Welton Dieter
*Gilroy Orlando Falstad
*Albert Kotenberg
Joseph E. Lunda
*Harold Nilssen
*Milo Alfred Phillips
*Floyd Cecil Rath
*Samuel Eddy Ross
Hugo Joseph Vorlop
Leo LaVerne Wright

Medical Science Course

*Clarence Edwin Bach
Kenneth Cochems
George Wayland Coon
*Harold Macomber Coon
Artman Harvey Dahle
Edward Thompson Evans
Clarence Henry Falstad
Robert Louis Gilman
Arne Christian Gorder
Erwin John Haberland
Jeanette Harrison
Vernon James Hittner
Herman Harry Huber
*Robert Kenneth Irvine
*Earl Elton Kidder
John Frederick Krumm
*Gerhard William Lorfield
Simon Luban
‡Francis Edward McDermott
*Samuel Arthur Machlis
‡John William Martini
Robert Dinsmore Millard
*Francis Joseph Morris
Orrin Van Overton
‡Purcell William Piper
*Herbert Albert Raube
Sverre Quisling
*Erwin George Seybold
Robert Henry Smuckler
†William Alvin Sneeberger
William Stern
Edward Frederick Tierney
*Roscoe Vanderbie
Daniel Richard Werba

SCHOOL OF MUSIC

Bachelor of Music

Dorothy Dixon Dennett
Marjorie Helen Lacy
Nellie May Larsen
Florence Marie Nash

*Degree conferred since Commencement, 1920.
†Degree conferred January 21, 1920.
‡Died in military service, S. A. T. C.

*Paula Louise Ruder
Esther Irene Schneider
Doris Marion Simonson
Georgina Wilson Smith
Ruth Marie Turner
Mildred Louise Winnie

Graduates from Course for Supervisor of Music

Beulah Margaret McComb
Frankie Margaret Ogle
Paul Philip Sanders
Doris Marion Simonson
*Myra Rebecca Sumption
Lucille Justine Teske
Mildred Louise Winnie

COLLEGE OF ENGINEERING

Bachelor of Science

Civil Engineering Course

Herman Adolph Blau
Melvin Robert Charlson
Henry Wesley Clark
Gordon F. Daggett
Erwin Dames
*George Gordon Frater
Raymond Arthur Heffernen
William Gay Huber
Frank Karger
Charles Pomeroy Kidder
Robert Ferguson Light
Herbert O. Lord
Vincent George McGraw
Harold Washburn Mead
Merville C. Neel
Frank K. Quimby
Fred Anthony Rankl
William Jacob Rheingans
Emmanuel Scheinfeld
Lewis Raymond Sherburne
Robert Evans Smith
Will Robert Steele
Dwight Hawthorne Stiles
Peter Anton Zahorik

Mechanical Engineering Course

Lawrence Franklin Campbell
Frank E. Downey
Joseph I. H. Dresen
Elmore Walter Fiedler
Reimar August Frank
Arthur William Gaubatz
Henry Farnam Griswold
Waldo G. Hansen
Clarence Ferdinand Hanson
*George Benjamin Kuebler
Herbel Arthur Lange
Arthur Eugene Liebert
Herbert Edward Lindemann
Eugene Dickens Maurer
Royal Lewis Meyer
Delmar Wood Nelson
Ralph Thompson Osman
Halsey Franklin Owen
Bertram Harvey Puerner
Harold Daniel Timm
Edward Barnes Williams

Electrical Engineering Course

Walter Edward Blowney
Harold Paton Scott Day
Chase Donaldson
Franklin Davis Fulton
Ray Ezra Hamilton
Ernest A. Kerler
Rudolph Robert Knoerr
William John Ladwig
Dallas R. Lamont
Lynn Norman Lillesand
Verni Ernest McCallum
David Francis McConnell
Orville Edward Radke
Alexander Elliot Rice
*William Herbert Snider
Peter Ernest Wichnovitz

*Degree conferred since Commencement, 1920.

Chemical Engineering Course

Walter Otto Baumann
Robert A. Baxter
*Alvin Charles Braun
Ronald Irwin Drake
Frederick William Geussenhainer
*Frank L. Griswold
Presley D. Holmes
Elton Knight Morice
John Joseph Oberly
Roland Andrew Ragatz
Albert George Schutte
Allen Spafford
Joseph Arnold Staidl
Waldemar Velguth
*David Clarence Zuege

Mining Engineering Course

George John Barker
Walter Arthur Emanuel
Marcellus James McKinlay
Earl Samuel Prince
Otto Adolph Ray
Donald Valentine Slaker
Fred Melville Wolverton

COLLEGE OF AGRICULTURE

Bachelor of Science

Agriculture

Harold Taylor Albrecht
Harry Gerdhart Anderson
John Arlington Anderson
Paul Kester Ayres
Cornelius Hammett Baldwin
Orin True Bean
Roland Martin Bethke
Lawrence Markert Billerbeck
Thomas Henry Binney
*John Edelston Bowstead
*William McKinley Brandon
Howard Jonathan Brant
Allen Russel Burr
Bruce Lanpher Cartter
Daniel E. Cass
Harold Harrison Cole
Paul Sidney Wolverton Conger
*Henry Bridges Cornish
Herbert Lyle Cramer
Charles Bemrose Drewry
William Edward Drips
*Walter A. Duffy
Paul Axel Clarence Eke
Hugh Robert Emerson
Charles Michael Fardy
Irven Gray Gibson
John Francis Hamlin
Earl Albert Heassler
Carroll Cody Hills
Clarence Stanley Johnson
Mary Cecilia Johnstone
James Hazlitt Jones
Howard Charles King
George William Larson
Samuel Lepkovsky
Arthur Joseph Lonsdorf
*Elmer Reynolds Meacham
Jessie Megeath
Norman Theodore Meineke
Sidney Parkman Murat
Ralph Otto Nafziger
William Isaac Nightingale
Sigurd Ferdinand Olson
Louis Henry Pancok
James M. A. Payton
Edward Walter Roth
Rebecca Louisa Ruhl
Ernest V. Ryall
Baxter Page Sayre
Albert Lee Schrader
Cornelius Chapman Scott, Jr.
*James William Shepherd
Dudley Chase Smith, Jr.
Wyman Sydney Smith
Herbert Sponholz
Francis Perit Spoor
Otto Stader
Ellis Adolph Stokdyk
Harry A. Stumpf
Francis Thomas Sullivan

*Degree conferred since Commencement, 1920.

John Radford Taylor
Gilbert Theodore Tennis
*Allan Philip Uhl
George Ely Van Hagen, Jr.
Elizabeth Mary Vennus
Floyd Russell Wall
†Howard Stanley Wanzer
Walter Alfred Wendt
Francis Edward Whitney

Home Economics Course

Elnora Baker
Olive Maud Beardsley
Eleanore Mary Bogan
Ann Gertrude Braun
Anita Burnam
Catherine Eloise Cleveland
Carol Matilda Coates
Ruth Eugene Coffman
Freeda Marguerite Couton
Emma Dernehl
Margaret Mary Dickson
Mary Katherine Elliott
Regina Mary Feeney
Elizabeth May Fitch
Ethel Fricke
Leta Marie Gowdy
Helen Margaret Harman
Gertrude Mathilda Heisig
*Harriet Guinoir Helberg
Agnes Elizabeth Hottel
Mildred Marie Hussa
Mary Kinlock Hutton
Marie Margaret Karlen
Marion Kimball
Ruth Poland King
*Alice Jeanette Kirk
Dorothy Adelaide Krueger
Elizabeth Kundert
Cleo Eleanor Lamb
Hazel Ruth Leavitt
Christina Menzies McLay
Isabel Zuill McLay
Sadie Agatha McNulty
Frances Eleanor Malim
Ada Elizabeth Miller
Stella Trout Patton
Helen Hope Perkins
Mae Eleanor Schernecker
Meta Louise Schroeder
Vera Jane Skinner
Gladys Lucille Slininger
Kathryn Frances Stackhouse
Wava Beth Tamblingson
Ellen Mae Tenney
*Dorothy May Trickey
Verna May Tucker
Dorothy Belle Wood
Margaret Woodruff
*Lucy Castle Woolery
Lois Wuerpel
Frances Margaret Young

Graduate in Agriculture

George Walworth Abell
Arthur Michael Carmody
Helmer Cornelius Casperson
*Jay Walter Cristy
*James Willard Davis
Laurel Archer Duffin
Arthur Magnus Knutson
John August Last
*George Frederick Massey
Robert Monteith, Jr.
*Angeline Rose Napiecinski
Otis Wilcox Palmer
Ruth Ann Sayre
Albert Fulton Smith

Graduate in Home Economics

Esther Bertha Heise
Olive Kingston

*Degree conferred since Commencement, 1920.
†Degree conferred January 21, 1920.

LAW SCHOOL

Bachelor of Laws

[1]Stuart Alfred Bishop
[1]Alvin Gottfried Brendemuehl
[2]Mahlon Humphrey Caradine
[3]Robert Harrison Fischer
[1]Harry Verne Forehand
[1]Lawrence Earl Gooding
[3]John Gross, Jr., B.A.
[4]Harold Myron Langer, B.A.
[1]Robert William Monk, Jr.
[2]Peter Anton Napiecinski
[2]John Logan Newman
John Charles Pile, B.A.
Carl Elder Porter, B.A.
Louis Atwater Pradt, B.A.
[3]Lester William Raeder
George Louis Ruder, B.A.
Karl August Schmidt
Lothar Adolph Schweichler, B.A.
[1]Farrand Dames Shuttleworth
[2]William Henry Stevenson
[2]Wallace Thauer
[3]Arthur Albert Thiele, B.A.
[4]Thomas Emmett Torphy
[3]Irvin Arnold White, B.A.
Malcolm Kenneth Whyte, B.A.
[3]James Arthur Wickham, B.A.
[2]James Richard Wilkinson, B.S.

Certificate

Carl Edwin Behnke
Lawrence John Brody
Emmet Joseph Conley
Harry Verne Forehand
Lawrence Earl Gooding
Francis Delmar Higson, B.A.
Lyel Newton Jenkins
Gilbert Frost Lappley
Romeo Curtis Laus
John Glenn McWilliams
Robert William Monk
Robert LeRoy Peters, B.A.
Chester Dee Richardson, B.A.
Harry William Riley
Philip Kyle Robinson, B.A.
Ira Otis Slocumb
Sylvester Lawrence Wheeler, B.A.
James Arthur Wickham
Eugene Ward Winton

GRADUATE SCHOOL

Master of Arts

Hul-Cee Marcus Acton, B.A. (Georgetown College, Ky.) in French
*Claudia Mae Allen, Ph.B. (University of Chicago) in History
Arthur J. Altmeyer, B.A. (University of Wisconsin) in Economics
*Hilding Edward Anderson, B.S. (University of Wisconsin) in Economics
Sarah Elizabeth Ashby, B.A. (University of Wisconsin) in English
Ray Erwin Baber, B.A. (Campbell College) in Economics
*Robert Isaac Barker, B.A. (University of Wisconsin) in History
Adelbert John Beyer, B.A. (University of Wisconsin) in History
Beulah May Bowden, Ph.B. (University of Wisconsin) in History
*Harry Gilbert Brown, B.A. (Ripon College) in Education
Helen deYoe Buell, B.A. (University of Wisconsin) in Romance Languages
Herbert Theodore Burrow, B.A. (University of Wisconsin) in Economics

†Degree conferred January 21, 1920.
[1]Degree conferred since Commencement, 1920.
[2]Degree conferred January 21, 1920.
[3]Degree conferred March 5, 1920.
[4]Degree conferred April 27, 1920.

*Alita Lois Bussard, B.A. (Lawrence College) in History
Jane H. Butt, B.A. (University of Wisconsin) in Education
*Ambrose Caliver, B.A. (Knoxville College) in Education, Manual Arts
Charles Gordon Carlson, B.A. (University of Wisconsin) in Geology
Gaston Edward Chabaud, B.A. (University of Aix) in French
Ruth Wayland Chase, B.A. (University of Wisconsin) in Zoology
Harold Cowan Cheetham, B.S. (University of Wisconsin) in Chemistry
Keats Synn Chu, B.A. (University of Wisconsin) in Economics
Phil Rittenhouse Clugston, B.A. (Wabash College) in English
Arthur Vincent Cole, B.A. (University of Wisconsin) in Medicine
*Nettie May Cook, B.A. (University of Wisconsin) in Botany
Mary Mabel Cowden, B.S. (Monmouth College) in History
Ada Elizabeth Crandall, B.A. (Milton College) in French
Cecile Irma Crandall, B.A. (Milton College) in English
Catherine Nye Davies, B.A. (Carroll College) in English
Jean Scobie Davis, B.A. (Bryn Mawr College) in Economics
*Melvin Grant Davis, B.A. (Indiana University) in Political Science
Mildred Claire De Courcey, B.A. (Washington University) in English
*Florence Isabelle Deakin, B.A. (University of Wisconsin) in Romance Languages.
Emilie Henriette Dejean, License es lettres (University of Bordeaux) in English
John Metschl, B.A. (University of Wisconsin) in Chemistry
Marguerite Anna Meyer, B.A. (Hope College) in French
Hannah Arlotta Mix, Ph.B. (Alfred University) in German
Erwin Theodor Mohme, B.A. (University of Wisconsin) in German
*Edward Ward Morehouse, B.A. (Amherst College) in Economics
Tetsusaburo Murata, B.Com. (Waseda University) in Economics
John William Nash, B.A. (University of Wisconsin) in History
Harold Nebel, B.A. (University of Wisconsin) in Physiology
Marion Catharine Neprud, B.A. (University of Wisconsin) in Political Science
Shigeyoshi Obata, B.A. (University of Wisconsin) in English
*Judson Quincy Owen, B.A. (Illinois Wesleyan University) in English
Laura Leone Oyster, B.A. (Ripon College) in Chemistry
Helen Charlotte Pence, B.A. (University of Wisconsin) in Latin
Lillian Alida Perkins, B.A. (University of Wisconsin) in History
Harry A. Pollack, B.A. (University of Wisconsin) in Commerce
Marion Louise Powers, B.A. (University of Michigan) in History
Fannie Putcamp, B.E. (Southern Illinois College) in Latin
Harold William Rickett B.A. (University of Wisconsin) in Botany
Robert Edgar Riegel, B.A. (Carroll College) in History
Edward Howell Roberts, B.A. (University of Wisconsin) in Semitic Languages
*Eulogio Balan Rodriguez, B.A. (University of Wisconsin) in Political Science
Marius Rolland, Ph.B. (University of Wisconsin) in Economics
*Clarence Arthur Rubado, B.A. (University of Wisconsin) in Education
Alex F. Samuels, B.A. (University of Wisconsin) in Physics
Allan Frederic Saunders, B.A. (Amherst College) in Political Science
Roland T. Schaefer, B.A. (Baldwin-Wallace College) in Education
*Clara Beth Schneider, B.L. (Western Reserve University) in German
*Caroline Pauline Schoch, Ph.B. (University of Chicago) in German

*Degree conferred since Commencement, 1920.

*James L. Sellers, B.A. (Kansas University) in American History
Malcolm Pitman Sharp, B.A. (Amherst College) in Economics
Margaret Sophia Sherman, B.A. (Lawrence College) in Public Speaking
Amos M. Showalter, B.A. (Goshen College) in Botany
Helen Harriet Skinner, B.A. (University of Wisconsin) in Chemistry
*William Thomas Doherty, B.L. (Missouri State Teachers College) in History
Alfred Karl Dolch, B.A. (Western Reserve University) in German
Herbert Benjamin Dorau, B.A. (Lawrence College) in Economics
Everett Carlyle Edwards, B.A. (University of Wisconsin) in Geology
*Herman Styles Ficke, Ph.B. (Lafayette College) in English
Edwin George Flemming, B.A. (Cornell University) in Public Speaking
George Francis Forster, B.A. (Emory College) Zoology
Delbert Ransom French, B.S. (Reed College) in Agricultural Economics
Thomas Milledge Galphin, Jr., B.A. (Mercer College) in English
Glenn Lion Gardiner, B.A. (University of Wisconsin) in Economics
Alva Edward Garey, B.A. (Milton College) in Political Science
Ruth Emma Garwood, B.A. (University of Wisconsin) in Romance Languages
*Marshall Conant Graff, B.A. (University of Wisconsin) in History
Dorothy Nichols Greene, B.A. (University of Wisconsin) in English
Nina Harbour, B.A. (Leland Stanford University) in Economics
Frank F. Hargrave, S.T.B. (Boston University) in Agricultural Economics
Eleanor Mary Hatton, B.A. (Milwaukee Downer College) in History
*Pauline Reichardt Hoeltzel, B.A. (University of Arkansas) in German
*Henry Bert Holmes, B.A. (Indiana University) in Spanish
Chia Yung Hsieh, B.S. (Peking College) in Geology
Ruth Bingham Hurlbut, B.A. (University of Wisconsin) in French
*Mary Hamilton Hutchison, B.A. (Toledo University) in English
Dagmar Christine Jensen, B.A. (University of Wisconsin) in English
Hiram Leonard Jome, B.A. (St. Olaf College) in Economics
Albert Herbert Koschmann, B.A. (University of Wisconsin) in Geology
*Gertrude Krausnick, B.A. (Washington University, St. Louis) in History
Margaret Emma Landwehr, B.A. (University of Wisconsin) in German
Beulah Etta Lenfest, B.A. (Hamline University) in History
Fengpao P. Ling, B.A. (Soochow University) in Economics
Duane McCracken, B.A. (Pennsylvania College) in Economics
*Nina Smith Malone, B.A. (University of Wisconsin) in Spanish
Ella May Martin, B.A. (Lawrence College) in Botany
Ralph Bryant Mason, B.A. (William and Vashti College) in Chemistry
*James Albert Melrose, B.A. (Hamilton College) in Economics
Louis Byrne Slichter, B.A. (University of Wisconsin) in Physics
Janet Elizabeth Sloan, B.S. (South Dakota State College) in English
Paul Samuel Smith, B.A. (Earlham College) in History
*Stephen DeWitt Stephens, B.A. (University of Wisconsin) in English
Joseph Clark Taylor, B.A. (University of Wisconsin) in Political Science
Eleazer V. Tetreau, B.A. (Hamline University) in Agricultural Economics
*Martin John Thue, B.A. (University of Wisconsin) in History
*Laura Towne, B.A. (University of Wisconsin) in Spanish
Henriette Marguerite Treille, B.A. (Ripon College) in French
*Julia Isabella Turnbull, B.S. (Vanderbilt University) in French
David Weiss, B.A. (University of Wisconsin) in Journalism
*Robert William West, B.A. (Milton College) in Public Speaking

*Degree conferred since Commencement, 1920.

Master of Science

*Felipe Fiongson Adriano, B.Agr. (University of the Philippines) in Chemistry
*Hugo William Albertz, B.S. (Univerity of Wisconsin) in Agronomy
*Clifford Norman Anderson, Ph.B. (University of Wisconsin) in Physics
Harry Randall Beard, B.A. (University of Colorado) in Chemistry
Marion Florilla Breck, B.S. (University of Wisconsin) in Home Economics
Frederick Lincoln Browne, B.Chem. (Cornell University) in Chemistry
Dillman Samuel Bullock, M.A. (Michigan Agricultural College) in Animal Husbandry
*Donald Elmer Cable, B.S. (Armour Institute) in Chemistry
Lloyd Leonard Call, B.S. (University of Wisconsin) in Physics
*Margery Claire Carlson, B.S. (Northwestern University) in Botany
*Andrew Beattie Carothers, B.S. (Mississippi Agricultural and Mechanic College) in Agricultural Economics
Ming Heng Chow, B.S. (University of Wisconsin) in Chemistry
Helen Petrovna Churchill, B.S. (University of Wisconsin) in Agricultural Chemistry
Brooks, Lawson Conley, B.S. (University of Wisconsin) in Physics
Harry Herschell Coxen, B.S. (Kansas State Agricultural College) in Manual Arts
James Reason Coxon, B.S. (Kansas State Agricultural College) in Manual Arts
Ned Royce Ellis, B.S. (University of Wisconsin) in Agricultural Chemistry
Eric Englund, B.A. (University of Oregon) in Agricultural Economics
*Catharine Custis Fletcher, B.S. (Women's College of Delaware) in Chemistry
Arthur Crawford Foster, B.S. (North Carolina State College) in Plant Pathology
John Gray, B.A. (Leland Stanford University) in Plant Pathology
Reba Cordelia Haner, B.S. (University of Wisconsin) in Agricultural Bacteriology
Donald Leith Hay, B.S. (University of Wisconsin) in Physics
Philip John Hickey, B.S. (University of Wisconsin) in Chemistry
Henry Walter Hollard, B.S. (University of Illinois) in Dairy Husbandry
Ivar Jorstad, Graduate, Kristiania University, in Plant Pathology
Hugh Baxter Killough, B.S. (Texas Agricultural and Mechanics College) in Agricultural Economics
Benjamin Koehler, B.A. (Lawrence College) in Plant Pathology
Chauncey Depew Leake, Litt.B. (Princeton University) in Physiology
Charles Earl Limp, B.A. (Indiana State Normal College) in Manual Arts
Milton Benjamin Lindberg, B.S. (Columbia University) in Economics
Harold Hall McKinley, B.S. (Michigan Agricultural College) in Plant Pathology
*Harold Hall McKinney, B.S. (University of Wisconsin) in Plant Pathology
Gladys Louise Meloche, B.S. (University of Wisconsin) in Home Economics
*Joe Haynes Miller, B.A. (Georgetown College, Ky.) in Agricultural Education
Otojiro Nagaoka, E.E. (Tokio University) in Chemical Technology
Julia Pratt Outhouse, B.S. (University of Wisconsin) in Home Economics

*Degree conferred since Commencement, 1920.

Milton Harrison Scott, B.S (Iowa State College) in Animal Husbandry
Edith Katharine Seymour, B.A (Miami University) in Plant Pathology
Myrtle Annette Shaw, B.S. (Beloit College) in Agricultural Bacteriology
Sherwood William Shear, B.S. (University of Wisconsin) in Agricultural Economics
Edna Dixon Sherman, B.S. (North Dakota Agricultural College) in Home Economics
Everett Clifton Sherwood, B.S. (Oklahoma Agricultural and Mechanical College) in Plant Pathology
Charles Findley Sloan, B.S. (Kansas University) in Hydraulics
Govan N. Stroman, B.S. (Texas Agricultural and Mechanical College) in Agronomy
James Sykora, B.S. (University of Wisconsin) in Soils
Nicanor G. Teodoro y Gregorio, B.S. (University of Wisconsin) in Plant Pathology
Erwin Milton Tiffany, B.S. (Kansas State Agricultural College) in Agricultural Education
George Galloway Town, B.S. (University of Wisconsin) in Chemistry
*Vernon Edward Van Patter, M.S. (South Dakota Wesleyan University) in Economics
Isabel Fitch Walker, B.S. (Columbia University) in Home Economics
George Frederick Weber, B.S. (South Dakota University) in Plant Pathology
George Simon Wehrwein, B.S. (University of Wisconsin) in Agricultural Economics
Colin Gilchrist Welles, B.S. (Cornell University) in Plant Pathology
Virgil Roe Wertz, B.S. (University of Wisconsin) in Economics
Hilda Frieda Wiese, B.S. (University of Wisconsin) in Chemistry
*Milburn Lincoln Wilson, B.S. (Iowa State College) in Agricultural Economics
Clarence Reuben Wise, B.A. (Cornell College) in Chemistry

Master of Philosophy

Henry Francis James, Ph.B. (University of Wisconsin) in Geology
Fred George Mueller, Ph.B. (University of Wisconsin) in Psychology
*George Matthew Naidl, Ph.B. (University of Wisconsin) in Education
*Rolla E. Ponsler, B.A. (Indiana State Normal School) in Education
*William Homer Veatch, Ph.B. (University of Chicago) in Public Speaking

Electrical Engineer

Homer Jameson Ludden, B.S. (University of Wisconsin)
The effects of stray fields on the accuracy of direct current watt-hour meters.
Leo James Peters, B.S. (University of Wisconsin)
Resistance neutralization; an application of thermionic amplifier circuits

Chemical Engineer

Erwin Charles Brenner, B.S. (University of Wisconsin)
Removal of sulphur compounds from municipal gas
*Walter Allos Koehler, B.S. (University of Wisconsin)
Ralph Edwin Ramsay, B.S. (University of Wisconsin)
A study of the performance of a ten gallon rectifying still

*Degree conferred since Commencement, 1920.

Doctor of Philosophy

William E. Alderman, M.A. (Hiram College) in English and Romance Languages

The influence of Anthony Ashley Cooper, third Earl of Shaftesbury, on the English literature of the eighteenth century

*Dimitar Atanasoff, M.S. (University of Wisconsin) in Plant Pathology and Botany

Susarium blight (scab) of wheat and other cereals

*Edgar Alan Baird, M.A. (University of Wisconsin) in Botany and Plant Pathology

The structure and behavior of the nucleus in the life history of Phycomyces Nitens and Rhizopus Nigricans

Frederick Charles Bauer, M.S. (University of Illinois) in Soils and Chemistry

*Degree conferred since Commencement, 1920.

Part I. The effect of leaching on the availability of rock Phosphate to corn

Part II. The relation of organic matter and the feeding power of plants to the utilization of rock phosphate

George Holman Bishop, B.A. (University of Michigan) in Zoology and Genetics

Cell metabolism in the fat body of the larval honey bee, Apis Mellifica

Van Lorens Bohnson, M.S. (University of Wisconsin) in Chemistry

A contribution to the study of the catalytic decomposition of hydrogen peroxide

Walther Immanuel Brandt, M.A. (University of Wisconsin) in History and Political Science

Steel and the new navy, 1882–1895

*Harold William Browning, M.S. (University of Wisconsin) in Botany, Chemistry and Plant Pathology

The effect of certain mineral salts upon the nutrition of Aspergillus Niger

*Harold Rozelle Bruce, M.A. (University of Wisconsin) in Political Science, Economics and History

The political activities of organized labor in the United States and Great Britain; a comparison

Walter Reid Bryan, B.A. (University of Wisconsin) in Latin and Greek

Conventions of the classical Greek Drama

Edward Eastman Clayton, M.S. (University of Chicago) in Plant Pathology, Botany and Agricultural Bacteriology

The influence of certain environmental factors on the development of the fusarium wilt of tomatoes

*Clinton B. Clevenger, M.S. (University of Wisconsin) in Soils, Chemistry and Bacteriology

Hydrogen-ion concentration of plant juices

I. The accurate determination of the hydrogen-ion concentration of plant juices by means of the hydrogen electrode.

II. Factors affecting the acidity of hydrogen-ion concentration of plant juices

Archie Evans Cole, B.A. (Ohio Wesleyan University) in Zoology and Physiology

Oxygen supply of certain animals living in water containing no dissolved oxygen

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*Degree conferred since Commencement, 1920.

Alonzo Bettis Cox, M.A. (University of Texas) in Economics and Agricultural Economics
Social and economic analysis of the Milltown agricultural community, Polk County, Wisconsin
Harold Marion Crothers, E.E. (University of Wisconsin) in Electrical Engineering and Mathematics
The selective properties of coupled radio circuits
Bert Cunningham, M.A. (Trinity College) in Zoology and Botany
Some studies in the natural history and early development of chrysemys cinerea
*William McGlashan Duffus, M.A. (University of Wisconsin) in Economics and Political Science
Health and accident insurance as provided in Illinois by insurance companies and fraternal orders
*Henry Ernst Erdman, B.S. (South Dakota State College) in Agricultural Economics and Economics
The marketing of whole milk
*Charles N. Frey, M.S. (University of Wisconsin) in Botany, Plant Pathology and Chemistry
The cytology and physiology of Venturia Inaequalis (Cooke) Winter
Thornton Carle Fry, M.A. (University of Wisconsin) in Mathematics, Mathematical Physics and Astronomy
The use of divergent integrals in the solution of differential equations
*William Edward Garnett, M.A. (Peabody Teachers College) in Sociology Agricultural Education and Agricultural Economics
Economic and social survey of Albemarle County, Virginia
*William Merriott Gibbs, M.S. (University of Wisconsin) in Agricultural Bacteriology and Soils
The isolation and study of nitrifying bacteria
*Donald Monroe Gilbert, M.A. (West Virginia University) in Spanish and French
The personal accusative in the works of Blasco Ibanez
*Emil Frederic Hacker, M.A. (University of Wisconsin) in French and Spanish
The infinitive in French from 1300 to 1450
*Augustus Washington Hayes, M.S. (University of Wisconsin) in Agricultural Economics, Sociology and Economics
Rural Organization
*Joyce Oramel Hertzler, M.A. (University of Wisconsin) in Sociology and Economics
Social Utopias and Utopianism
*Clarence Leroy Holmes, B.A. (University of Michigan) in Agricultural Economics and Economics
Horses and mules in American agriculture, with special reference to their function in agricultural production
*Tsunao Inomato, B.A. (Waseda University) in Agricultural Economics and Philosophy
An analysis of some typical theories of proper intensity of culture
*†William Henry Kiekhofer, B.A. (Northwestern College) in Economics, Sociology and Political Science
The nature and formation of classes together with the class changes attributable to modern industrialism

*Degree conferred since commencement, 1920.
†Degree conferred as of the class of 1913.

Leonard Bayliss Krueger, M.A. (University of Wisconsin) in Economics, Agricultural Economics and Geography
The development of state banking in Wisconsin from 1863–1903
Clifford Shattuck Leonard, M.S. (Yale University) in Chemistry and Pharmacology
Some compounds of Piperidine with Halides
*William Adams Lippincott, M.S. (University of Wisconsin) in Genetics, Zoology and Poultry Husbandry
I. The case of the blue Andalusian
II. Further data on the inheritance of blue in poultry
Maud Hamilton Mendenhall, B.A. (Cornell University) in History, Latin and Greek
Mineral resources of the Roman Empire, sources of information and places of deposit
*Sidney Lincoln Miller, M.A. (University of Wisconsin) in Economics and Sociology
The condition of the railways of the United States at the time of our entry into the European war
*Morton Earl Mix, M.A. (University of Wisconsin) in German and English Literature
German Literature in English magazines, 1750–1835
Bert Lorin Richards, M.S. (Utah Agricultural College) in Plant Pathology, Botany, and Bacteriology
Soil temperature as a factor in determining the pathogenicity of Corticium Vagum, with special reference to the potato
George J. Ritter, Ph.M. (University of Wisconsin) in Chemistry and Agricultural Bacteriology
The catalytic hydrogenation of cotton seed oil
*Leslie Truesdale Ross, M.A. (University of Wisconsin) in French and Spanish
A general treatment of Rostand the dramatist
Selma Langenhan Schubring, M.S. (University of Wisconsin) in Geography and Romance Languages
A statistical study of lead and zinc mining in Wisconsin
George Robert Shaw, M.A. (Washington and Lee University) in Chemistry and Chemical Technology
The chemistry of platinum at high temperatures and pressures
Daniel Christopher Leander Sherk, M.A. (University of Wisconsin) in Pharmacy, Chemistry and Physics
Thymol and carvacrol problems in connection with the monardas
*Lucius Rogers Shero, M.A. (University of Wisconsin) in Greek and Latin
Studies in the conventional element in Roman satire
Walter H. Snell, M.A. (Brown University) in Plant Pathology and Botany
Studies on certain fungi of economic importance in the decay of building timbers, with special reference to the factors which favor their development and dissemination
Wallace Headen Strowd, M.S. (University of Wisconsin) in Agricultural Chemistry and Agricultural Bacteriology
Studies in the nitrogen metabolism of the soy bean
Graham Henry Stuart, M.A. (University of Wisconsin) in Political Science, History and French
French foreign policy, 1898–1914

*Degree conferred since Commencement, 1920.

Barnett Sure, M.S. (University of Wisconsin) in Agricultural Chemistry and Physiology
Amino acids in nutrition
William Burley Tisdale, M.S. (University of Wisconsin) in Plant Pathology, Genetics and Botany
The relation of soil temperature and soil moisture to the occurrence of yellows in cabbage seedlings
Margaret Seymour Titchener, B.A. (Wells College) in Latin and Greek
Guardianship of women in Egypt during the Ptolemaic and Roman eras
*Eben Henry Toole, M.A. (University of Wisconsin) in Botany, Agricultural Chemistry and Plant Pathology
The transformations and course of development of germinating maize
Clyde Melvin Woodworth, M.S. (University of Wisconsin) in Genetics, Botany and Zoology
Inheritance studies in soy beans. I, Cotyledon, seedcoat, hilum, and pubescence colors

HONORARY DEGREES

Doctor of Laws

John Barber Parkinson, Vice-President of the University of Wisconsin and Professor of Constitutional and International Law, *Emeritus*
Magnus Swenson, Chairman of the State Council of Defense and Federal Food Administrator for Wisconsin during the War; Chief of Mission to Northern Europe for American Relief Administration
Alonzo Englebert Taylor, Rush Professor of Physiological Chemistry in the University of Pennsylvania

Doctor of Sciences

Joel Stebbins, Professor of Astronomy in the University of Illinois
†Thomas Chrowder Chamberlain, Professor of Geology, University of Chicago.

GRADUATION HONORS

Honors for Theses

College of Letters and Science

Fritz Emil Bischoff, in Chemistry
The halogenation of D. N. T.
Mary Augusta Bonzelet, in Economics
A study of some instructional costs in Wisconsin high schools 1918–1919
Leslie Jennings Bosworth, in Economics
Labor in the steel industry
Dorothy Bradbury, in Botany
The cytology of synchytrium pulvereum
Linton Alden Cox, Jr., in Political Science
Italian imperial expansion since 1896

*Degree conferred since Commencement, 1920.
†Degree conferred April 23, 1920.

Herman Julius Deutsch, in History
Carl Schurz and the liberal republicans
Clyde Miser Ferrell, in History
The origin and growth of the imperial federation movement in England prior to 1887
Isabelle Laura Hill, in Sociology
Americanization work in Milwaukee
Clara Viola Hoover, in Botany
Cytology of empusa muscae
Lawrence Stevens Knappen, in Commerce
The wrecking and rebuilding of the Rock Island
John Purdy Owens, in Commerce
Government construction and operation of railroads in Alaska
Lowell Joseph Ragatz, in History
Egypt in Anglo-French diplomacy, 1875–1904
Gladys Evelyn Riggs, in Classics
The policy of Augustus as reflected by certain court poets

College of Agriculture

John Arlington Anderson, in Agricultural Chemistry
Chemical composition of wood as related to blossom differentiation of the apple and plum
Cornelius Frederick Arzberger, Agricultural Chemistry and Bacteriology
Certain factors influencing the production of acetone by bacillus acetoethylicum
Charles Benrose Drewry, Animal Husbandry
Feeding hydrolized sawdust to dairy cows
Elizabeth Kundert, Home Economics
The alkaline reserve of the blood as influenced by diet
Samuel Lepkovsky, Agricultural Chemistry
Nitrogen metabolism of sugar beet leaves
William Isaac Nightingale, Agricultural Bacteriology
Effect of the by-products of growth on the assimilation of nitrogen by the legume bacteria

STUDENTS

GRADUATES

Fellows and Scholars

[1]First semester.
[2]Second semester.

Andersen, Aksel Pauli — *N. Odalen, Norway*
M.S., Massachusetts Institute of Technology
Scholar in Civil Engineering

Bausch, Mary Martha — *Everett, Pa.*
M.A., University of Pennsylvania
Charlotte Trostel Fellow in German

[2]Beye, Elizabeth — *Oak Park, Ill.*
B.S., Lewis Institute
Fellow in Home Economics

Bissell, Lillian — *Madison*
B.A., University of Wisconsin
Scholar in Romance Languages

Bracher, Rose — *Salisbury, England*
M.S., Bristol, England
Honorary Fellow in Plant Pathology

[1]Braun, Ann Gertrude — *Wahpeton, N. Dak.*
B.S., University of Wisconsin
Fellow in Home Economics

Brown, Reuben Samuel Tilden — *Madison*
B.A., University of Wisconsin
Scholar in American History

Browne, Frederick Lincoln — *Madison*
M.S., University of Wisconsin
Du Pont Fellow in Chemistry

Bryan, Ollie Clifton — *Elba, Ala.*
B.S., Alabama Polytechnic Institute
Fellow in Soils and Agricultural Bacteriology

[1]Calkins, Elsie Leona — *Madison*
B.A., Reed College
Scholar in Home Economics

Carlson, Corinne Winnifred — *Bemidji, Minn.*
B.A., Hamline University
Scholar in European History

[2]Conney, Leo Younker — *Ripon*
B.A., Ripon College
Hollister Fellow in Pharmacy

Conover, Frederic LeRoy — *Madison*
B.A., University of Wisconsin
Fellow in Chemistry

Conover, Julian Darst — *Madison*
B.A., University of Wisconsin
Fellow in Mining Engineering

Crew, Alice Hargrave — *Evanston, Ill.*
B.A., Rockford College
Scholar in Chemistry

Davis, Jean Scobie — *Princeton, N. J.*
M.A., University of Wisconsin
Fellow in Economics

Dixon, Jennie Grace — *La Crosse*
B.A., Lawrence College
Lawrence Scholar (History)

Dolch, Alfred Karl — *Cleveland, Ohio*
M.A., University of Wisconsin
Alfred Uihlein Fellow in German

Duncan, Annie Lee — *Oxford, Miss.*
B.A., University of Mississippi
Fellow in Zoology

Eaton, Howard Ormsby — *Madison*
B.A., University of Wisconsin
Fellow in Philosophy

Eickelberg, Myrtle Mary — *Milwaukee*
B.A., Milwaukee Downer College
Milwaukee Downer Scholar (Economics)

Eke, Paul Axel Clarence — *Bruce*
B.S., University of Wisconsin
Scholar in Economics

Englund, Eric — *Corvallis, Ore.*
M.S., University of Wisconsin
Fellow in Agricultural Economics

Farnsworth, Harry Edward — *Ripon*
B.A., Ripon College
Fellow in Physics

Haley, Joseph Boyd — *Elberton, Ga.*
M.A., University of Wisconsin
Charles Kendall Adams Fellow in Greek

Hawkins, Joseph Elmer — *Waco, Texas*
B.A., Baylor University
Fred Vogel, Jr., Fellow in German

Hawthorne, Horace Boies — *Castana, Iowa*
B.S., Iowa State College
Fellow in Economics

[2]Haynes, Edith — *Emporia, Kans.*
B.A., College of Emporia, Kansas
Scholar in Agricultural Bacteriology

Hendricks, Doyle — *Easley, S. C.*
B.S., Clemson College, S. C.
Fellow in Economic Entomology

Hixon, Ralph Malcolm — *Crown Point, Ind.*
B.S., Iowa State College
Fritzsche Brothers Fellow in Pharmacy

Holmes, John Edward — *Milton*
B.A., Milton College
Milton College Scholar (English)

Hussissian, Khoren Leon — *Madison*
B.S., University of Wisconsin
Scholar in Mining Engineering

Hutton, Mary Kinlock — *Madison*
B.S., University of Wisconsin
Omicron Nu Scholar (Home Economics)

Jamison, Albert Woodward — *Urbana, Ill.*
M.S., Princeton University
Honorary Fellow in Agricultural Economics

Johannesen, Rolf Thorleif Horn — *Delavan*
B.A., University of Wisconsin
Fellow in European History

Johnson, Dorothy Bates — *Hamburg, N. Y.*
B.A., Vassar College
Fellow in Romance Languages

Jull, Morley Allan — *Quebec, Canada*
M.S., McGill University
Honorary Fellow in Genetics

Kitchel, Anna Theresa — *Milwaukee*
M.A., University of Wisconsin
Mary M. Adams Fellow in English

Law, Joseph Thaddeus — *Springfield, Mo.*
B.A., Drury College
Scholar in Political Science

Lemm-Marugg, Carl — *Madison*
B.A., University of Wisconsin
Charles Kendall Adams Fellow in Modern History

Logan, John Watson — *Elberton, Ga.*
B.A., Emory College
Fellow in Greek

McFarland, Frank Theodore — *Lexington Ky.*
B.S., University of Michigan
Honorary Fellow in Plant Pathology

McIntyre, James Francis — *Columbus, Ohio*
B.A., St. Charles Seminary
Scholar in Economics

Matsubara, Atsushi — *Kanagawa, Japan*
Graduate, Imperial University of Kyoto
Honorary Fellow in Chemistry

Mohme, Erwin Theodore — *Elkhart Lake*
M.A., University of Wisconsin
Gustav Pabst Fellow in German

Monteith, John, Jr. — *Chatham, N. J.*
B.S., Rutgers College
Horlick Scholar in Plant Pathology

Mueschke, Paul — *Westfield, Tex.*
M.A., University of Texas
Henry Gund Scholar in German

Murphy, Ray — *Madison*
M.S., University of Wisconsin
Fellow in Chemistry

Nash, John William — *Juneau*
M.A., University of Wisconsin
Charles Kendall Adams Fellow in Modern European History

Nelson, Delmar Wood — *Peshtigo*
B.S., University of Wisconsin
Fellow in Mechanical Engineering

[2]Norling, Sven Albert — *Soderbaum, Sweden*
M.S., University of Upsala
Scholar in Agricultural Engineering

Parker, Frank Wilson — *Madisonville, Ky.*
B.S., Alabama Polytechnic Institute
National Fertilizer Association Fellow (Soils)

Puehler, Lucy Mary — *Sturgeon Bay*
B.A., St. Clara College
St. Clara College Scholar (French)

Ray, Ward L. — *Madison*
M.A., University of Wisconsin
Honorary Fellow in Chemistry

Reed, Ellery Francis — *Fulton, Mo.*
M.A., Clark University
Fellow in Sociology

Reid, Mary Elizabeth — *Oconomowoc*
B.A., University of Wisconsin
Fellow in Botany

Riggs, Gladys Evelyn — *Cando, N. Dak.*
B.A., University of Wisconsin
Fellow in Latin

Riker, Albert Joyce — *Columbus, Ohio*
M.A., University of Cincinnati
Fellow in Plant Pathology

Robinson, George Clarence — *Oconomowoc*
M.A., Harvard University
Fellow in Political Science

[2]Schafheitlin, Anna — *Cawning, Nova Scotia*
M.A., McGill University
Albert F. Gallun Fellow in German

Schrader, Albert Lee — *South Kaukauna*
B.S., University of Wisconsin
Fellow in Horticulture

[1]Schroeder, Meta Louise — *Wausau*
B.S., University of Wisconsin
Scholar in Agricultural Bacteriology

Schuller, Wera Charlotte — *Oberlin, Ohio*
B.A., Oberlin College
Charles P. Pfister Fellow in German

Sellers, James Lee — *Madison*
M.A., University of Wisconsin
Fellow in American History

Shear, Sherwood William — *Rosslyn, Va.*
M.S., University of Wisconsin
Scholar in Agricultural Economics

Simpson, Marjorie Du Val — *Chicago, Ill.*
B.A., University of Wisconsin
Scholar in Classics

Stone, Hosmer Ward — *Kalamazoo, Mich.*
M.A., University of Wisconsin
Fellow in Chemistry

Stover, Wilmer Garfield — *Columbus, Ohio*
M.A., Miami University
Honorary Fellow in Plant Pathology

Streets, Rubert B. — *Helena, Mont.*
B.S., Montana State College
Scholar in Plant Pathology

[2] Stroman, Govan, N. — *Walde, Texas*
M.S., University of Wisconsin
Scholar in Genetics

Town, George Galloway — *Madison*
M.S., University of Wisconsin
Scholar in Chemistry

Vincent, Vera Elizabeth — *Waukesha*
B.A., Carroll College
Carroll College Scholar (Bacteriology)

Wadepuhl, Walter — *New York, N. Y.*
M.A., Columbia University
Albert Trostel Fellow in German

Waehler, Leonard A. — *Lomira*
B.A., Ripon College
Ripon College Scholar (Economics)

Walker, Louisa Viola s e — *Madison*
M.A., Columbia University
Fellow in School of Education (Latin)

Walker, Mary Josephine — *Indianapolis, Ind.*
B.A., Indiana University
Scholar in Romance Languages

Whelan, Julia Priscilla — *Mondovi*
B.S., University of Wisconsin
Fritzsche Brothers Fellow in Pharmacy

Whitbeck, Florence — *Madison*
B.A., University of Wisconsin
Fellow in Geology

Williams, Robert Edward s e — *Madison, Ind.*
B.A., De Pauw University
Fellow in School of Education (Speech)

Winchell, Vira Frances — *Madison*
B.A., University of Wisconsin
Scholar in Chemistry

[1] Youngblood, Bonney — *College Station, Tex.*
M.S., Agricultural and Mechanics College of Texas
Honorary Fellow in Agricultural Economics

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Other Graduates

Acton, Hul-Cee Marcus — *Glasgow, Ky.*
M.A., University of Wisconsin — French

Aiyar, Swaminatha Subrahmanya — *Bangalore, S. India*
B.A., University of Madras, India — Chemistry of Forest Products

Albertz, Hugo William — *Watertown*
M.S., University of Wisconsin — Agronomy

Albertz, Max Henry	
B.A., University of Wisconsin	*Watertown*
Altmeyer, Arthur Joseph	Economics
M.A., University of Wisconsin	*Madison*
Andersen, Mary	Economics
M.A., Columbia University	*Hudson*
Anderson, Edward	
B.S., University of Wisconsin	*Racine*
Anderson, Harry Gerdhart	Mechanical Engineering
B.S., University of Wisconsin	*Washburn*
Anderson, John Arlington	Agricultural Economics
B.S., University of Wisconsin	*Racine*
Anderson, Lewis Orvin	Agricultural Chemistry
M.A., University of Wisconsin	*Barneveld*
Andressohn, John Carl	Philosophy
M.A., University of Wisconsin	*Milwaukee*
Andrews, Andrew Irving	History
B.S., University of Wisconsin	*Oshkosh*
Andrews, Joy Ella	Chemistry
B.A., University of Wisconsin	*Portage*
Atcherson, Mary Meadows	Zoology
B.A., Lawrence College	*Madison*
Babcock, Rodney Whittemore	History
M.A., University of Wisconsin	*Madison*
Baber, Ray E.	Mathematics
M.A., University of Wisconsin	*Concordia, Kans.*
Bacon, Lee Fairchild s e	Economcs
B.A., University of Wisconsin	*Madison*
Bahadur, Mohindra	History
B.A., University of Punjab, India	*Deccan, India*
Bailey, Ernest Hayden	Genetics
B.A., University of Wisconsin	*Madison*
Baker, Oliver Edwin	Soils
M.S., Columbia University	*Chevy Chase, Md.*
Barker, Augustus Lawrence	Economics
M.S., University of Alabama	*Ripon*
Baum, Paul Burdette s e	Chemistry
B.A., Aurora College	*Palmyra, Pa*
Bemis, Bessie Ethel	Education
B.S., Michigan Agricultural College	*East Lansing, Mich.*
Bemis, George Gordon	Home Economics
B.A., University of Wisconsin	*Antigo*
Benton, Alva Hartley	Anatomy
M.S., Pennsylvania State College	*Winnipeg, Canada*
Bethke, Roland Martiz	Agricultural Economics
B.S., University of Wisconsin	*Elkhart Lake*
Beyer, Adelbert John	Agricultural Chemistry
M.A., University of Wisconsin	*Milwaukee*
Bird, John Wendell	History
B.A., Albion College	*Saginaw, Mich.*
Bitterman, Ruth Genevieve	Political Science
B.A., University of Wisconsin	*Madison*
Blake, Helen Hull	Plant Pathology
B.A., University of Wisconsin	*Madison*
	Romance Languages

Blanchard, William Oscar		*Madison*
Ph.M., University of Wisconsin	Geography	
Blanco, Galo Wenceslao		*Madison*
M.S., University of Michigan	Chemistry	
Blough, Carman George		*Fond du Lac*
B.A., Manchester College	Economics	
Bodensieck, Anne Marie		*Charles City, Iowa*
B.A., State University of Iowa	Romance Languages	
Boggs, Newton		*Viroqua*
Ph.B., Ripon College	Economic Entomology	
Bohstedt, Gustav		*Madison*
M.S., University of Wisconsin	Amimal Husbandry	
Bonzelet, Mary Augusta		*Madison*
B.A., University of Wisconsin	Economics	
Bornman, Charles John		*London*
B.D., Moravian Theological Seminary	Agricultural Economics	
Botts, Elbert D.		*Lancaster, Mo.*
B.A., Albany College	Chemistry	
Bowstead, John Edleston		*Milwaukee*
B.S., University of Wisconsin	Animal Husbandry	
Bradbury, Dorothy		*Topeka, Kans.*
B.A., University of Wisconsin	Botany	
Bradley, Robert Foster, Jr.		*Madison*
M.A., University of South Carolina	French	
Brandenburg, Margaret J.		*Oxford, Ohio*
B.A., Western College for Women	English	
Brandenburg, Samuel Jacob		*Oxford, Ohio*
Ph.M., University of Chicago	Economics	
Brant, Howard Jonathan		*Youngstown, Ohio*
B.S., University of Wisconsin	Animal Husbandry	
Brashear, Hazel Anderson		*Moline, Ill.*
B.A., University of Wisconsin	French	
Brewer, Aubrey Keith		*Richland Center*
Ph.B., University of Wisconsin	Chemistry	
Briggs, Howard Bovee		*Madison*
B.A., University of Wisconsin	Physics	
Brooks, Dudley Cookingham		*Madison*
B.A., University of Wisconsin	English	
Brooks, John		*Boston, Mass.*
B.A., Harvard University	Romance Languages	
Brosius, Rudolph Frederic		*Madison*
B.A., University of Minnesota	English	
Brunkau, Orvin Richard		*Darlington*
B.S. University of Wisconsin	Agricultural Chemistry	
Buechel, Frederick Anthony		*Madison*
Ph.M., University of Wisconsin	Agricultural Economics	
Burgess, Elisabeth Clark		*Milwaukee*
B.A., Oberlin College	Economics	
Burke, Edith Eleanor		*De Forest*
B.S., University of Wisconsin		
Burke, Mead		*Chicago, Ill.*
B.A., University of Wisconsin		
Burns, Helen Ann s e		*Madison*
B.A., University of Nebraska	Education	

Burrows, Robert Newton	*Nacagdoches, Tex.*
M.A., University of Wisconsin	Agricultural Economics
Calderwood, Howard N. Jr.	*Madison*
B.S., University of Kansas	Chemistry
Carns, Marie Louise m	*Knoxville, Ill.*
B.A., University of Wisconsin	Anatomy
Carothers, Andrew Beattie	*Starkville, Miss.*
M.S., University of Wisconsin	Agricultural Economics
Carroll, Burt Haring	*Madison*
B. Chem., Cornell University	Chemistry
Cederberg, William Emanuel	*Rock Island, Ill.*
M.A., University of Wisconsin	Mathematics
Cevallos, Felipe Olagner	*Albay, P. I.*
B.Agr., University of the Philippines	Animal Husbandry
Chandler, George Anthony	*Madison*
B.S., University of Wisconsin	
Chase, Ruth Wayland	*Madison*
M.A., University of Wisconsin	Zoology
Chen, Ko-Kuei	*Shanghai, China*
B.S., University of Wisconsin	Pharmacy
Chow, Ching Shu	*Peking, China*
Graduate, Peking Technical College	Chemistry
Chu, Ting-oo	*Shanghai, China*
Graduate, Geologic Institute, Peking	Geology
Clark, Stella Payne	*Madison*
B.S., Ohio Wesleyan University	Manual Arts
Clark, Thelma Lee	*Evansville*
B.A., University of Wisconsin	English
Clark, Willis Henry	*Madison*
M.S., University of Michigan	Chemistry
Clugston, Phil. R.	*Madison*
M.A., University of Wisconsin	English
Coke, Joseph	*Guelph, Ontario, Can.*
B.S., Toronto University	Agricultural Economics
Colvin, Hardinick Joyner	*Dubach, La.*
B.S., Louisiana State University	Agricultural Economics
Compton, Miriam Augusta	*Watson, Sask., Canada*
B.A., University of Minnesota	History
Conger, Paul Sidney W.	*Prairie du Sac*
B.S., University of Wisconsin	Zoology
Conklin, Lauretta Bugher	*Winchester, Ind.*
B.A., University of Wisconsin	Romance Languages
Connell, Arthur John m	*Beloit*
B.S., Beloit College	Medicine
Conrad, Agnes m	*Madison*
M.S., University of Wisconsin	Medicine
Corbett, Clifton Sherwin	*Madison*
M.A., University of Wisconsin	Geology
Craighill, Margaret Dorothea m	*Madison*
B.A., University of Wisconsin	Physiology
Dahm, Thomas Matthew	*Madison*
M.A., Northwestern University	Physics
Davis, Harold Thayer	*Colorado Springs, Colo.*
M.A., Harvard University	Mathematics

Davis, Helen Emma — *Madison*
B.A., University of Wisconsin — Geography
Davis, James E. — *Madison*
M.A., University of Wisconsin — Mathematics
Davis, William Harold — *Cedar Falls, Iowa*
M.A., University of Wisconsin — Plant Pathology
Davis, William Lloyd — *Madison*
Ph.B., University of Wisconsin — Economics
Dawley, Robert Worthington — *Rutherford, N. J.*
B.S., University of Illinois — Chemistry
Deakin, Florence Isabelle — *Waukesha*
M.A., University of Wisconsin — French
Dejean, Emilie Henriette — *Bordeaux, France*
M.A., University of Wisconsin — English
Dennison, Jackson Belden — *Madison*
M.A., University of Wisconsin — Economics
Deutsch, Herman Julius — *Milwaukee*
B.A., University of Wisconsin — History
Dickinson, Sheldon James — *Dundee, Ill.*
B.S., University of Wisconsin — Chemistry
Dietrich, Ethel Barbara — *Madison*
M.A., University of Wisconsin — Economics
Dopkins, Elmo Carlyle — *River Falls*
B.A., University of Wisconsin — Political Science
Dorau, Herbert Benjamin — *Fond du Lac*
M.A., University of Wisconsin — Economics
Douglas, James Lee s e — *Madison*
M.A., University of Wisconsin — Education
Duwe, Henry John — *Middleton*
B.A., University of Wisconsin — Economics
Edwards, Davis — *Oberlin, Ohio*
Ph.B., University of Wisconsin — Speech
Edwards, Everett Carlyle — *Ashland*
M.A., University of Wisconsin — Geology
Edwards, Frank Merle — *Fort Atkinson*
B.A., Oberlin College — Horticulture
Eldridge, John A. — *Madison*
B.A., Wesleyan University — Physics
Elvehjem, Oswald Milton — *McFarland*
B.A., Luther College — Economics
Emmons, Richard Conrad — *Montreal, Canada*
M.A., University of British Columbia — Geology
English, Thomas Hopkins — *Gillespie, Ill.*
B.Litt., Princeton University — English
Epstein, Samuel — *Madison*
B.S., University of Wisconsin — Agricultural Chemistry
Evans, Nevada Sutherland — *Eleva*
M.A., University of Minnesota — Plant Pathology
Fahlberg, Ernest David — *Madison*
B.S., University of Wisconsin — Chemical Engineering
Fargo, John Merrill — *Mt. Horeb*
B.S., University of Wisconsin — Animal Husbandry
Fay, Arthur Cecil — *Bethany, Mo.*
B.S., University of Missouri — Agricultural Bacteriology

Fellows, Hurley	*Hoff, Oreg.*
B.S., Oregon Agricultural College	Botany
Feltges, Edna May	*Madison*
Ph.B., University of Chicago	Education
Ferrell, Clyde Miser	*Carrollton, Ohio*
B.A., University of Wisconsin	History
Finlay, Gerald Tonstin	*Auckland, New Zealand*
B.S., Sydney University	Genetics
Fish, Norman Sheffield	*Columbus, Ohio*
B.S., Ohio State University	Agricultural Engineering
Fisher, Ernest McKinley	*Madison*
B.A., Coe College	Economics
Fisk, Emma Luella	*Madison*
B.A., Wellesley College	Botany
Fitch, Eliot Grant	*Milwaukee*
B.A., Yale University	Economics
Fite, Alexander Green	*Long Beach, Calif.*
M.A., Vanderbilt University	Romance Languages
Flint, Edgar Martin	*Madison*
M.A., Columbia University	Agricultural Chemistry
Fluke, Charles Lewis, Jr.	*Madison*
M.S., University of Wisconsin	Economic Entomology
Forseth, Victor Edward	*Martell*
Ph.B., University of Wisconsin	Chemistry
Forster, George Francis	*Macon, Ga.*
M.A., University of Wisconsin	Zoology
Fossum, Peter Even	*Meridean*
B.A., St. Olaf College	Physics
Foster, Arthur Crawford	*Atlanta, Ga.*
M.S., University of Wisconsin	Plant Pathology
Frazier, Mildred Lucile	*Madison*
B.A., University of Wisconsin	Physics
Frazier, William Carroll	*Madison*
B.S., University of Wisconsin	Agricultural Bacteriology
Frey, John Weaver	*Peoria, Ill.*
B.L., University of Chicago	Economic Geography
Frick, Carl Emmit	*Akron, Ohio*
M.A., Ohio State University	Chemistry
Frish, Evelyn	*Madison*
B.A., University of Wisconsin	
Frye, Miriam Louise	*Madison*
B.A., University of Wisconsin	Economics
Fulcher, Paul Milton	*Madison*
M.A., Harvard University	English
Gabbard, Letcher P.	*London, Tenn.*
B.S.A., University of Tennessee	Agricultural Economics
Garwood, Ruth Emma	*Madison*
M.A., University of Wisconsin	Spanish
Gentner, Louis G.	*Madison*
M.S., University of Wisconsin	Economic Entomology
Gerry, Eloise	*Madison*
M.A., Radcliffe College	Botany
Gill, Helen Van Riper	*Mamaroneck, N. Y.*
B.A., Smith College	English

Glass, James LeRoy	*Sun Prairie*
M.A., Northwestern University	Economics
Glotfelty, John Franklin	*Dousman*
B.A., McKendree College	Agricultural Economics
Godkin, James	*Chicopee Falls, Mass.*
M.S., Michigan Agricultural College	Plant Pathology
Godshall, William Vernon	*Madison*
B.S., University of Chicago	Physiological Chemistry
Gonzalez, Manuel	*Manila, P. I.*
C.E., University of St. Tomas	Hydraulics
Goodstone, Samuel Bernard	*Pittsburgh, Pa.*
B.A., Harvard University	Physiology
Gorder, Arne Christian	*La Crosse*
B.S., University of Wisconsin	Pharmacology
Grabow, Rudolph Henry	*Waseca, Minn.*
B.S., University of Wisconsin	Forest Products
Gray, John	*Madison*
M.S., University of Wisconsin	Agricultural Education
Green, Jerome Boley	*New York, N. Y.*
B.S., College of the City of New York	Physics
Greene, Leon Sherman s e	*Madison*
B.S., Alfred University	Education
Greenleaf, Charles Hunt	*Madison*
M.A., University of Wisconsin	Romance Languages
Greenslade, Grover Rawle	*Madison*
M.A., University of Washington	Physics
Groesbeck, Gladys Lillian s e	*Ripon*
B.A., Ripon College	Home Economics
Grundler, Augustus Ferdinand	*Madison*
B.A., University of Freiburg	French
Guernsey, Dorothy	*Chicago, Ill.*
B.A., University of Wisconsin	Journalism
Gyland, Stephen P. m	*Barron*
B.A., St. Olaf College	Medicine
Haake, Alfred Paul	*Madison*
M.A., University of Wisconsin	Economics
Haessler, Dorothy	*Milwaukee*
B.A., University of Wisconsin	French
Hall, Frank Gregory	*Milton*
B.A., Milton College	Zoology
Halverson, Donald L.	*Madison*
M.A., University of Wisconsin	French
Hambleton, James I.	*Madison*
B.S., Ohio State University	Economic Entomology
Hamilton, Bertha	*Madison*
B.A., Indiana University	History
Hamilton, Phyllis Brayton	*Madison*
B.A., University of Wisconsin	Economics
Hankinson, Hazel Irene	*Madison*
B.A., Lawrence College	Soils
Harding, Jack	*Indianapolis, Ind.*
B.A., Wabash College	English

Harker, Myra Susanne — *Madison*
B.A., University of Wisconsin — French
Hawkins, Pliny Haine — *Madison*
M.S., Montana Agricultural College — Botany
Hay, Donald Leith — *Milwaukee*
M.S., University of Wisconsin — Physics
Hayden, Margaret Camilla — *Madison*
M.A., University of Wisconsin — Mathematics
Hayden, Mary Marella — *Madison*
Ph.M., University of Wisconsin — History
Heddle, John Ronald — *Madison*
B.A., University of Wisconsin — Botany
Helie, Fernande Marie-Louise — *Vitre, France*
Licence es Lettres, University of Rennes — French
Heltzel, Virgil Barney — *Wardensville, W. Va.*
M.A., Harvard University — English
Hendrickson, Clarence Irving — *Madison*
B.S., University of Wisconsin — Agricultural Economics
Henningsen, Carleton — *Oakfield*
B.S., University of Wisconsin — Forest Products
Hermann, Edgar Paul s e — *Milwaukee*
B.A., University of Wisconsin — Education
Hertzman, Alrick Brynhjolf — *Ashland*
B.A., Gustavus Adolphus College — Chemistry
Heuer, Josephine — *Madison*
B.A., University of Wisconsin
Hickey, Philip John — *Madison*
M.S., University of Wisconsin — Chemistry
Hoffman, Rudolph Oscar — *Madison*
Ph.C., University of Ghent — French
Holden, Eugene Davenport — *Whitehall, Mich.*
B.S., University of Wisconsin — Agronomy
Hollander, Lee M. — *Madison*
Ph.D., Johns Hopkins University — Geology
Hoppert, Carl Arthur — *Sheboygan*
B.S., University of Wisconsin — Agricultural Chemistry
Horton, Ethel Sue — *Baraboo*
B.A., Beloit College — Botany
Howell, Elsie Margaret s e — *Woodhull, Ill.*
B.A., University of Wisconsin — Education
Hsieh, Chia Yung — *Shanghai, China*
M.A., University of Wisconsin — Geology
Hubert, Ernest Everett — *Madison*
M.S., University of Montana — Plant Pathology
Huff, Sara Buchanan — *Boscobel*
M.A., Columbia University
Hurlbut, Ruth Bingham — *Omro*
M.A., University of Wisconsin — French
Huston, John — *Richland Center*
B.A., University of Wisconsin — Pathology
Ingraham, Mark Hoyt — *Brooklyn, N. Y.*
B.A., Cornell University — Mathematics
Ivey, Everett D. m — *Millston*
B.A., University of Wisconsin — Physiology

James, Marion Elizabeth s e — *Monroe*
B.A., University of Wisconsin — Economics
Jasper, Thomas McLean — *Madison*
M.S., University of Illinois — Mechanics
Jenkins, John Donald — *Portland, Ore.*
B.S., Oregon Agricultural College — Chemistry
Jenkins, Ruth D. — *Madison*
B.L., Smith College — Journalism
Jennings, Sarah Winifred — *Dallas Center, Iowa*
B.A., Grinnell College — Latin
Johann, Helen — *Canton, Mo.*
M.A., University of Missouri — Plant Pathology
Johnson, E. Marion — *Madison*
B.A., University of Kansas — Journalism
Johnson, J. Bernard — *Eau Claire*
B.S., University of Wisconsin — Pharmacy
Johnson, Ruth Margaret — *Colgate, N. Dak.*
Ph.B., University of Wisconsin — History
Johnstone, Mary Cecilia — *Madison*
B.S., University of Wisconsin — Agricultural Journalism
Jome, Hiram Leonard — *Sawyer*
M.A., University of Wisconsin — Economics
Jones, James Hazlitt — *Spring Green*
B.S., University of Wisconsin — Agricultural Chemistry
Jones, Leon Kilby — *Seattle, Wash.*
B.S., Oregon Agricultural College — Plant Pathology
Jones, Sarah Van Hoosen — *Chicago, Ill.*
M.S., University of Wisconsin — Genetics
Jordan, Brady R. — *Madison*
B.Litt., Princeton University — French
Julien, Arlie Paul — *Yeoman, Ind.*
B.A., DePauw University — Chemistry
Karr, Lois — *Indianola, Iowa*
B.A., Simpson College — Physics
Kasak, Maria Louise — *Milwaukee*
M.A., University of Wisconsin — Economics
Keller, Henry Jr. — *Bellefonte, Pa.*
B.S., Pennsylvania State College — Agricultural Economics
Kelly, Katharine Louise — *Palo Alto, Cal.*
B.A., Stanford University — Economics
Kesten, Homer Davies m — *Madison*
B.S., University of Wisconsin — Physiological Chemistry
Khoorshid, Ardeshir — *Deccan, India*
B.A., University of Bombay — Genetics
Kilness, Gideon Waldemar — *Del Rapids, S. Dak.*
B.A., Luther College — History
King, Gertrude Phyllis — *Madison*
B.A., University of Wisconsin — Economics
Kirch, Annie Bell — *Madison*
M.A., University of Wisconsin — Geology
Kirchner, Alberta Edna s e — *Fountain City*
B.A., Milwaukee-Downer College — Physical Education
Kirshner, Charlotte Rebecca — *Kansas City, Mo.*
B.A., Oberlin College — Home Economics

Klein, Michael William — *Appleton*
B.A., Lawrence College — Chemistry
Knox, Harold Cyrus — *Lynden, Ontario, Canada*
B.A., Queens College — Plant Pathology
Koch, John Ralph — *Janesville*
B.S., University of Wisconsin — Chemistry
Koehler, Lucy Josephine — *Menomonee Falls*
B.A., University of Wisconsin — Home Economics
Koehler, Alfred E. m — *Mishicot*
M.S., University of Wisconsin — Agricultural Chemistry
Kolb, John Harrison — *Madison*
M.A., University of Chicago — Agricultural Economics
Kraemer, Elmer Otto — *Madison*
B.S., University of Wisconsin — Chemistry
Krause, Arlington Colton — *Green Bay*
B.A., Lawrence College — Chemistry
Krohn, Carl Arthur — *Madison*
B.S., University of Wisconsin — Chemistry
Krohn, Irwin Kjelland m — *Black River Falls*
B.A., University of Wisconsin — Anatomy
Langer, Helen Mary — *Chicago, Ili.*
M.A., University of Wisconsin — French
Larsen, Nellie May — *Lake Geneva*
B.A., University of Wisconsin — History
Lauter, Carl John — *Quincy, Ill.*
B.S., University of Illinois — Economics
Le Clair, Marie Leone — *Madison*
B.S., University of Wisconsin — Home Economics
Lee, Virgil Porter — *O'Brien, Tex.*
M.A., University of Texas — Economics
Lehmann, William Christian s e — *Madison*
M.A., Vanderbilt University — Education
Leicht, William Freeman Vilas — *New Lisbon*
B.A., University of Wisconsin — Geology
Lepkovsky, Samuel — *Kenosha*
B.S., University of Wisconsin — Agricultural Chemistry
Lerch, William — *Holtandale*
B.S., Beloit College — Chemistry
Leslie, Eleanor Isabel m — *Chicago, Ill.*
B.A., Vassar College — Medicine
Leukel, Robert Whilmer — *Brillion*
B.S., University of Wisconsin — Botany
Lewis, John Roberts — *Spanish Fork, Utah*
M.S., Univeisity of Utah — Chemistry
Link, Frances Mary — *Madison*
B.A., University of Wisconsin — Political Science
Linn, Harold Tzicheh — *Tietsin, China*
Graduate, Chilih Technical College — Chemistry
Liu, Ven Hai — *Suchon, China*
B.A., University of Wisconsin — Political Science
Loft, Genivera Edmunds — *Madison*
M.A., University of Wisconsin — Geology
Lottes, Marie Kathryn — *Madison*
M.S., University of Wisconsin — Agricultural Bacteriology

Lueck, Roger Hawks — *La Crosse*
B.S., Carroll College — Chemistry
Lumpkin, Hope Henry — *Madison*
B.A., University of South Carolina
B.D., University of the South — Economics
Lunz, Henry — *Madison*
B.S., University of Wisconsin — Agronomy
Lush, Jay Lawrence — *Madison*
M.S., Kansas State Agricultural College — Genetics
Lyon, William Riga — *Madison*
M.S., University of Illinois — Electrical Engineering
McCarthy, Margaret Jeannette — *Madison*
B.A., Oberlin College — Physical Education
McCracken, Harlan Linneus — *Madison*
M.A., Pennsylvania College — Economics
McCrory, John Raymond s e — *Fond du Lac*
B.A., University of Wisconsin — Education
Mac Garr, Katherine Llewellyn — *Madison*
B.S., Ohio Northern University — Economics
McGuinnis, Myrta Ethel — *Madison*
M.A., University of Missouri — English
McKay, Lawrence Hazelhurst — *Hendersonville, N. C.*
B.S., Virginia Mechanics Institute — Animal Husbandry
McNall, Preston Essex — *Madison*
B.S., Kansas State Agricultural College — Agricultural Economics
McPherson, Maud Esther — *Washington, D. C.*
M.A., George Washington University — English
McQuillen, Everett Eugene — *Galveston, Tex.*
B.S., Texas Agricultural and Mechanical College
Animal Husbandry
Mae Rawa, Euchi — *Saga, Japan*
B.A., Waseda University — Economics
Manny, Theodore Bergen — *Chicago, Ill.*
B.S., University of Illinois — Agricultural Economics
Manosalva, Maria Mercedes — *Concepcion, Chile*
B.A., Indiana University — Education
de Manziarly, Germaine — *Paris, France*
B.A., Sorbonne University — Economics
Martin, Ella May — *Milwaukee*
M.A., University of Wisconsin — Botany
Martindale, Katharine — *LaCrosse*
B.A., Smith College — Home Economics
Martley, John Francis — *London, England*
B.S., University of London — Forest Products
Mason, Ralph Bryant — *New Windsor, Ill.*
M.A., University of Wisconsin — Chemistry
Maupin, D. Tillman — *Sniter, Ohio*
B.S., Ohio Northern University — Political Science
Meier, Paul Adrian — *Sheboygan*
B.A., University of Wisconsin — Economics
Melrose, James Albert — *Janesville*
M.A., University of Wisconsin — Education
Merrill, Henry Baldwin — *Madison*
M.S., University of Wisconsin — Chemistry

Merrill, Louis Taylor — *Beloit*
B.A., University of Wisconsin — Political Science
Merrill, Willard Doris — *Madison*
B.A., University of Wisconsin — Economics
Mertzke, Arthur John — *Madison*
B.A., University of Wisconsin — Economics
Metschl, John — *Milwaukee*
M.A., University of Wisconsin — Chemistry
Middlebrook, Wren N. — *Meridian, Miss.*
B.S., Mississippi Agricultural and Mechanical College — Agricultural Economics
Miller, Eric Rexford — *Madison*
B.S., University of Arizona — Physics
Miller, J. Haynes — *Pleasurville, Ky.*
M.S., University of Wisconsin — Agricultural Economics
Miller, Winifred Vanderpool — *Madison*
B.A., University of Wisconsin — Philosophy
Mizell, John Love — *Dallas, Texas*
B.S., Agricultural and Mechanical College of Texas — Economics
Monteith, Elsie — *Chatham, N. J.*
B.S., Middlebury College — Home Economics
Montellano, Pedro — *Boac, Marinduque, P. I.*
B.Agr., University of the Philippines — Animal Husbandry
Moore, Ethel — *Plattsburg, Mo.*
M.A., University of Missouri — English
Moore, John Brooks — *Madison*
M.A., University of Washington — English
Moore, Marion Eleanor — *Madison*
B.A., University of Wisconsin — History
Moore, Sylvester — *Greencastle, Ind.*
B.A., DePauw University — Chemistry
Mossman, Harland Winfield — *Westfield, N. Y.*
B.S., Allegheny College — Zoology
Mott, Margaret Burling — *Pittsburgh, Pa.*
B.A., Vassar College — French
Mott, Rodney L. — *Madison*
M.A., University of Wisconsin — Political Science
Muehl, Willard Le Roy — *Seymour*
B.S., Northwestern College — Education
Muehlberger, Clarence Weinert — *Hammond, Ind.*
B.S., Armour Institute of Technology — Chemistry
Mueller, Fred George — *Madison*
Ph.M., University of Wisconsin — Philosophy
Mueller, Marguerite Charlotte — *Chicago, Ill.*
M.A., Northwestern University — History
Murphy, Brynhilde Josephine — *Madison*
B.A., University of Wisconsin — Economics
Murphy, Eleanor Janet m — *Madison*
M.A., University of Wisconsin — Medicine
Nelson, Elmer Martin — *Madison*
M.S., University of Wisconsin — Agricultural Chemistry
Nelson, Nels Theodore — *Deerfield*
B.S., University of Wisconsin — Agronomy

Neprud, Marion Catherine	*Coon Valley*
M.A., University of Wisconsin	Political Science
Nesbit, Robert Alexander	*Tekammah, Nebr.*
B.A., University of Nebraska	Zoology
Netherwood, Mirbelle	*Madison*
B.A., University of Wisconsin	Bacteriology
Nettleton, Lewis Lomax	*Nampa, Idaho*
B.S., University of Idaho	Physics
Neusbaum, Winifred Louise	*Manhattan, Kans.*
B.S., Kansas State Agricultural College	Home Economics
Nichols, Merle Starr	*Madison*
M.S., University of Wisconsin	Physiological Chemistry
Noland, Lowell Evan	*Madison*
B.A., De Pauw University	Zoology
Nothnagel, Frederick A.	*Markesan*
B.A., Ripon College	Chemical Engineering
Nye, Milo Albion	*Warsaw, Ind.*
B.S., Purdue University	Agricultural Economics
Ocfemia, Gerardo Offimaria	*Guinobatan, P. I.*
M.S., University of the Philippines	Plant Pathology
O'Laughlin, Eleanor Margaret	*Madison*
B.A., University of Wisconsin	Journalism
Oliver, George Peter	*Galesville*
B.A., University of Wisconsin	Journalism
Olivier, Victor Frederick Orlando	*Kalkspruit, South Africa*
B.S., University of Kentucky	Plant Pathology
Ostlund, Elvira Otilia m	*Butte, Mont.*
B.A., University of Wisconsin	Medicine
Paine, Paul Milton	*Madison*
B.S., University of Wisconsin	Mechanics
Parsons, Llewellyn B.	*Binghamton, N. Y.*
B.S., University of Syracuse	Chemistry
Paulson, Walter Ernest	*Hollandale*
Ph.B., University of Wisconsin	Agricultural Economics
Paxton, Glenn Ernest	*Madison*
B.S., Colorado Agricultural College	Botany
Paxton, Wilma B.	*Madison*
B.S., Colorado Agricultural College	Home Economics
Pearson, Norma Lenys	*Bloomington*
B.A., University of Wisconsin	Botany
Pease, Raymond Burnette	*Oregon*
M.A., Harvard University	English
Peckham, Caroline Serena	*Ironton*
B.A., Lawrence College	History
Peddicord, Ortho Otis	*Madison*
B.A., Valparaiso University	
Peters, Leo James	*Edgemont, S. Dak.*
E.E., University of Wisconsin	Electrical Engineering
Petersen, Max H.	*Dundee, Ill.*
M.A., Northwestern University	Physics
Pfefferkorn, Ethan Benjamin m	*Jim Falls*
B.A., Northwestern College	Medicine
Pflueger, Luther Appel	*Crystal Lake, Ill.*
M.A., Indiana University	French

Phelps, Marion Eveline	*Spokane, Wash.*	
M.A., Smith College	Physics	
Phillips, Roy Cleveland	*Norwich, Conn.*	
M.A., Harvard University	Spanish	
Pi, Tsu Pei	*Tientsin, China*	
Graduate, Chile Technical College	Chemistry	
Pierce, Harrison Morton m	*Madison*	
B.A., Milton College	Medicine	
Pietenpol, Clarence John	*Madison*	
B.S., University of Pittsburgh	Physics	
Plapp, Elsie Marie	*Chicago, Ill.*	
M.S., University of Chicago	Mathematics	
Pope, Mary Howe m	*Evanston, Ill.*	
M.A., Northwestern University	Medicine	
Porterfield, Alice Viola s e	*Omaha, Nebr.*	
B.A., University of Wisconsin	Education	
Prescott, Frank William	*Pittsfield, N. H.*	
B.A., New Hampshire College	History	
Price, John T.	*Paris, Ky.*	
M.A., Center College	English	
Quam, George Norman	*Mansfield, S. Dak.*	
B.A., University of South Dakota	Chemistry	
Ragatz, Lowell Joseph	*Madison*	
B.A., University of Wisconsin	History	
Ragatz, Roland Andrew	*Madison*	
B.S., University of Wisconsin	Chemical Engineering	
Ramsay, Ralph Edwin	*Madison*	
Ch.E., University of Wisconsin	Chemical Engineering	
Rechard, Ottis Howard, Jr.	*Madison*	
M.A., Pennsylvania State College	Mathematics	
Reddey, Charles Steven	*Madison*	
M.S., University of Wisconsin	Plant Pathology	
Reed, Helen Agnes s e	*Fulton, Mo.*	
B.A., Lenox College	Education	
Reed, Joseph	*Madison*	
M.A., Denver University	Economics	
Reid, Duncan Henry	*Madison*	
B.S., University of Wisconsin	Agricultural Education	
Renick, B. Coleman	*Paris, Ky.*	
M.S., University of Chicago	Geology	
Rettger, Robert Ernest	*Madison*	
B.A., University of Wisconsin	Geology	
Richards, C. Audrey	*Madison*	
M.A., Miami University	Botany	
Rickett, Harold William	*Madison*	
M.A., University of Wisconsin	Botany	
Riegel, Robert Edgar	*Neenah*	
M.A., University of Wisconsin	History	
Riordon, Hugh Leo	*Madison*	
B.A., University of Wisconsin	Economics	
Roberts, Ray Harland	*Madison*	
M.S., Oregon Agricultural College	Botany	
Rogers, Emma	*Madison*	
B.A., Milton College	History	

Rollefson, Gerhard Krohn	
B.A., University of Wisconsin	*Superior*
Rose, Jessie Perkins	
M.A., Stanford University	Chemistry
Rummel, Leo Leonard	*Ashland, Ore.*
B.A., St. Norberts College	Plant Pathology
Ryan, Gertrude E.	*Madison*
M.A., University of Wisconsin	English
Saecker, Carleton Engler	*Dubuque, Iowa*
B.S., University of Wisconsin	English
Salvan, Alice Marie Jeanne	*Appleton*
B.S., St. Jean College	Hydraulics
Sams, Genevieve Evelyn	*Bayonne, France*
B.M., Baker University	French
Sand, Stanley E.	*Nowata, Okla.*
B.S., Iowa State College	Music
Sandidge, William Lee, Jr.	*Eau Galle*
M.S., University of Virginia	Agronomy
Sandvik, Otto	*Lynchburg, Va.*
B.S., University of North Dakota	English
Sannes, Didrik	*Crosby, N. Dak.*
D.D.S., University of Illinois	Physics
Sasaki, Shinchiro	*Madison*
B.A., Waseda University	Medicine
Scallon, Brighidin Trumble	*Miyagiken, Japan*
M.A., University of Wisconsin	Economics
Schaaf, Wesley Elmer s e	*Hancock, Mich.*
B.A., Ohio State University	French
Schierz, Ernest Rudolf	*Cardington, Ohio*
M.S., University of Wisconsin	Education
Schlicher, John Rudolph	*Milwaukee*
B.A., University of Wisconsin	Chemistry
Schmidt, John Henry	*Rockford, Ill.*
M.S., University of Wisconsin	Chemistry
Schmitz, Henry L. m	*Madison*
B.S., University of Chicago	Chemistry
Schneller, Edwin J. m	*Chicago, Ill.*
B.S., Northwestern College	Medicine
Scholtz, Theodore Livingston	*Prairie du Sac*
B.A., University of Wisconsin	Medicine
Schrenk, Walter Theodore	*Madison*
M.S., University of Wisconsin	English
Schubert, Arthur	*Madison*
B.A., Bates College	Chemistry
Schubert, Clarence Karl Frederick m	*Madison*
B.A., University of Wisconsin	English
Scott, Almere Louise	*Madison*
B.A., University of Wisconsin	Physiology
Sebrell, Lorin Beryl	*Madison*
M.S., Ohio State University	Sociology
Sell, Mariana Theresa	*Alliance, Ohio*
B.S., University of Wisconsin	Chemistry
Senn, Pettus Holmes	*Madison*
B.S., Clemson College	Agricultural Chemistry
	Silverstreet, S. C.
	Genetics

Seubert, Wilbur Heiser — *Sioux Falls, S. Dak.*
B.S., Iowa State College — Agronomy
Seybold, Erwin George — *Forest Junction*
B.S., University of Wisconsin — Pharmacology
Seymour, Edith Katharine — *Waverley, Mass.*
M.S., University of Wisconsin — Plant Pathology
Shiels, Kenneth Grinnell — *Madison*
B.S., University of Wisconsin — Steam and Gas Engineering
Shine, Mary Lambert — *Madison*
M.A., University of Cincinnati — History
Shire, Ann Matilda — *Madison*
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Shoenberger, Harold William — *Northampton, Pa.*
M.A., University of Pennsylvania — English
Showalter, Amos Martin — *Harrisonburg, Va.*
M.A., University of Wisconsin — Botany
Silver, Frank Vern — *Madison*
B.S., Northwestern University — Chemistry
Simley, Ole Andrew — *Black Earth*
M.A., Carleton College — Philosophy
Simmonds, Paul William — *Milwaukee*
B.A., University of Wisconsin — Chemistry
Singer, Fred John — *Seattle, Wash.*
B.S., University of Washington — Electrical Engineering
Sister Mary Lambertina Doran — *Dubuque, Iowa*
B.A., DePaul University — English
Sister Mary Counciline Matt s e — *Dubuque, Iowa*
B.A., Mt. St. Josephs College — Education
Slagg, Charles Mervyn — *Madison*
M.S., University of Wisconsin — Plant Pathology
Slichter, Louis Byrne — *Madison*
M.A., University of Wisconsin — Physics
Smit, Benjamin Johannes — *Reitz, Orange Free State, South Africa*
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M.A., University of Wisconsin — Chemistry
Smith, Harvey McKinley — *Lancaster, Ohio*
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Smith, Herman Hale — *Madison*
M.A., Washington State University — Economics
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B.A., Western Maryland College — Chemistry
Smith, Mary Ruth — *Madison*
B.A., University of Wisconsin — French
Smith, Paul Samuel l — *Richmond, Ind.*
M.A., University of Wisconsin — History
Smith, Wyman Sydney — *Brandon*
B.S., University of Wisconsin — Journalism
Sommer, Hugo Henry — *Sheboygan*
M.S., University of Wisconsin — Agricultural Chemistry
Spence, Mary Leslie — *Madison*
M.A., University of Wisconsin — English

Sperling, Arthur August — *West Depere*
B.A., University of Wisconsin — Mathematics
Spieth, Benjamin Stephen — *Mitchel, Nebr.*
B.S., University of Nebraska — Steam and Gas Engineering
Sprague, Frank Arthur — *Madison*
M.A., University of Wisconsin — Spanish
Staidl, Joseph Arnold — *Madison*
Ch.E., University of Wisconsin — Chemical Engineering
Stearn, Noel Hudson — *Madison*
M.A., Stanford University — Geology
Steele, Marjorie Elouise — *Ft. Collins, Colo.*
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Steinle, John Vernon — *Madison*
B.S., University of Wisconsin — Chemistry
Stewart, Harold Wilson — *Madison*
B.S., University of Illinois — Soils
Stewart, Lois Katherine — *Spearville, Kans.*
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Stiles, Ralph DeMerit — *Lake Mills*
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Stinchfield, Sara Mae — *Madison*
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Strang, Louise Luqueer — *Madison*
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Strickler, Alvin — *Madison*
M.S., University of Michigan — Chemistry
Stupp, Lillian Laura s e — *St. Louis, Mo.*
B.A., Washington University, St. Louis, Mo. — Physical Education
Sullivan, Francis Thomas — *Arena*
B.S., University of Wisconsin — Agricultural Chemistry
Tabor, Henry Whitney — *Madison*
B.S., University of Wisconsin — Hydraulic Engineering
Tang, Yang Yii — *Han-Shang-Hsien, China*
B.A., University of Missouri — Chemistry
Tasaka, Shigetada — *Tokoyo, Japan*
B.A., Waseda University — Economics
Taylor, Clara Bertram — *Madison*
B.A., University of Wisconsin
Taylor, Edward Gordon — *Madison*
B.S., Massachusetts Institute of Technology — Physics
Taylor, Henry Gordon — *Madison*
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Tetreau, Eleazer — *Madison*
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Thayer, Vivian Trow — *Madison*
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B.S., State Teachers College, Springfield, Mo. — History
Thompson, Evan Gwynne — *Lake Mills*
B.A., University of Wisconsin — Geology
Thompson, Noel Finley — *Yakima, Wash.*
M.S., University of Washington — Plant Pathology
Thompson, H. Walter — *Madison*
M.A., University of Kansas — Political Science
Thorngate, George m — *Madison*
B.A., Milton College — Medicine
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B.Agron., Sao Paulo, Brazil — Dairy Husbandry
Tomlinson, Charles Watson s e — *Eau Claire*
B.A., Northwestern University — Education
Tosterud, Martin — *Caledonia, Minn.*
B.S., University of Wisconsin — Chemistry
Townley, Hubert Claude s e — *Madison*
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Trautmann, William John — *Madison*
Ph.M., University of Wisconsin — Chemistry
Treille, Henriette Marie Marguerite — *Paris, France*
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Tsao Jui Chih Tai Yuan Fu — *China*
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B.S., Nagoya, Japan — Chemical Engineering
Turner, Jennie Willing McMullin — *Madison*
M.A., University of Wisconsin — Economics
Tuttle, Edith Maria — *Kingfisher, Okla.*
B.A., Grinnell College — English
Tylor, W. Russell — *Madison*
M.A., University of Wisconsin — Economics
Umbreit, Freda Emmert — *Milwaukee*
B.A., University of Wisconsin — Pharmacology
Vennus, Elizabeth Mary — *Madison*
B.S., University of Wisconsin — Philosophy
Vergeront, Marie Edna — *Madison*
B.A., University of Wisconsin — Economics
Verhulst, John — *Sheboygan*
B.S., University of Wisconsin — Agricultural Chemistry
Vickers, James Leonard m — *Madison*
B.A., Johns Hopkins University — Bacteriology
Viel, Lyndon Clyde — *Arlington*
B.A., Northwestern College — Economics
Waide, William — *Arlington Heights, Ill.*
B.A., Cedarville College — Agricultural Economics
Wakeman, J. Newton — *Republic, Mo.*
B.S., Drury College — Physiology
Wallrich, Lucy Angeline — *Shawano*
B.A., University of Wisconsin — Political Economy
Warttman, Paul — *Cedar Falls, Iowa*
B.A., Iowa State Teachers College — Chemistry
Waterman, Edna Blanche — *Caldwell, Ida.*
B.A., College of Idaho — Home Economics

Watson, Isabella — *Northfield, Minn.*
B.L., Carleton College — French
Weaver, Andrew Thomas — *Madison*
M.A., University of Wisconsin — Philosophy
Weaver, Warren — *Madison*
C.E., University of Wisconsin — Physics
Weber, George F. — *Madison*
B.S., University of Wisconsin — Plant Pathology
Weeks, Herbert John — *Chilton*
B.A., University of Wisconsin — Geology
Weeks, Mary Elvira — *Oshkosh*
M.A., University of Wisconsin — Chemistry
Wehrwein, George Simon — *Madison*
M.S., University of Wisconsin — Economics
Whipple, Marcia — *Madison*
B.A., University of Wisconsin
White, David George — *Madison*
M.A., University of Nebraska — Economics
White, Lillian Alice — *Chicago, Ill.*
Ph.B., University of Chicago — Romance Languages
Whitford, Earl Lester — *Edgerton*
B.A., Iowa State Teachers College — Chemistry
Wilgus, Alva Curtis — *Platteville*
B.A., University of Wisconsin — History
Williamson, Robert Vernon — *Albany, Ore.*
M.S., University of Wisconsin — Chemistry
Willson, Elizabeth — *Madison*
Ph.D., University of Chicago
Wilson, Anna C. — *Humboldt, Iowa*
B.S., Iowa State Teachers College — Home Economics
Wilson, Frank C. — *Madison*
B.S., Kansas Agricultural College — Agricultural Bacteriology
Wilson, George Pickett — *Madison*
M.A., Columbia University — English
Wilson, James Herbert — *Bethel, Vt.*
B.A., Oxford University — French
Wilson, Margaret Curtiss — *Madison*
B.A., University of Wisconsin
Wineland, Grace Adel — *Bryan, Ohio*
M.S., Purdue University — Plant Pathology
Wise, Clarence Reuben — *Madison*
M.S., University of Wisconsin — Chemistry
Wise, Evelyn — *Jackson, Tenn.*
B.A., University of Wisconsin — Physics
Wood, Beatrix Lanore — *Madison*
B.A., University of Wisconsin — Zoology
Wood, Elizabeth Compton — *Palo Alto, Cal.*
B.A., Stanford University — Economics
Wood, Fredrick — *Madison*
M.A., University of Wisconsin — Mathematics
Yoke, John Johnathan — *Acton, Ind.*
B.S., University of Illinois — Genetics
Young, Albert Gayland — *Olathe, Colo.*
D.V.M., Colorado State Agricultural College — Bacteriology

Zeisler, Emma Louise	*La Crosse*
B.A., Milwaukee Downer College	Mathematics
Zorbaugh, Grace S. McClure	*Cleveland, Ohio*
B.A., Western Reserve University	Economics
Zucker, Louis Clement	*Philadelphia, Pa.*
M.A., University of Pennsylvania	English

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UNDERGRADUATES

COLLEGE OF LETTERS AND SCIENCE

Seniors

Albrecht, Selma Carrie s e	*Madison*
Allen, Rosamond	*Boston, Mass.*
Allyn, Louise	*Madison*
Alway, Martha Marie s e	*Aberdeen, S. Dak.*
Anderson, Neva Esther	*Superior*
Andrews, Celia s e	*South Wayne*
Aschenbrenner, Stephen Alexander l	*West Allis*
Assovsky, Charles David	*Milwaukee*
Austin, Allen Sunday	*Milwaukee*
Bach, Mark John m	*Milwaukee*
Bacon, Caryl Monona s e	*Madison*
Bacon, Isabel Lyman	*Salt Lake City, Utah*
Bakken, Henry Harrison	*Blue Mounds*
Baldwin, Marion Elizabeth s e	*Berwyn, Ill.*
Bangsberg, Myrtle Othilda	*La Crosse*
Barnes, Harry George	*Campbell, Minn.*
Barrett, Elzaida Mildred	*Baraboo*
Bassett, Dorothy Jane	*Ottawa, Ill.*
Baumann, Eleanore Ottalie	*Winona, Minn.*
Bendeke, Valdis Marion	*Grand Forks, N. Dak.*
Bennett, Donald Menzies	*Madison*
Berger, Elsa m	*Milwaukee*
Bernhardt, Edmound Floyd m	*Wilton*
Bielenberg, Marie Louise	*Elgin, Ill.*
Bigler, John Adolph m	*Chippewa Falls*
Birtcherd, Edna Maurene	*Norfolk, Va.*
Blaul, Bertha Pauline	*Burlington, Iowa*
Blum, Bruce Marty l	*Monroe*
Bodden, Marie Viola	*Neenah*
Boehmer, Kathryn Mueller	*Kearney, Nebr.*
Bohl, Warren Albert l	*Brookings, S. Dak.*
Boies, Addella	*Waterloo, Iowa*
Boies, Lawrence Randall m	*Centuria*
Bolliger, Lydia Aurelia s e	*Madison*
Borchers, Gladys Louise s e	*Madison*
Borden, William Henry	*Madison*
Borman, Milton Carter m	*Oshkosh*
Boyden, Alan Arthur	*Madison*
Bradley, Irene Bertha s e	*Boulder, Colo.*
Bramlette, Milton Nunn	*Madison*

s e, Registered in the School of Education.

Breazeale, Virginia Norvil	*Meridian, Miss.*
Breidablik, Anna Bergitte	*Madison*
Breister, Benjamin Walter	*Fond du Lac*
Breitenbach, Margaret Frances	*Madison*
Brennan, Elsie May s e	*Lancaster*
Brittingham, Thomas Evans, Jr.	*Madison*
Brown, Enid Lois	*Colfax, Iowa*
Brown, Grant Houston	*DeKalb, Ill.*
Brown, Leslie Edwin	*Whiting, Iowa*
Brown, Thomas Kenneth m	*Waupun*
Bugbee, Virginia Hempsted	*Waukesha*
Bump, Warner Smith m	*Wausau*
Bunge, George Christian	*La Crosse*
Burke, Thomas Nicholas	*Wayside*
Burnham, Lois Frances	*Madison*
Butts, Stanley Van Dyke	*Tomah*
Byers, Ruth	*Coldwater, Mich.*
Caldwell, Hugh McIntyre m	*Poynette*
Calvert, Charlotte Joslin s e	*Madison*
Campbell, Arch Phelps m	*East Ellsworth*
Campbell, Everette Lowell m	*Madison*
Carlock, Dorothy Mabel s e	*Mechanicsburg, Ill.*
Carpenter, Earl Eugene m	*Superior*
Carpenter, Esther Jean	*Canton, S. Dak.*
Carver, Horace Jones	*Milwaukee*
Castles, Martha Lucile	*St. Louis, Mo.*
Caylor, Truman E. m	*Bluffton, Ind.*
Chamberlain, Jean Bosler	*Harrisburg, Pa.*
Chandler, Elizabeth Ash	*Silver Springs, Md.*
Chase, Ruluf Arthur	*Madison*
Chiao, Wan Hsuan	*Tsing, Shansi, China*
Christianson, Oscar	*Beloit*
Clark, Burton, Jr. m	*Oshkosh*
Clark, Grace	*Ottumwa, Iowa*
Claxton, Mabel Louise	*French Lick, Ind.*
Clayton, Helen	*Webster Groves, Mo.*
Coburn, Frances Gilfillan	*West Salem*
Cole, Emerson	*Madison*
Commons, Rachel Sutherland	*Madison*
Conklin, Frances Eugenia	*Hutchinson, Kans.*
Conley, Henry Harold m	*Cazenovia*
Conn, Russell Archibald s e	*Edgerton*
Connell, Laura May m	*Fond du Lac*
Constance, Fern Elizabeth	*Waupaca*
Cook, Mabel Louise s e	*Chippewa Falls*
Cooper, Doris Edwina s e	*Madison*
Cornish, Pauline Dorothy	*Denver, Colo.*
Corr, William Philip m	*Juneau*
Cox, Deirdre Dorothy	*Chicago, Ill.*
Cox, Eleanor Harriet	*Madison*
Crabbe, Henrietta Mary s e	*Green Bay*
Croskey, Marguerite Isabel s e	*Madison*
Crownhart, Jesse George	*Madison*

Culnan, John Herbert	*Marinette*
Culver, Lucian Glenn m	*Eau Claire*
Curley, Rosamond Kathryn	*Terre Haute, Ind.*
Cutler, Viola Alyse	*Madison*
Dachtler, Mildred Veronica	*Council Bluffs, Iowa*
Davey, Allan Cecil	*Sheboygan*
Davidoff, Isidore Zolman m	*Milwaukee*
Davidson, Jay Hyman	*Racine*
Davis, Robert William	*Madison*
Debbink, Marion	*Milwaukee*
Dehler, Sophie Anne	*Helena, Mont.*
Delker, Loretta Mathilda	*Milwaukee*
Dellicker, Doris Elliott	*Milwaukee*
Desimval, Grace Marion s e	*Superior*
DeVilbiss, Bess Beatrice	*Ft. Wayne, Ind.*
Dick, Helen Mae	*Memphis, Tenn.*
Dickens, Marion	*Milwaukee*
Diebold, Frances Elizabeth s e	*Madison*
Dobry, Lillian Anna m	*Algoma*
Docter, Myron George	*Milwaukee*
Dodge, Howard McLellan	*Valparaiso, Ind.*
Doerr, Margaret Alice m	*Mount Vernon, Ind.*
Doggett, Ruth Janet s e	*Danville, Va.*
Donald, Delma Ellen	*Madison*
Dopp, Edith Isabel	*Davenport, Iowa*
Dowling, Philip Herschel	*Madison*
Draper, John Harold	*Oak Park, Ill.*
Dredge, Thomas Joseph m	*Madison*
Dreier, Hazel Lorinda s e	*Norwalk*
Dreps, Joseph Antone	*Tomah*
Dummer, Frances	*Chicago, Ill.*
Dunbar, Elizabeth Dawson	*Elkhorn*
Dwight, Frances Elizabeth	*Madison*
Ede, Kenneth Leland	*Hillsboro*
Edson, Dewey George	*Alcester, S. Dak.*
Edwards, Wilmer Charles m	*Marion*
Ellis, Ivan George m	*Milwaukee*
Emanuel, Eulalia Alfreda s e	*Shawano*
Emerson, Adelph Herman m	*La Crosse*
Emery, Clyde Burlis	*Kansas City, Mo.*
Ende, Arthur	*Sheboygan*
Epstein, Janet Sylvia s e	*Delavan*
Ethier, Eunice Mariette s e	*Milwaukee*
Evans, Alice Louise	*Shuqulak, Miss.*
Evans, Dorris	*Spiceland, Ind.*
Evans, Margaret	*Indianapolis, Ind.*
Evans, Maysel Evelyn s e	*Bangor*
Evans, Richard Donald m	*Madison*
Exley, Erwin William m	*Menasha*
Falk, Adele Marie	*Lake Mills*
Falk, Philip Hadley s e	*Lake Mills*
Feckler, Mary Elizabeth	*Fargo, N. Dak.*
Feeney, John Matthias m	*Glenwood, Minn.*

Fiedler, Donald John	*Platteville*
Filtzer, Flora Marie Louise	*Milwaukee*
Finch, Edith Louise s e	*Peoria, Ill.*
Fishburn, Katharine	*Madison*
Fisher, Elizabeth Mildred s e	*Madison*
Fisher, Margaret	*Chicago, Ill.*
Fisher, Susie s e	*Houston, Tex.*
Flatz, George Henry m	*Milwaukee*
Follett, Lothrop Frank	*Ottawa, Ill.*
Forsberg, Allen Bennett	*West Duluth, Minn.*
Forward, Katherine Gertrude	*Oshkosh*
Foster, Carlton Harwood	*Oshkosh*
Francis, Marguerite Arline	*Brooklyn, N. Y.*
Franklin, Louis	*Milwaukee*
Fritsch, Dorothy	*Wauwatosa*
Fucilla, Joseph Guerin s e	*Racine*
Fugina, Clarence Edward	*Arcadia*
Fuller, Agnes M. s e	*Madison*
Fuller, Florence E.	*Madison*
Gapen, Edna Courtney s e	*Monroe*
Gapen, Zelda Judith	*Monroe*
Gibson, Virginia Lundy	*Muskogee, Okla.*
Gill, Helen Etta	*Madison*
Gleerup, Grace Alise	*Madison*
Gnewikow, Sylvia Helois s e	*Norwalk*
Goessling, Wilber William	*University City, Mo.*
Goff, Sidney Britton m	*Elkhorn*
Gold, Ida Eudice	*Berlin*
Goodwin, Marion	*Hartland*
Gordon, Richard Jacob m	*Chicago, Ill.*
Goss, Marian Maxwell	*Oshkosh*
Graham, Esther Gertrude s e	*Milwaukee*
Grams, Raymond Carl	*La Crosse*
Greene, Gladys	*Madison*
Greenwood, Charles George	*Emerson, Iowa*
Gregg, Mabel Josephine	*Madison*
Gruenheck, Gussie Ann	*Madison*
Gutenkunst, Eleanor Marie	*Milwaukee*
Haass, Marie Evelyn	*Pewaukee*
Hadfield, Anna Helen s e	*Madison*
Hadley, Gladys Richey	*Ft. Wayne, Ind.*
Haldeman, Lennox Glen	*Wauwatosa*
Hall, Earle Hopkins m	*Oconto*
*Hall, Joseph Alford	*Madison*
Hall, Marion Ferris s e	*Evanston, Ill.*
Halsor, Josephine Marie s e	*De Forest*
Hammond, Harriet Elizabeth	*Antigo*
Hampton, Mary McDuffie	*Washington, D. C.*
Hancock, Madeleine Prudence	*Chicago, Ill.*
Hanitch, Catherine Louise s e	*Superior*
Hanks, Julia Judge	*Madison*

*Newport Fellow in Pharmacy, second semester, 1920-21.

Harloff, Gladys Louise s e	*Madison*
Harper, Helen Campbell	*Burlington*
Hart, Mae Evelyn s e	*Waunakee*
Hatch, Irma Clex s e	*Eau Claire*
Hatfield, Hazel May s e	*Madison*
Hauck, Rachael s e	*Fairbury, Nebr.*
Hausmann, Eleanor Henrietta	*Madison*
Heath, Catherine King	*Green Bay*
Hemingway, Robert Wing m	*Mattoon*
Hertzberg, Oscar Edward s e	*Oshkosh*
Hess, Ardis Marie m	*Mauston*
Hinkins, Marcia Nelson s e	*Delavan*
Hinman, Dorothy s e	*Sandwich, Ill.*
Hiss, Agnes, Ames	*Denver, Colo.*
Hoard, Marjorie Jean	*Sharon*
Hoffman, Arthur Louis s e	*Milwaukee*
Holford, Frances Elizabeth m	*Cassville*
Holscher, Herbert Frederick l	*McFarland*
Hooper, Dorothy June	*Aberdeen, S. Dak.*
Hoover, Kenneth Harry	*Milwaukee*
Hornibrook, Kathryn s e	*Marinette*
Hovlid, Leonard Marvel s e	*Menomonie*
Hubbard, Lucille Marie	*De Soto*
Hughes, William Arthur s e	*Carrollville*
Hume, Jessie Henrietta	*Milwaukee*
Hunt, Lydia Elizabeth s e	*Madison*
Hunt, Rhea	*Barronnette*
Huston, Elizabeth	*Paris, Ill.*
Hyslop, Volney Butman m	*Madison*
Hyzer, Leland l	*Janesville*
Ingli, Irene Gwendolen	*Ellsworth*
Ingram, Walter Julius	*Rice Lake*
Irish, Esther June	*Brookings, S. Dak.*
Iversen, Agnes Mathilda	*Stoughton*
Jacobson, Roland Arthur m	*Billings, Mont.*
Jenison, Frances Ernestine	*Fond du Lac*
Jennings, Blandford	*Madison*
Jewell, Ernest Lemon m	*Hillsboro*
Johnson, Almeda Alice	*Augusta*
Johnson, Harvey Chester m	*Superior*
Johnson, Howard Lauritz s e	*Racine*
Johnson, Mary Anastasia	*Lemont, Ill.*
Johnson, Miriam Louise	*Bellefontaine, Ohio*
Johnson, Thelma Beryl	*Madison*
Jolliffe, Elsie Lucy	*Bozeman, Mont.*
Jones, Amaretta Beth	*Sparta*
Jones, Mabel Jennings	*Waupun*
Jones, Russell Alger	*Oak Park, Ill.*
Juster, Eugene Meyer m	*Milwaukee*
Kaumheimer, Leon Emanuel	*Milwaukee*
Keith, Helen Lincoln	*Galesville*
Kellogg, Lucy Mary s e	*Janesville*
Kessenich, Lucille Ernestine	*Madison*

Kinne, Constance s e	*Elkhorn*
Knowles, Edith Gray	*Philadelphia, Pa.*
Koehn, Beatrice Zillier	*Sheboygan*
Kohlhoff, Carl Henry s e	*Warren, Ill.*
Komers, Paula Vera	*Wausau*
Kornreich, Eugene Frederick m	*Milwaukee*
Krebs, Esther Viola	*Berlin*
Krembs, Ferdinand Richard m	*Stevens Point*
Kreutz, George Charles m	*La Crosse*
Kropf, Dorothy Ann s e	*Madison*
Kupperman, Frances Victoria m	*Madison*
Kyle, Lucile	*Tomah*
Lacey, Lydia Joy	*Madison*
Laskey, Norman Franklin m	*Superior*
Latimer, Frances Hamilton	*Mellen*
Latta, Dorothy Elizabeth s e	*Des Moines, Iowa*
Lentz, Robert Carl	*Mayville*
Lerdahl, Nels Christian s e	*De Forest*
Lewis, Pauline	*Madison*
Lichtenwalner, Roy P. l	*Monroe*
Lightbody, Julia Thomas	*Superior*
Loose, Kathryn Alice s e	*Waukesha*
Loughlin, Edward Leo	*Madison*
Lounsbury, James Anderson	*Madison*
Lowe, John William m	*Whitehall*
Lucas, Doris Gretchen	*Milwaukee*
Lugg, Joseph Henry	*Whitewater*
Lyons, Robert Donlan	*Vermilion, S. Dak.*
McAdams, Mary A. s e	*Mukwonago*
McCarthy, Helen May	*Madison*
McClelland, Ruth Marie s e	*Findlay, Ohio*
McConnell, Beatrice Jessie	*Sherrard, W. Va.*
McCullough, Marion Edith	*Wauwatosa*
McDermott, Leone	*Darlington*
McDonald, Edward Martin	*Beaver Dam*
McDougall, Tyrrell Glen m	*Britton, S. Dak.*
Mac Ewan, Charlotte Genevieve s e	*Kalamazoo, Mich.*
McKitrick, Mildred Marie	*Madison*
Mac Laurin, Dorothea Drummond	*Madison*
McMullen, Glenn John	*Tomah*
McMurry, Ora Richard m ..	*Evansville*
Mabley, Hilda Barney	*St. Louis, Mo.*
Madden, Helen Monica s e	*Tomah*
Madison, Frederick William m	*Lodi*
Mallory, Margaret Wilde s e	*Hampton, Iowa*
Markham, Elizabeth	*Manitowoc*
Markus, Norbert Williams	*Quincy, Ill.*
Marsden, Wendell Hubert m	*Fennimore*
Marsh, Harry Gilmore m	*Waunakee*
Marshall, Samuel Hager	*Madison*
Martin, Jennie McKee	*Mt. Horeb*
Martineau, Mary Lenore s e	*Marinette*
Martineau, Thomas Bourgoine	*Oshkosh*

Martinstein, Marie	*Oskaloosa, Iowa*
Marty, Rosa s e	*Council Bluffs, Iowa*
Meadows, Elizabeth White	*Wausau*
Mecartney, Malcolm	*Hinsdale, Ill.*
Meek, Dudley Holmes	*San Antonio, Tex.*
Meinert, Albert Erwin m	*La Crosse*
Meyer, Anita Louise	*Wauwatosa*
Meyer, Helene Frances s e	*Holland, Mich.*
Meyer, Nella Katherine s e	*Holland, Mich.*
Michaelis, Carlena Jane s e	*Kenosha*
Milbrandt, Ruth Victoria s e	*Brooklyn*
Miller, Russell Howard m	*Whitewater*
Miller, Ruth Beatrice s e	*Alma Center*
Monfried, Clara	*Madison*
Montgomery, Minette Alice s e	*Green Bay*
Moore, Charles Francis	*Madison*
Morehouse, Lillian Maud w l s	*Elkhart, Ind.*
Morgan, Genevieve Eleanor	*Des Moines, Iowa*
Moss, Winifred	*Milwaukee*
Mueller, Emma Caroline s e	*Madison*
Mueller, Gretchen	*Lebanon, Ky.*
Mueller, Gustav Gottlieb m	*Princeton*
Munro, Alice Beecher	*Princeton, N. J.*
Muskat, Harry	*Milwaukee*
Neal, Margaret Eastwood s e	*Lake City, Minn.*
Neiberger, Mary Coe	*Normal, Ill.*
Neprud, Lincoln	*Westby*
Newcomb, Alvah Lay m	*Pepin*
Newcomb, Clara Forrest	*Waupun*
Newcomb, Helen	*River Falls*
Newton, Mary Alice	*Washington, D. C.*
North, Ludlow Frey	*Green Bay*
Occena, Mateo Felix	*Sam Remigio Antique, P. I.*
O'Hora, Agnes Sarah	*Mazomanie*
O'Keefe, Aileen Elizabeth s e	*Waunakee*
O'Keefe, Lucille Elizabeth	*Madison*
Oppel, Catherine Wells	*Madison*
Orr, Robert Connell	*Waukesha*
Osgood, Wayland	*Windsor*
O'Shea, M. Vincent	*Madison*
Otteson, Thelma Antonette s e	*Viroqua*
Owen, Helen Joanne	*Milwaukee*
Palmer, Lora Belinda	*La Crosse*
Paras, Conrado Mercedes	*Boac, Philippine Islands*
Parkhill, Frances Margaret	*Rochester, Minn.*
Parkinson, Mary Julia	*Madison*
Passmore, Josephine Bloodgood	*Port Washington*
Patchen, Josephene Norris	*Manitowoc*
Paul, Olin m	*Marshfield*
Paulson, Thelma Luella	*Evansville*
Peabody, Charlotte Elizabeth	*Madison*
Pearson, Josephine Rae	*Upper Montclair, N. J.*
Peck, Purcelle Vernita	*Pana, Ill.*

Penhallegon, Marian Loveday s e	*Mineral Point*
Pepper, Olive Walton s e	*Allensville, Ky.*
Pestalozzi, Hasso Karl	*Milwaukee*
Peterson, Edward Nohl m	*Florence*
Peterson, Eleanor Lelia s e	*Rochester*
Peterson, Leo Willis m	*Granton*
Peterson, Marvin Garfield m	*Geneva, Ill.*
Phillips, Burr Wendell	*De Pere*
Phillips, Vera Irma s e	*Milwaukee*
Pickard, William John	*Evanston, Ill.*
Pinkerton, De Witt Van	*Neenah*
Pleck, Joseph Harold l	*Sturgeon Bay*
Plowman, Paul Dearborn s e	*Waupaca*
Poertner, Dorothy Janet	*St. Louis, Mo.*
Pointer, Ruth m	*Birmingham, Ala.*
Pollock, Bertha Maude	*Gilman, Ill.*
Potts, Esther Viola	*Madison*
Pouder, Helen Catherine	*Indianapolis, Ind.*
Pradt, Alan Emmons	*Wausau*
Preston, Mary Ellen s e	*Brodhead*
Price, Frances Louise	*Milwaukee*
Quinlan, Margaret Amelia w l s	*Antigo*
Ralph, Edwin Donald	*Wauwatosa*
Randolph, John Binford l	*Lafayette, Ind.*
Rastede, Ethel Bernice	*Morrison, Ill.*
Raymond, Grace Brewster	*Newton Centre, Mass.*
Reed, Zilpha Eliza s e	*Blue River*
Resh, Warren Herlan s e	*Winnebago, Ill.*
Richey, Mary Dorothy	*Glenvillard, Penn.*
Riley, Eleanor Farrell	*Madison*
Roberts, Arnol Victor	*Wild Rose*
Roberts, Esther Josephine	*Madison*
Robertson, Clark Mead	*Plymouth*
Rockwell, Ruth Evelyn s e	*Crown Point, Ind.*
Roessler, Evora Kathryn s e	*Milwaukee*
Rogers, Mildred Adella	*Evanston, Ill.*
Ross, Florence Marie	*Beloit*
Rounsevell, Dorothy May	*River Falls*
Royse, Edith Hull	*New York, N. Y.*
Ruder, Leona Emily	*Wausau*
Rummele, Ruth Elizabeth	*Sheboygan*
Russell, Cecil Macauley	*Osseo*
Ruth, Edith Johannah s e	*Superior*
Ruth, Signa Mary s e	*Superior*
Rutherford, William Thomas	*Milwaukee*
Ryan, Frances Aveline	*Wisconsin Rapids*
Rygh, Edgar Andrew m	*Madison*
Sackett, Helen Elizabeth	*Springfield, Ohio*
Salisbury, Jane Frances	*Sparta*
Samuels, Agnes Helen s e	*Madison*
Sanborn, Vinnie Frances	*Madison*
Schaper, Dorothy s e	*Milwaukee*
Schapiro, Saul m	*Milwaukee*

Schecker, Emmy	*Milwaukee*
Schlomovitz, Elias Herman m	*Milwaukee*
Schlomovitz, Harry Herman m	*Milwaukee*
Schneller, Lucille Amber s e	*Arcadia*
Schroeder, Marion Elaine	*Chicago, Ill.*
Schuette, Louise Marie	*Manitowoc*
Schuller, Gertrude Marie	*Indianapolis, Ind.*
Schultz, Edward George	*Madison*
Schulz, Irwin Paul William m	*Milwaukee*
Schumaker, Arlisle	*Milwaukee*
Schweizer, Gretchen Marie	*La Crosse*
Scott, Margaret Helen s e	*Richland Center*
Seaton, Dorothy Melissa	*Canton, Ill.*
Seeger, Ruth Helen	*Manitowoc*
Seguin, Hazel Arlina s e	*Superior*
Seids, John William, Jr.	*Moline, Ill.*
Shaw, Donald Lee	*Delavan*
Shepard, Marguerite Eugenia s e	*Madison*
Sherburne, Beatrice	*Madison*
Sherr, Joe Robert	*Milwaukee*
Shirey, Hazelbelle	*Madison*
Shreve, Adrienne Alba	*Washington, D. C.*
Sillar, Anne	*Plainfield, Ill.*
Simmons, Grace Elizabeth	*Chicago, Ill.*
Simpson, Alexander Lewis	*Shullsburg*
Sinaiko, Leila s e	*Madison*
Sister Mary Pierre Hanrahan	*Sinsinawa*
Skaar, Marguerite	*La Crosse*
Smiley, Florence Ida s e	*Madison*
Smith, Frances Eugenia	*Madison*
Smith, Lewis Pettibone	*Chicago, Ill.*
Smith, Mabel Mayhew	*Chicago, Ill.*
Snyder, Helen Marie	*Massillon, Ohio*
Spaulding, Juniet Walker	*Princeton, Itl.*
Spawn, Robert Baylis	*Beloit*
Sprague, Murray Hugh	*St. Joseph, Mo.*
Staab, Irene Johanna s e	*Wall Lake, Iowa*
Steadman, Lillian Mable	*Beresford, S. Dak.*
Stetson, Marjorie Frances	*Lake Mills*
Stevens, Linton Cooke	*Milwaukee*
Stevens, Thelma Butler	*Lancaster*
Stevenson, Eva Caroline s e	*Madison*
Stevenson, Helen	*Des Moines, Iowa*
Stewart, Lillian Victoria s e	*Madison*
Stewart, Pearl Esther	*Baltimore, Md.*
Stinson, Mary Gilliam	*Mt. Vernon, Ind.*
Stork, Mary Elizabeth	*Madison*
Storms, Ruth	*Santa Monica, Cal.*
Strehlow, Arthur Frank	*Omaha, Nebr.*
Stucki, John Calvin m	*Black River Falls*
Sullivan, Laura Frances s e	*Milwaukee*
Sutcliffe, Leah Marion s e	*Chicago, Ill.*
Sutliff, Wheelan Dwight m	*Rhinelander*

Swan, Mary Florence	*Wauwatosa*
Swancutt, Ida Estelle s e	*Sioux Falls, S. Dak.*
Swift, Margaret Julia s e	*Darlington*
von Szeliski, Victor Spartan	*Madison*
Tasche, Leslie William m	*Sheboygan*
Taylor, Eva Minerva s e	*Lancaster*
Teare, Dorothy Grace	*Monmouth, Ill.*
Templeton, Hugh Longwill	*Lima Center*
Templin, Vera May s e	*Baraboo*
Teschner, Paul August Karl m	*Milwaukee*
Thompson, Troy Melvin m	*Madison*
Thoms, Mildred Florence	*Appleton*
Thomson, John Norman l	*Centerville, S. Dak.*
Thornton, David Howard s e	*Madison*
Tippet, Walter Pierson m	*Appleton.*
Titus, Winifred	*Fond du Lac*
Torrison, Mandt	*Manitowoc*
Trewartha, Glenn Thomas	*Hazel Green*
Tsai, Feng	*Peking, China*
Tucker, Frances Ellen s e	*Madison*
Uhl, Helen Grace s e	*La Crosse*
Van Meter, Frances s e	*Des Moines, Iowa*
Vingom, Clair Odin m	*Cleiv, Mont.*
Vinje, Ethel	*Madison*
Vogel, Samuel Alexander m	*Superior*
Voorhees, Elizabeth Aston	*Washington, D. C.*
Voorhees, Mary Toucey	*Washington, D. C.*
Votteler, Gretchen Pauline s e	*Waukesha*
Wacek, William Harold m	*Madison*
Waite, Kathleen Mina	*Nashua, Iowa*
Waite, Philip Clawson	*Oshkosh*
Walker, Emroy Clement s e	*Randolph*
Walz, Chester Davison	*Madison*
Ward, Alonzo LaRue, Jr.	*Aberdeen, S. Dak.*
Waterbury, Eva Kate	*Prairie du Sac*
Waterman, Elizabeth Marian s e	*Chicago, Ill.*
Wegner, James Hugo l	*Marshfield*
Wegner, Henry Carl s e	*Oconto*
Weihe, Raymond Guthard s e	*Milwaukee*
Weston, Frank Lawrence m	*Mason City, Iowa*
Whaley, Carroll Omar s e	*Janesville*
White, Lola Ferne	*River Falls*
Whitney, Beryl Esther	*Madison*
Wieben, Anella Marie	*Milwaukee*
Wigder, Clara Florence	*Milwaukee*
Williams, Ada Griswold	*Oshkosh*
Williams, Dorothy Mae	*Gettysburg, S. Dak.*
Wilson, Helene Elizabeth s e	*Superior*
Winckler, Katherine s e	*Madison*
Witter, Marion L.	*Spencer, Iowa*
Wittkop, Norman Lorenz	*Hartford*
Wolf, Lorelle Arthur s e	*Madison*
Wolfe, John Calvin	*Madison*

Wolfe, Ruth Matilda	*Sun Prairie*	
Wolfe, Seth August	*Madison*	
Wright, Hazel Embree s e	*Webster Groves, Mo.*	
Wright, Warren Finch s e	*Fond du Lac*	
Yeh, Yuan-Lung	*Chuchow, China*	
Zimmerman, Beulah Worthley s e	*Fremont, Ohio*	—521

Course in Commerce

Abbott, John Rodney	*Madison*
Aikins, John Thomas	*Viroqua*
Anderson, Alex James	*Oregon*
Aschenbrener, Willard George	*Park Falls*
Ballhorn, Gordon Charles	*Bear Creek*
Bartlett, Harriet Dorothy	*Madison*
Beck, Howard Hubert	*Milwaukee*
Beckwith, Wayne Izor	*Cincinnati, Ohio*
Bennett, Charles Rathman	*Flandreau, S. Dak.*
Benson, Elmer Fred	*Clear Lake*
Benz, Karl John	*Canton, S. Dak.*
Bettendorf, Arthur Joseph	*St. Anne, Ill.*
Blair, Walter Borden	*Plainfield*
Blowney, Russell Page	*Waukegan, Ill.*
Boardman, Seymour Cook	*Milwaukee*
Boerke, Edison Morse	*Wausau*
Bolender, Joseph Bridge	*Monroe*
Bowers, Newton L.	*Rice Lake*
Brown, Earl Dow	*Madison*
Buckmaster, Dean Albert	*Kenosha*
Buckmaster, Sada Eleanor	*Madison*
Chamberlain, George Henry	*Milwaukee*
Chapman, Charles McCoy	*Madison*
Christensen, Anna Marie	*Racine*
Cohen, Fred	*Marinette*
Coit, Lew Garrison	*Hudson*
Conrad, Clifford Dewey	*Baldwin*
Cowie, Allen John	*Superior*
Cristy, Kenneth Earl	*Waupaca*
Cullen, Kenneth Arthur	*Peshtigo*
Curtin, John Leslie	*Madison*
Dahm, Irene Lancaster	*Madison*
Darrenougue, Raymond Sylvester	*Reesdburg*
Degerstedt, John Richard	*Barron*
Dickens, John Shannon	*La Crosse*
Dietzman, William Paul	*Richland Center*
Dix, Arno Viol	*Port Washington*
Donohue, Raymond Earl	*Tipton, Iowa*
Dorries, Charles Wetzel	*Buffalo, N. Y.*
Drew, Francis Leo	*McAlester, Okla.*
Drotning, Henry O.	*Stoughton*
Dunne, Newman Leo	*Cedarburg*
Edwards, Ethel Marie	*Marion*
Eggebrecht, Otto August	*Wausau*
Estvad, Ruth Christensen E.	*Madison*

Fairfield, Gordon Grey	*Green Bay*
Farrell, Carl William	*Sterling, Ill.*
Feddersen, Nels Christian	*Racine*
Fee, Archibald Hubert	*Superior*
Ferguson, Russell Owen	*Evansville, Ind.*
Fetter, Russell Manion	*Kendallville, Ind.*
Fischer, William G.	*Madison*
Fish, Marion Hesketh	*Chevy Chase, Md.*
Fitzgibbons, James Maurice	*Monroe*
Fox, Philip Gorder	*Waterloo*
Freese, Herbert George	*Sioux Falls, S. Dak.*
Fricker, William Henry	*Whitewater*
Frohbach, Harold Otto	*Medford, Ore.*
Grape, Leon Alvin	*Bruce, S. Dak.*
Grueneisen, Jesse Raymond	*Youngstown, Ohio*
Gutenkunst, Charles Albert Jr.	*Milwaukee*
Halperin, Herman Bernard	*Madison*
Halverson, Stener Benjamin	*Oregon*
Hankin, Harry	*Marinette*
Hardy, Earle William	*Waukesha*
Harrison, Kathleen	*Madison*
Haugan, Addison	*Beloit*
Hawley, William Emery	*Baldwin*
Heffernan, Martin Aloysius	*Caryville*
Heins, Marguerite Mabel	*Kiel*
Heseman, Earl John	*Evansville, Ind.*
Hirsheimer, Earl Spencer	*La Crosse*
Hodge, Hobart Valentine	*La Crosse*
Hoffman, Jennie Louise	*Madison*
Hofsoos, Emil	*Stevens Point*
Hollatz, Clarence Alexander	*Madison*
Holt, Norman Herbert	*Cambridge*
Holtz, Wilbur Edmund	*Columbus*
Hornaday, Howard Blair	*Madison*
Horton, Ralph	*Miles City, Mont.*
Hoyer, Frank Charles	*Manitowoc*
Jerg, Vera Luella	*Janesville*
Johnson, Norman Gustave	*Wausau*
Kellogg, Fred Conway	*Edgerton*
Kickhaefer, William Louis	*Milwaukee*
King, Clarence Albert	*Butte, Mont.*
Kletzien, Hobart Henry	*New Holstein*
Klug, Lylas Paul	*Merrill*
Klumb, Carl Edwin	*West Bend*
Knickel, William Dewey	*Campbellsport*
Kuehl, Frank William 1	*Fountain City*
Lamb, Harold Wadsworth	*Grand Rapids, Mich.*
Lampman, Harold Heath	*Clare, Mich.*
Larson, Milo Reese	*Madison*
Laun, Carl Henry	*Kiel*
Lehr, Albert Marks, Jr.	*Oklahoma City, Okla.*
Leland, Thomas William	*Oshkosh*
Leonhard, George Jacob, Jr.	*Marshfield*

Ley, Hilda Margaret	*De Pere*
Lindsay, Robert Brown	*Milwaukee*
Lins, Clemens Michael	*Spring Green*
Loewenthal, Richard Joseph	*Chicago, Ill.*
McCartney, Ernest Ray	*Milton*
McCullough, Leo James	*Fond du Lac*
McIver, Frazier Daniel	*Superior*
McKeague, John Jay	*Wautoma*
McKinnon, Stewart McLaren	*Superior*
McKone, Earl John	*Green Bay*
MacLaren, John Archibald	*Spooner*
McRae, Grace	*Rhinelander*
Maier, Victor Irwin	*Antigo*
Mann, Gustav Bruno	*Evansville, Ind.*
Manson, John Nicolls, Jr.	*Wausau*
Mattox, Ronald Clark	*Aurora, Ind.*
Mayo, Francis Peltier	*Spokane, Wash.*
Melcher, Burton Walters	*Madison*
Melvin, James Dewey	*La Harpe, Ill.*
Meyer, Harvey Gustave	*Madison*
Miller, Allen Hollis	*Cairo, Ill.*
Miller, Chester Joseph	*Milwaukee*
Mishelow, Edward David	*Milwaukee*
Morrissey, Lewis William	*Madison*
Myrland, Eiel Harmon	*Mauston*
Neisser, Walter Ralph	*Milwaukee*
Nelson, Arthur Tillman	*La Crosse*
Nelson, Dewey Vanard	*Darlington*
Newell, Lynn Fields	*Oshkosh*
Nolen, Herman Christian	*Muskegon, Mich.*
Olds, Helen Brunette	*Albany, Ill.*
Olesen, Julia Amanda	*Humboldt, Iowa*
Olson, Helen Isabel	*Madison*
Paine, Wendell Wyman	*Milwaukee*
Pantzer, Frederick Morris	*Sheboygan*
Peterman, William Fredrick, Jr.	*Merrill*
Petersen, Ralph Henry	*Milwaukee*
Peterson, Emory Jerome	*Scandinavia*
Porter, Paul Wood	*Madison*
Potter, James Keith	*Huron, S. Dak.*
Prochnow, Herbert Victor	*Wilton*
Ramsett, Clarence	*Viroqua*
Ramsey, Ronald West	*Rock Rapids, Ill.*
Ray, Charles Harold	*Milwaukee*
Rehberg, Harold Romaine	*Janesville*
Rietow, William Howard	*Sheboygan*
Roth, Helen Sophia	*Madison*
Royce, Henry Burnside	*Madison*
Russell, Ruth	*Great Bend, Kans.*
Rusterholz, Carl Henry	*Manitowoc*
Schaab, William Kenneth	*Auburn, Ind.*
Schaffner, Henrietta	*Mt. Pleasant, Iowa*
Schanen, Paul	*Stevens Point*

Schmidt, Arno John	*Davenport, Iowa*
Schmiege, Herbert John	*Appleton*
Schoeneberg, Edwin Arthur	*Wausau*
Schuette, Donald Hentscher	*Manitowoc*
Schwartz, Charles Floyd	*Sharon*
Schwenn, Bertha Jane	*Madison*
Seeber, Taylor Hayhurst	*Houghton, Mich.*
Seifert, Carl Julius	*Jefferson*
Sell, Vernon Wallis	*Reeseville*
Severson, Edwin Conrad	*Forestville*
Sherman, Howard Cole	*Grand Rapids, Mich.*
Silbernagel, Edward Godfrey	*Wausau*
Sinagub, Jacob Joseph	*Madison*
Sinaiko, Jacob Jay	*Madison*
Smith, David William	*Milton*
Smith, Don Wheeler	*Clinton, Iowa*
Smith, Giles Vance	*Indianapolis, Ind.*
Snow, William Patrick	*Ashland*
Soderberg, Lillian Marie	*Barron*
Sollie, Percy George	*Ashland*
Stamm, Walter Albert	*Dillon, Mont.*
Statz, Carolyn Agnes	*Madison*
Stout, Richard Harding	*Indianapolis, Ind.*
Strope, Loyd Morton	*Madison*
Sturtevant, Milton Francis	*St. Paul, Minn.*
Taylor, Arthur Chandler	*Sioux City, Iowa*
Teckmeyer, Adolph Otto	*Madison*
Theisen, George Dewey	*Green Bay*
Thompson, Helen Irene	*St. Croix Falls*
Tower, Earle Jasper	*Duluth, Minn.*
Travers, Wesley	*Port Washington*
Van Gent, Genevieve Philomena	*Madison*
Van Gent, Paul	*Madison*
Walker, Harland Bert	*Almond*
Walker, William Edward	*La Crosse*
Ward, Truman Lane	*Madison*
Weeks, Ralph Emon	*Sharon*
Weinke, Oscar Arnold	*Ripon*
Wilder, Lloyd Leonard	*Evansville*
Wilkinson, Anne Edna	*Spring Green*
Wipperman, Hildegard Amalia	*Shawano*
Wolfram, Herbert Edward	*Watertown*
Wood, George Emery s e	*Cottage Grove*
Woodhouse, Irving	*Bloomington*
Wright, Samuel Clough	*Winona, Minn.*
Yerly, Leona	*La Crosse*

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Course for Normal Graduates

Ashbrook, Esther Fern	*Madison*
Bale, Jeanette Gratiot	*Galena, Ill.*
Bale, Mary Gratiot s e	*Galena, Ill.*
Bohan, Helen Margaret	*Avoca*

Bonzelet, Gertrude Louise	*Madison*
Boyce, Ella Reynolds	*De Kalb, Ill.*
Bundy, Margaret Annette	*Menomonie*
Currie, Agnes Ann	*Superior*
Davies, Dora May	*Oshkosh*
Enckhausen, Ruth	*La Crosse*
Feldmann, Hans Adolph	*Milwaukee*
Henry, William Benjamin	*Oconto Falls*
Hinterberg, Edward Herman s e	*Madison*
Hollis, Lillian Ruth s e	*Chicago, Ill.*
Hopkins, Viola Elizabeth B. s e	*Madison*
Johnson, Helen Sophia	*Woodville*
Lindegren, Alina Marie	*Superior*
Marshall, Harold William s e	*Madison*
Morrill, Lester M. s e	*Madison*
Murray, Alice Una s e	*Superior*
Patten, Everett Frank s e	*Chicago, Ill.*
Pollock, Howard Edward	*Milwaukee*
Postel, Harold Hans s e	*Milwaukee*
Quade, Alice Augusta	*Waterloo*
Reichle, Theresa Margaret s e	*Plains, Mont.*
Riehm, Lenual Smith s e	*White Pigeon, Mich.*
Rolfe, Jean Francis s e	*La Farge*
Rudie, Neil Hjalmer s e	*Westby*
Smith, Guy Harold s e	*La Farge*
Struck, Louis Alfred s e	*Onalaska*
Thompson, Dorothy Margerite s e	*Madison*
Wilson, Katharine Martha	*Superior*
Zarling, Esther Bertha	*Milwaukee*

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Course in Chemistry

Baechler, Roy Herman	*Fountain City*
Baernstein, Harry Daniel	*Racine*
Harwood, Kenneth John	*Merrill*
Herreid, Myron Tillman	*Blair*
Jung, Clarence Schram	*Milwaukee*
Lamm, Vincent Peter	*Milwaukee*
Liebe, Henriette Christene	*Stoughton*
Liskovec, Joseph John	*La Crosse*
Lueck, Herbert John	*Merrill*
Lyons, George Barber	*Brodhead*
McCollum, Edgar De Bolt	*Downers Grove, Ill.*
Meloche, Villiers Willson	*Madison*
Ramsdell, Guy Arthur	*Marion*
Schmidt, Emil Gustave	*Osceola*
Schmidt, Ray Otto	*Davenport, Iowa*
Sehon, Miss George Louise	*Louisville, Ky.*
Stevens, Henry	*St. Albans, Vt.*
Teigen, Arthur Henry	*Minneapolis, Minn.*
Voit, Bertha A.	*Milwaukee*

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Course in Journalism

Allen, Lurah Blanche	*Madison*	
Baker, John Gower	*St. Croix Falls*	
Beebe, Katherine Naudain	*Kansas City, Mo.*	
Borland, Lois Bertha	*Scranton, Kans.*	
Bugbee, Isabella Curtis	*Indianapolis, Ind.*	
Comstock, William Thurston	*Oconto*	
Coulter, Gerald Robert	*Sutherland, Iowa*	
Crook, Dorothy Dee	*Madison*	
Crosby, Marion Pennell	*Rhinelander*	
Dennis, Henry Charles	*Cortland, N. Y.*	
Doherty, Marguerite Eleanor	*Williamsburg, Iowa*	
Edwards, Eugene Theodore	*La Crosse*	
Gifford, Glen Holley	*Madison*	
Gilbert Judith Ann	*Nevada, Mo.*	
Gill, Grace Irene	*Sioux City, Iowa*	
Goerlitz, Frederic Omar	*Sheboygan*	
Holmes, Paul Allen	*Milton*	
Kwei, Chung Shu	*Kaihsien, China*	
Lincoln, Alice Edythe	*Chicago, Ill.*	
Look, Walter Otto	*South Kaukauna*	
Lyman, Carson Fitch	*Madison*	
McBride, Dorotha Jean	*Sawtelle, Calif.*	
Maedje, Carl Waldemar	*East Cleveland, Ohio*	
Mickelson, Roland Alvin	*Racine*	
Morgan, Beatrice Mareguita	*Walcott, N. Dak.*	
Murphy, Ellida	*Berlin*	
Murphy, Lawrence William s e	*Madison*	
Nafziger, Ralph Otto	*Benton Harbor, Mich.*	
Noll, Agnes Louise	*Marshfield*	
Nusbaum, Mildred Alice	*Richmond, Ind.*	
Plumb, Eugenia Langson	*Milwaukee*	
Quarberg, Lincoln Andrew	*Mondovi*	
Ream, Dorothy Hope	*Cleveland, Ohio*	
Regli, Adolph Casper	*Eau Claire*	
Rummel, Frieda Laura	*Cincinnati, Ohio*	
Sperry, Frederick Lewis	*Oak Park, Ill.*	
Stewart, Beth Ardis	*Cedar Rapids, Iowa*	
Van Wagoner, Esther Ellen	*Pontiac, Mich.*	
Welsh, Rodney Costello l	*Madison*	
West, Helen Briggs	*Oshkosh*	
Wigder, Benjamin	*Milwaukee*	41

General Course

Beste, Curtis Francis	*Mosinee*
Cunningham, Lawrence Eugene, Jr.	*Beloit*
Field, Maurice Eugene	*Rice Lake*
Florea, William Bowman	*New York, N. Y.*
Hohmann, Frederick Ralph	*Milwaukee*
Knapp, Edwin J. s e	*Hales Corners*
Krause, Clarence Carl s e	*Milwaukee*
Perstein, Isadore Arnold	*Madison*

Petrie, Hazen Hill	*Madison*	
Smith, Frood Paul s e	*Dodgeville*	
Stark, Howard Bailey	*Milwaukee*	11

Juniors

Abaly, Mae Estella	*Madison*
Adams, Adelaide Marion	*Oak Park, Ill.*
Adolphson, Svea Matilda	*Edgerton*
Alexander, Ruth	*Madison*
Allen, Julia Christian	*Chicago, Ill.*
Anderson, Adelaide Julia	*McFarland*
Anderson, Alice May	*Eau Claire*
Anderson, Gaylord Eugene	*Kankakee, Ill.*
Anderson, Perry George	*Edgerton*
Anderson, Vera Clara	*Ashland*
Ascano, Antonio Francisco s e	*Tuguegarao, Cagayau, P. I.*
Aten, Helen Harper	*Madison*
Atwood, John Thomas	*Gays Mills*
Aultman, Edith Hickok	*Camp Dix, N. J.*
Axtell, Dorothy Marie s e	*Evansville*
Babcock, John Davis	*Neenah*
Babcock, Mary Ruth	*Milwaukee*
Bagley, Eleanor Opal s e	*Cambridge*
Baird, Katharine Howard	*Jeffersonville, Ind.*
Baker, Gertrude Margaret s e	*Dorchester, Mass.*
Baragwanath, Cecil Helene	*Madison*
Barnes, Arthur Edward	*Madison*
Barney, Tyler Davis	*Sparta*
Bartholf, Katherine	*Glencoe, Ill.*
Barton, Alice Gwendolyn	*Albany*
Barton, Helen Margaret s e	*Ypsilanti, Mich.*
Batz, Muriel Catherine s e	*Sun Prairie*
Bauer, Lawrence Hahn	*Chicago, Ill.*
Bauman, George Alexander	*Oshkosh*
Beardsley, George Lee	*Westcliff, Colo.*
Beattie, Minnie Dunn	*Memphis, Tenn.*
Becker, Samuel	*Milwaukee*
Beebe, Elizabeth	*Sparta*
Beebe, Margaret	*Sparta*
Beecher, Frances Marie	*Peoria, Ill.*
Bennett, Elizabeth Barbara s e	*Viroqua*
Bennett, Margaret Louise	*Twin Falls, Idaho*
Berge, Abel John	*Deerfield*
Bergeman, Melbourne	*Pueblo, Colo.*
Beust, Nora	*La Crosse*
Bianco, Tony Joseph m	*Spooner*
Bilstad, Gwendolyn Warne s e	*Cambridge*
Bingham, Florence Arnold	*Junction City, Kans.*
Bishop, Florence Marian	*Arcadia*
Blakeley, Mildred Lucile s e	*Evansville*
Blatter, Erwin Walter m	*La Crosse*
Blinston, Ruth Mary	*Madison*

Bloodgood, David Wheeler	*Milwaukee*
Bloodgood, Francis Joseph	*Milwaukee*
Blount, John Gray m	*Madison*
Blum, George Louis	*Eau Claire*
Bodden, Flora Jeanette	*Neenah*
Boesch, Marjorie May	*Burlington, Iowa*
Bollenbeck, Marcella Kathryne	*Madison*
Bond, Eugene Ayres	*Ruxton, Md.*
Borchers, Irma Theresa	*Madison*
Bowles, John Herschel m	*Sheldon, Ill.*
Boyce, Lloyd Merrill	*Milwaukee*
Breen, Edward Joseph	*Fort Dodge, Iowa*
Breese, Gertrude Elizabeth	*Waukesha*
Bridgman, Harriet	*Shirley, Mass.*
Brink, Mildred Helen	*Grand Rapids, Mich.*
Brown, Clarence Baxter m	*Highland*
Brown, Edward Dexter	*Rhinelander*
Brown, Grace Sara	*Kansas City, Mo.*
Brown, Susan De Laite	*Chicago, Ill.*
Brownell, Mary Alice s e	*Madison*
Brownrigg, Clara A.	*Merrimac*
Bruegger, Harry Walter	*Berlin*
Bryan, Samuel	*Memphis, Tenn.*
Buell, Martha Merry	*Madison*
Burrows, Marian Elizabeth	*Warren, Ill.*
Burwell, Consuelo	*Madison*
Busby, Allen Joseph	*Milwaukee*
Busby, Fern Mae s e	*Arcadia*
Bussey, Frederick Newton m	*Chicago, Ill.*
Buswell, Irma s e	*Kendall*
Buttweiler, Miriam Thayer	*Indianapolis, Ind.*
Cance, Gladys Fern s e	*Madison*
Cappon, Lester Jesse	*Milwaukee*
Carberry, Wells Francis	*Milwaukee*
Carter, Lorrayne	*Chetek*
Carter, Warren Tuttle s e	*Madison*
Casey, Aileen Margaret	*Oconomowoc*
Casserly, Raymond James	*Madison*
Cauley, James Byrne	*Chicago, Ill.*
Chadbourn, Reuben Cornwell	*Columbus*
Chamberlain, Joseph Nourse	*Des Moines, Iowa*
Chao, Henry Hsueh-Hai	*Wusih, China*
Chapman, Dorothy Dee	*Milwaukee*
Chase, Helen Davison	*Clinton, Iowa*
Chen, Tsung	*Foochow, China*
Church, Carl Adelbert	*Madison*
Clark, Loran Simeon	*Plainfield*
Clark, Marion Eugene m	*Indianapolis, Ind.*
Clasmann, Cora Marie	*Milwaukee*
Cloyd, Mildred Jeanette s e	*Danville, Ill.*
Collins, Mary Helen	*Darlington*
Collins, William Kinney	*Madison*
Collipp, William Fulton	*Portage*

Colman, Julia	*La Crosse*
Conklin, Virginia Theresa	*Madison*
Conlee, Carolyn Evelyn	*Madison*
Conlee, Ruth Isabelle	*Madison*
Conley, Rollin Morris m	*Bristol, S. Dak.*
Connor, Richard Malcolm	*Marshfield*
Conway, Margaret Irene	*Colby*
Conway, Mary Anna Florence	*Antigo*
Coon, Gaylord Palmer m	*Madison*
Copeland, Doris Laurine	*Evansville*
Copeland, Herbert Faulkner	*Chico, Calif.*
Corley, Martha Eva	*Adams, Nebr.*
Correll, Ellen Fredericka	*Memphis, Tenn.*
Couch, Timothy Tallman m	*West Allis*
Coxon, Robert Gregg s e	*Madison*
Coxon, Thomas Turneau	*Madison*
Crabtree, Rodger Cooke	*Milwaukee*
Craven, Mary	*Washington, D. C.*
Cray, Margaret Clark	*Lime Springs, Iowa*
Cremer, Dorothy Rita	*Red Wing, Minn.*
Crounse, Dorothy	*Glen Ellyn, Ill.*
Cullmann, Ceona Dorothy	*West Salem*
Cummings, Sarah Sheldon	*Marquette, Mich.*
Currie, Eleanor Elizabeth	*Duluth, Minn.*
Daley, Alvin Edward	*Mt. Horeb*
Damon, Kenneth Finch s e	*Spokane, Wash.*
Darnstaedt, Herman Lester	*Racine*
Dauksys, Joseph m	*Madison*
Davis, James Bon Durant m	*Marinette*
Dawson, Harriet Ione	*La Crosse*
Day, Eula Elizabeth s e	*Cleveland, Ohio*
Degan, Grace Anne	*Baraboo*
De la Hunt, Jane Allcott	*Milwaukee*
Dellinger, John Grant	*Madison*
Dietrich, Dayis Mansfield s e	*Superior*
Dippel, Alma Lydia	*North Freedom*
Doan, Miriam	*Duluth, Minn.*
Doerr, Dorothy Anne	*Mt. Vernon, Ind.*
Donnelly, James Armon	*Oshkosh*
Double, Helen	*Los Angeles, Cal.*
Dougherty, Lawrence Vaughn	*Eau Claire*
Doyle, Chauncey James m	*Milwaukee*
Drake, Frances E. s e	*Mason City, Iowa*
Dreiblatt, Martha	*Brooklyn, N. Y.*
Dresden, Marie	*Ladysmith*
Duckett, Margaret Hildreth	*Boston, Mass.*
Dwight, Dorothy Marguerite s e	*Madison*
Dye, William Joseph Paul	*Sisterville, W. Va.*
Eagleburger, Leon Sidney	*Stevens Point*
Ebert, Reinhold Otto	*Marion*
Ehrman, Wilhelmina	*Oak Park, Ill.*
Eleston, Mary Rose	*Madison*
Ellis, June Ethyle	*Madison*

Ellis, William Burton	*Chicago, Ill.*
Ely, Katherine Gordon s e	*Madison*
Eschweiler, Elaine Katharine	*Madison*
Espinosa, Carmer Gertrude	*Albuquerque, N. Mex.*
Ewald, Edith Vivien s e	*Mt. Carmel, Ill.*
Ewing, Albert Button	*Louisville, Ky.*
Ewing, Edward Alvord	*New Haven, Conn.*
Fagan, Robert Alvin m	*Milwaukee*
Farrington, Frances Crane	*Honolulu, Hawaii*
Fee, Marie Antoinette s e	*Superior*
Fehland, Harold Roland m	*Merrill*
Fellows, Frank Samuelson	*Algoma*
Felts, Genevieve Amelia	*Carbondale, Ill.*
Fiedler, Ralph Oliver	*Milwaukee*
Field, Blanche Knippenberg	*Racine*
Finney, Marie s e	*Madison*
Fischedick, Paul Julius	*Milwaukee*
Fish, Hazel Mary s e	*Cleveland, Ohio*
Fish, Marjorie Elizabeth s e	*Cleveland, Ohio*
Fitch, Logan Dallas	*Madison*
Fitz Gibbon, Helen Claire s e	*Madison*
Forsbeck, Filip Carolus m	*Milwaukee*
Forthal, Sonya s e	*Cleveland, Ohio*
Foshion, Herbert Victor m	*Brussells*
Fox, Matie Dorothy	*Waterloo*
Fox, Raymond Walter	*Waterloo*
Foxon, Fern Iola s e	*Northampton, Mass.*
Fraser, Marjorie Wells	*Madison*
Frazer, Gladys Lucile	*Evanston, Ill.*
Frederick, Harry Yoman	*Westfield*
Freitag, Veronica m	*New Glarus*
Fries, Mary Fredonia s e	*Richland Center*
Fritsche, Louise Catherine	*New Ulm, Minn.*
Fronk, Joseph Edward s e	*Mishicot*
Gale, Julia Lovette	*Oak Park, Ill.*
Gallagher, Sarah Dean	*Wilmette, Ill.*
Gardiner, Edith Marion	*Edgerton*
Gardner, Helen Charlotte	*Huron, S. Dak.*
Gardner, Irene Gladys s e	*Ashland*
Gasser, John Jacob m	*Chicago, Ill.*
Gasul, Benjamin Morris m	*Kenosha*
Gaterman, Freda Margaret	*Manitowoc*
Gatterdam, Paul Christoffers m	*La Crosse*
Gerritts, John Roberts	*Little Chute*
Gilbert, Corinthia s e	*Nevada, Mo.*
Gilbert, Ida Grace	*Oklahoma City, Okla.*
Gile, Nyria Venice	*Edgerton*
Gilmore, Edward Stephens	*Delavan*
Giryotas, Emelia Josephine	*Cicero, Ill.*
Gleason, Joseph Baird, Jr.	*Madison*
Gnagi, Will Bender m	*Monroe*
Goo, Mabel Sue Fung	*Honolulu, Hawaii*
Goodell, Alice Maud	*Monroe*

Gormley, Margaret	*Spokane, Wash.*
Gotfredson, Roy Charles	*Green Bay*
Gould, Stevens	*Oshkosh*
Graves, Helen Bryan s e	*Viroqua*
Graves, Marian Grace	*Harlan, Iowa*
Gray, Elizabeth Agnes	*Duluth, Minn.*
Green, Margaret Thorp	*Council Bluffs, Iowa*
Greenspon, Jennie	*Appleton*
Gregg, Ashton Carter	*Decorah, Iowa*
Gregg, Dorothy Louise	*Kalamazoo, Mich.*
Gregory, Lawrence William m	*Valders*
Grimes, Helen Katherine	*Des Moines, Iowa*
Groth, Alva Emma	*Jackson*
Guerini, Esther Teresa	*Middleboro, Mass.*
Guyer, Edwin Michael Cooley	*Madison*
Haas, Helen Louise	*Oregon, Ill.*
Halden, Elizabeth	*Duluth, Minn.*
Hales, Ellen Barbara	*Mineral Point*
Hamilton, Laura Marie	*Whitewater*
Hammond, Reginald Wilmot m	*Manitowoc*
Handran, Ethelyn Anne	*Waterford*
Hanley, Catherine Irmena s e	*Madison*
Hanlon, Harvey s e	*Plymouth*
Hannon, Theodore Richard	*Sturgeon Bay*
Hansen, Adolph M. m	*Oregon*
Hargan, James	*Madison, Ind.*
Harman, Hubert Fish m	*Sparta*
Harman, John Claire m	*Sparta*
Hart, Milton Russell	*Milwaukee*
Hartlett, Elvin Mann m	*Germantown, Pa.*
Harville, Clifford Henry m	*Eau Claire*
Haskins, Gladys Marjorie	*Madison*
Hastings, Minnetta Annie	*Madison*
Hastings, Edith Amy	*Kenosha*
Haugen, William Emmert	*Hudson*
Hausmann, Millie Louise	*Madison*
Hawks, Ralph Eli	*Horicon*
Hayes, Ramona Sarah	*Madison*
Heagle, Dorothy Mae s e	*Green Bay*
Hecker, Marjorie	*Ft. Wayne, Ind.*
Heidner, Frederick Carl m	*West Bend*
Heim, Marie Theresa	*Madison*
Heindel, Betty Mae	*Kenosha*
Hennel, Norma Lillian	*Koshocton, Ohio*
Hendricks, Lydia Anne	*Tomah*
Henry, Thelma Mae	*Davenport, Iowa*
Herreid, Borghild Theodora	*Madison*
Herron, Lucille Beatrice	*Milwaukee*
Hess, James Samuel m	*Mauston*
Hill, Harold Douglas	*Milwaukee*
Hintz, David Herman m	*Almond*
Hipple, Marietta s e	*Madison*
Hirsig, Herron Albert	*Mt. Horeb*

Hirsig, Pearl Theodosia	*Mt. Horeb*
Hoffman, Ruth Emma s e	*Milwaukee*
Hogan, Edith Margaret	*Superior*
Holbrook, Joseph Carleton	*Okmulgee, Okla.*
Holcombe, Robert Lyndon	*Madison*
Holford, Eunice Uberta	*Cassville*
Holzer, Janet Eunice	*Milwaukee*
Hooper, Catherine Seaton	*Janesville*
Hooper, Helen	*Oshkosh*
Hoppe, Erich Otto	*Platteville*
Hoppenyan, Margaret Mary	*Ashland*
Hornaday, Sarah Josephine	*Indianapolis, Ind.*
Hornback, George Allen	*Hannibal, Mo.*
Holton, Alfred Dwight	*River Forest, Ill.*
Hovland, Frank Carl	*Bloomer*
Howe, Cecelia Anne s e	*Darlington*
Hubbard, Warren Sydney	*Shabbona, Ill.*
Hubbell, Roy Manning	*Madison, S. Dak.*
Hudson, Robert James m	*Madison*
Hugunin, Marjorie Roberta	*Janesville*
Huhn, Natalie Theodora w l s	*Oshkosh*
Humphrey, Ethel Elizabeth	*Northfield*
Humphrey, Mary Elizabeth	*Watertown*
Ingwersen, Jennette	*Chicago Ill.*
Jacobson, Edna Louise	*La Crosse*
Jamieson, George Harold	*Lone Rock*
Janisch, William Jennings Bryan	*Waterloo*
Jewell, Matilda Mitchell	*Grand Rapids, Mich.*
Jobson, Ellen Clair	*Danville, Ill.*
John, Lillian	*Milwaukee*
Johnson, Edward Wallace	*Hancock*
Johnson, Elizabeth Mary s e	*Superior*
Johnson, Stella Cornelia	*Eau Claire*
Jones, Enos Gray	*Sioux Falls, S. Dak.*
Jones, John Paul	*Milwaukee*
Jones, Katharine Gwendolyn	*Madison*
Jordan, John Alois	*Antigo*
Jorgenson, Louise Margaret s e	*Racine*
Kaems, Lester Lincoln s e	*Manitowoc*
Kallio, Marie	*Finlayson, Minn.*
Kan, Chia-Hon	*Shanghai, China*
Kasbeer, Helen Harriett	*Normal, Ill.*
Kastlin, George Jacob m	*La Crosse*
Kato, Masuo	*Nagoya, Japan*
Kaufman, Abraham s e	*New York City*
Kay, Carolyn Cantine	*Alliance, Ohio*
Keefer, Laura Belle	*Sterling, Ill.*
Keeley, Helen Marie s e	*Mayville*
Kellogg, Horace Banter	*Antigo*
Kelsey, Carl Hammond m	*Stevens Point*
Kenney, Elizabeth Jane	*Palo Alto, Cal.*
Kenseth, Selvida Gertrude	*Cambridge*
Kieckhefer, Norma Helen	*Milwaukee*

Kiland, Inger Andrea	*Madison*
Kilgour, Jean Wallace	*La Grange, Ill.*
Kimball, Dean Prichard	*Janesville*
Kinne, Helen Susan	*Orofino, Idaho*
Kitchin, Katherine Ardelia	*Chicago, Ill.*
Kleist, Gloria B.	*Milwaukee*
Klosterman, Erna Henrietta	*Shawano*
Kneer, Bertha Barbara	*Eau Claire*
Knowlan, Viola Marie s e	*Green Bay*
Knudson, Arthur Hackel m	*Brooklyn*
Knudson, Ruth Odena	*La Crosse*
Koelsch, Dorothy	*Boise, Idaho*
Kohl, Leo Henry	*Marshfield*
Kolitsch, Louis Joseph	*Appleton*
Koppke, Ruth Josephine s e	*Madison*
Kraege, Fredrick Halsey l	*Madison*
Krauskopf, Ruth	*Milwaukee*
Kriewaldt, Martin Rudolph l	*Shawano*
Krohn, Bessie Edna	*Lancaster*
Krome, Hannah s e	*Milwaukee*
Kroner, Julia Isabelle	*La Crosse*
Kuchaeman, Norman Albert	*Moline, Ill.*
Kuenzli, David Benjamin l	*Milwaukee*
Lahman, John Harold	*Franklin Grove, Ill.*
Laird, Harold Remington	*Madison*
Lampton, Adine Terrell	*Jackson, Miss.*
Langerude, Harold Curtis	*Spooner*
Langstadt, Lucille Lena	*Appleton*
Laughlin, Harold Donald	*Oshkosh*
Lautenbach, George Robert	*Weyauwega*
Laylin, Ruth Hathaway	*Norwalk, Ohio*
Leach, Paul Howard	*Joliet, Ill.*
Leary, Susan Evelyn	*Oak Park, Ill.*
Lee, Edward Noble	*Chicago, Ill.*
Lee, Lih-Fau	*Shanghai, China*
Lehmann, Jane Schrumpf	*Madison*
Letcher, Gwendolyn Muriel	*Madison*
Levitin, Nadia	*Madison*
Lewis, Lorna Lucille	*Oshkosh*
Lightfoot, Lester Roderick m	*Cloquet, Minn.*
Linden, Gabriel Eric	*Madison*
Lindsten, Esther Merwyn	*Chicago, Ill.*
Lingenfelter, John Samuel	*Butte, Mont.*
Loeffler, Alice Vida s e	*Armour, S. Dak.*
Longstaff, John Walter	*Huron, S. Dak.*
Loomer, Harlan Gilbert	*Madison*
Lovell, Doris Maxine s e	*Fargo, N. Dak.*
Low, Florence Henrietta	*La Porte, Ind.*
Lowth, Robert John m	*Columbus*
Luce, Lester Oliver m	*Eau Claire*
Luck, Charles Carlton m	*San Marcos, Tex.*
Lund, Alf	*Eau Claire*
Lund, Burton Gaynor	*Racine*

Lunde, Alert Johannes	*Hartland, Minn.*
Lutz, Oneita	*Sheboygan*
Lyman, Auta Eveline	*Madison*
McCaslin, Margaret Isabel	*East Cleveland, Ohio*
McChristy, Mary May	*Dodge City, Kans.*
McDiarmid, Ada Winifred	*Burkhardt*
McDowell, Margaret Esther	*Milwaukee*
McDowell, Mary Kathleen	*Robinson, Ill.*
McFarland, Gladys Mae	*Fredericksburg, Iowa*
McGary, Lester m	*Norwalk*
McGuire, Harry Joseph m	*Waunakee*
McKay, Marjorie Belle	*Waterford, Pa.*
McKee, Janette Joe	*Phillips*
McKellar, Jessie Mae s e	*Blanchardville*
McKenzie, Helen Natalie s e	*Kenosha*
McKinley, Edwin Daniel	*Dodgeville*
McKone, Fern Marie s e	*Green Bay*
McLemore, Mildred Cornelia s e	*Nevada, Mo.*
McNeil, Helen	*Virginia, Minn.*
Mac Queen, William Blair	*Oconto*
Madsen, Mars Laurice m	*Viborg, S. Dak.*
Madsen, Violet Hansa	*Oregon*
Maher, Beatrice m	*Kalamazoo, Mich.*
Mahler, Anita Ida	*Milwaukee*
Mahoney, David John	*Fond du Lac*
Mailer, Andrew Robert m	*Madison*
Malmin, Esther Alice s e	*Blue Earth, Minn.*
Maltpress, Seymour Lee	*Rockford, Ill.*
Mandelker, Martin	*Milwaukee*
Mar, Severo Francisco m	*Tampico, Mexico*
Martens, George Herbert s e	*Coleman*
Martini, Margarete Katherine	*Madison*
Marvin, Arthur Donald	*Beaver Dam*
Mather, Doris Harriette s e	*Ladysmith*
Maxwell, Mary Wilson s e	*Marshalltown, Iowa*
Mead, Lela Todd	*Shell Lake*
Meid, Marie Agnes	*Indianapolis, Ind.*
Meisnest, Leila Amelia s e	*Branch*
Melcher, Louis Chester	*Madison*
Mendenhall, Catherine	*Sheldon, Ill.*
Meyer, Catherine Marie	*Oak Park, Ill.*
Meyer, Frieda Annemarie	*Milwaukee*
Meyers, Grace Margery s e	*Belvidere, Ill.*
Meyers, Helen Amanda s e	*Evansville*
Miller, Adelaide Henrietta s e	*Madison*
Miller, Eva	*Milwaukee*
Miller, Mary Noreene	*Lebanon, Ind.*
Miller, Maude Mildred	*Markesan*
Mitchell, Alice Catherine	*Fargo, N. Dak.*
Moe, Ralph Ray	*Duluth, Minn.*
Moeck, Arthur Henry	*Milwaukee*
Molander, Edith Marie s e	*Marinette*
Moon, John Frank m	*Rosendale*

Morgan, Jane Doris	*Kansas City, Mo.*
Morrasy, Esther Mary	*Sheffield, Ill.*
Morris, Gertrude Lenore	*Cambria*
Morse, Beatrice Gertrude	*Fond du Lac*
Mossman, Sybil Claire	*Huntington, W. Va.*
Mountin, William John	*Hartford*
Muldowney, Fenton Richard	*Highland*
Mulrooney, Elizabeth Mary	*Bloomington*
Murphy, Donald Bates	*Peoria, Ill.*
Murphy, William John	*Chilton*
Neidig, Verna True	*Plankinton, S. Dak.*
Nelson, Gordon Edward	*Superior*
Nethercott, Audrey Margaret	*Superior*
Nichols, Guerdon David	*Iowa Falls, Iowa*
Nodine, Vera Alberta	*Waterloo, Ind.*
Norem, Lawrence Everett	*Milwaukee*
Nusbaum, Juliet Amelia	*Richmond, Ind.*
Nyhus, Walter Edmund	*Chippewa Falls*
Oakes, Alice Elizabeth s e	*Canton, Ohio*
Ochsner, Julia Dorothy	*New Orleans, La.*
Ohlson, Guy Edward m	*La Crosse*
O'Hora, James Timothy m	*Mazomanie*
O'Keefe, Margaret Mary	*Waunakee*
Olson, Mildred Karen	*Madison*
Olson, Valerie Estelle	*Racine*
O'Malley, Charlotte Mary	*Madison*
O'Neil, Philip Edward	*Cloquet, Minn.*
Osborn, Chandler	*Oshkosh*
Osgood, Carroll Wilcox m	*Windsor*
Ozanne, Herbert Kellogg	*Oshkosh*
Parker, George Macdonald	*St. Louis, Mo.*
Parson, Eleanor	*De Kalb, Ill.*
Pasch, Lester Adolph	*Milwaukee*
Payne, Wilfred Gladstone	*Wauwatosa*
Pearson, Dorothy Louise	*Upper Montclair, N. J.*
Perkins, Persis Allen	*Colorado Springs, Colo.*
Perlman, Henry Bernard	*Madison*
Perrigo, Harold William	*Oshkosh*
Petermann, Leila Henrietta	*Merrill*
Peters, Donald Edward	*Waterloo*
Peterson, Dorothy Sophie	*Stockholm*
Peterson, Laura Cecelia	*Stockholm*
Peterson, Lyndle Wilson m	*Shawano*
Peterson, Mary Marquardt	*Madison*
Phillips, Bertha Florence s e	*Sioux Falls, S. Dak.*
Phillips, Lyle Graham m	*De Pere*
Pierce, Melvin Charles	*La Crosse*
Pinney, Martha May	*Sturgeon Bay*
Pohle, Genevieve A. s e	*Madison*
Pope, Margaret Isabel s e	*Pewaukee*
Porter, Catherine Alice s e	*Madison*
Potter, Frances Mortimer	*Detroit, Mich.*
Prince, Jean Trezona s e	*Coleraine, Minn.*

Puestow, Charles Bernard	*Oshkosh*
Purnell, William Henry	*Kenosha*
Rall, Helen Doris s e	*Toledo, Ohio*
Ray, Dorothy Margaret	*Madison*
Reagan, Mary Marcelia	*Knightstown, Ind.*
Rebuschatis, Marion	*Washington, D. C.*
Reid, Ruth Elizabeth	*Hurley*
Reilly, Lucile Agnes	*Fond du Lac*
Reinertsen, Vivian Mary	*Milwaukee*
Reinking, John Juergen	*Madison*
Reitan, Rudolph Norman	*Bonduel*
Rigdon, Frances Maude	*Wabash, Ind.*
Roach, Mary Virginia s e	*Minneapolis, Minn.*
Roberts, Carol Aletta s e	*Wild Rose*
Rock, Helen Louise	*Superior*
Rockwell, Katherine Edith	*Oshkosh*
Roddy, Rhea Goodson	*Forney, Tex.*
Romig, Ruth Evangeline	*Madison*
Rose, Bertha Elizabeth	*Rossville, Ind.*
Rosenberry Katherine	*Madison*
Rounseville, Doris Marie	*Milwaukee*
Ruedebusch, Clara Cora	*Mayville*
Rydjord, John	*Lily, S. Dak.*
Sale, William Merritt	*Louisville, Ky.*
Sammis, Josephine Louise	*Madison*
Sammis, Malvena Elizabeth	*Madison*
Sandy, Mary Allen	*Madison*
Saris, Lucile Alicia	*Beloit*
Sattre, Jane Marion	*Rice Lake*
Saunders, George Murdock	*Superior*
Scheen, Hjoerdis Virginia	*Princeton, Minn.*
Schleman, Herbert Spencer	*Valparaiso, Ind.*
Schmidt, Dorothea Marguerite s e	*Freeport, Ill.*
Schmidt, Faye Ellis	*Madison*
Schneider, Charles Samuel m	*Milwaukee*
Schmittger, Margaret Adelaide	*Superior*
Schoen, Walter Renold m	*Green Bay*
Scholten, Adrian Herman	*Valley Springs, S. Dak.*
Schramm, Frank Higgason	*Burlington, Iowa*
Schweiger, Leo Joseph m	*Cashton*
Schweizer, Caroline	*La Crosse*
Schwentker, James Milton	*Evansville, Ind.*
Schwinn, Walter Kelly	*Red Oak, Iowa*
Scott, Ralph Vernon	*Hardin, Mont.*
Sehon, Elizabeth Lewis s e	*Louisville, Ky.*
Seymour, Helen Louise	*Reedsburg*
Shaner, Dorothy Romaine	*Philadelphia, Pa.*
Shao, Chia Lin	*Shanghai, China*
Shao, Yuan Chong	*Shanghai, China*
Shearer, Eleanor Constance s e	*Madison*
Shockey, Franklin Perry	*Oak Park, Ill.*
Sibilsky, Carl Edward	*Algoma*
Sims, Leslie Clinton	*Rice Lake*

Sinaiko, Herman Louis	*Madison*
Smart, Dorothy Hathaway	*Davenport, Iowa*
Smedal, Erling Arnold m	*McFarland*
Smith, Edna Louise	*Madison*
Smith, Mildred McCune	*Superior*
Snashall Hylva Evelyn s e	*Janesville*
Sneider, Elmer Frank	*Sheboygan*
Snow, Ina Mabel	*Ottawa, Ill.*
Solon, Elaine Katherine	*Superior*
Sorenson, Roy	*Milwaukee*
Speed, Eugenia Layton	*Monroe, La.*
Spence, Ralph Beckett s e	*La Crosse*
Spenseley, Alice Lila	*Madison*
Spiker, Irene s e	*Gary, Ind.*
Stalker, Dan Norman s e	*Toledo, Ohio*
Stearns, Dana Preston m	*Mason City, Iowa*
Steeholm, Hardy	*Madison*
Steidtmann, Waldo Edward	*Sauk City*
Stephenson, Edwin Ambrose	*Muncie, Ind.*
Steven, Isabel Ellen	*Glenwood City*
Stockdale, Ethal Wagner	*Milwaukee*
Streitz, Ruth s e	*N. Platte, Nebr.*
Strong, Katherine	*Canton, Ill.*
Stroup, Helen Gladys	*Grand Rapids, Mich.*
Suhr, Alfred Louis m	*Milwaukee*
Sullivan, Veronica Mary s e	*Oshkosh*
Sumner, Dorothy Dunning	*Madison*
Sumption, Dorothy s e	*Kendallville, Ind.*
Sundt, Guy Merrill s e	*Stoughton*
Swartz, Miriam Aileen	*Gary, Ind.*
Swetil, Ellen Marion s e	*Milwaukee*
Sygman, Samuel	*Two Rivers*
Talbot, Harry Elno m	*Milton*
Tangney, Homer Francis	*Kilbourn*
Taylor, Claire	*Geerwood, Minn.*
Taylor, Harold Westlake	*Indianoplis, Ind.*
Terrell, Frances Ellen	*Indianapolis, Ind.*
Thomas, Charles Archibald	*La Crosse*
Thomas, Marjorie s e	*Appleton*
Thomas, Warren Stratman	*Dodgeville*
Thompson, Gilmore Alfred s e	*Mt. Horeb*
Thompson, John X.	*Madison*
Thompson, Stuart Edward	*Neenah*
Throne, Mildred Irene	*Cullum, Ill.*
Thun, Margaret Emelia	*Wyomissing, Pa.*
Todd, Marjorie s e	*St. Louis, Mo.*
Toepfer, Raymond August m	*Madison*
Tomlin, Elgie Viola	*Madison*
Tomisch, Marie Benjamin	*Gary, Ind.*
Touton, Edith Cammock	*Kansas City, Mo.*
Trachte, Clarence Gilbert	*Watertown*
Tracy, Sterling Hill	*Memphis, Tenn.*

Tseng, Chausson Chao-Cheng	*Changsha, China*
Tucker, Alice Needham s e	*Berwyn, Ill.*
Tucker, Freda Dean	*Claypool, Ind.*
Turnbull, Margaret Elinor	*Sparkland, Ill.*
Turney, Kathryn	*Indianapolis, Ind.*
Tuttle, Clifton Milton	*Madison*
Utt, Ana Ley	*Oceanside, Cal.*
Van Aken, Julia Lois	*Coldwater, Mich.*
Van Dyke, Samuel Philip	*Kilbourn City*
Van Houten, Richard Walter	*Milwaukee*
Vance, Esther Miriam	*Eddyville, Iowa*
Vetten, Cornelius Nicholas m	*Sheboygan*
Voss, Wesley August m	*Beloit*
Waldron, Eloise s e	*Rockford, Ill.*
Wall, Arthur Raymond	*Antigo*
Wall, Mark Henry m	*Eau Claire*
Walther, Harriet Doney	*Florence, Kans.*
Ware, Dorothy Rhoda	*Portage*
Warner, William Everett s e	*Platteville*
Warren, John Hyland	*Tomah*
Watson, Julie Courtenay	*Duluth, Minn.*
Weaver, Elizabeth	*Indianapolis, Ind.*
Wehe, Blanche Lucile	*Lakota, N. Dak.*
Weinberg, James Arthur m	*Lonaconing, Md.*
Weir, Helen May	*Des Moines, Iowa*
Welch, Stanley Edwin	*Chicago, Ill.*
Werner, Peter Albert	*Milwaukee*
Werner, Victoria L. s e	*Oshkosh*
Westendarp, Dorothy Emma s e	*Coldwater, Mich.*
Whealan, Florence Josephine s e	*Fond du Lac*
Wheeler, Catherine Eleanor s e	*Wauwatosa*
White, Burton Henry	*Oconomowoc*
White, Mary Edna s e	*Kent, Ohio*
White, Paul Benjamin	*Madison*
Whitlock, Martha Phelps	*Chicago, Ill.*
Whittet, Leona Post	*Madison*
Wible, Herbert Lloyd	*Elm Grove*
Wieland, Florence Anna	*Lancaster*
Wiese, Esther Lois	*Manitowoc*
Wiggam, Winifred	*Emporia, Kans.*
Wiggenhorn, Adele Julia	*Milwaukee*
Willett, Alfred Edwin	*Plainfield, N. J.*
Williams, John McMynn	*Oberlin, Ohio*
Winchell, Ima Charlotte	*Madison*
Winchester, Clarice Rutherford	*Flint, Mich.*
Winter, Mabel	*Madison*
Wofsy, Samuel Abraham	*Gozanna Pernambuco, Brazil*
Wurlitzer, Valeska Helene	*Cincinnati, Ohio*
Yeoman, Alta Thiele	*La Crosse*
Yost, Harrington Graham	*Mosinee*
Zander, Edith Marie	*Two Rivers*

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Course in Commerce

Abrahamsen, Abe	*South Milwaukee*
Albertz, Ella Minna	*Watertown*
Albrecht, Karl Albert	*Appleton*
Alexander, Marjorie	*Milwaukee*
Andersen, Victor Sigurd	*Madison*
Anderson, Luther Carleton	*Scandinavia*
Anstey, Helen Belinda	*Madison*
Arnquist, Anna Theodora	*Hudson*
Arvidson, Oscar Frederick	*Marinette*
Aspinwall, Robert Abbott	*Ft. Atkinson*
Bailey, Donald Moore	*Sioux City, Iowa*
Bailey, Paul Edward	*Menomonie*
Balch, Harold McFarland	*Madison*
Bamford, George Joseph	*Plymouth*
Barager, Miler Emerson	*Owen*
Bardeen, Frank Adelma, Jr.	*Milwaukee*
Battles, Graham	*Peoria, Ill.*
Baum, George William	*La Crosse*
Baum, Walter Henry	*La Crosse*
Benedict, Marion Elias	*Neillsville*
Bennett, Loren	*Flandreau, S. Dak.*
Benson, Arthur Hjalmer	*Clear Lake*
Berg, Milton Eilef	*Onalaska*
Bergman, Alfred Edward	*Eau Claire*
Bieber, Edgar Peter	*La Crosse*
Bierer, Edward William	*Milwaukee*
Bilansky, Hyman Joseph	*Milwaukee*
Birkett, Lloyd William	*Hazel Green*
Bischoff, Clifford Edward	*Superior*
Bohri, Waldemar Frederick	*Fountain City*
Bonk, Peter Gregory	*Two Rivers*
Bonslett, Edward William	*McHenry, Ill.*
Booth, Leland Lundry	*Oklahoma City, Okla.*
Borden, Leighon Charles	*Milwaukee*
Bossard, Beulah Vera	*Madison*
Bosworth, Robert Louis	*Oklahoma City, Okla.*
Boyce, Fred Comstock	*Wausau*
Brandt, Clarence Albert	*Fennimore*
Brann, Lester William	*Baileys Harbor*
Braun, Edward John	*Cassville*
Braun, Mervyn	*Milwaukee*
Brewer, George Frederick	*Indianapolis, Ind.*
Breyvogel, Allie Lloyd	*Brodhead*
Brodt, Cecil DeWitt	*Rice Lake*
Bronson, Carl Evans	*Spencer, Iowa*
Brown, Marion	*Nickerson, Kans.*
Butler, Marian	*Appleton*
Caluwaert, Evrard Charles	*Oak Park, Ill.*
Capek, Charles Ashmore	*Antigo*
Capen, Henry Willis	*Bloomington, Ill.*
Carpenter, Everett Nicholas	*Milwaukee*

Caeser, Carl Frederick	*Boise, Idaho*
Chapleau, Elmer William	*Port Washington*
Charlson, Roy Marion	*Eau Claire*
Christy, Robert Harris	*Eureka, Kans.*
Coleman, Joseph Carroll	*Janesville*
Conkling, Gerald Marsh	*Lyons, Kans.*
Conway, Helen Leeft	*Wisconsin Rapids*
Corriveau, Allen Le Tendre	*Port Edwards*
Couture, Cemilda Mary	*Rice Lake*
Crane, Eugene Edward	*Chippewa Falls*
Crary, Helen Rita	*Delavan*
Crowley, Robert John	*Janesville*
Curry, Robert James	*Baraboo*
Dally, John Everton	*Milwaukee*
Danielson, John Julian	*Rio*
Davis, George Cundall	*Milwaukee*
Denlinger, Harold Adelbert	*Dayton, Ohio*
Desmond, Humphrey Earl	*Milwaukee*
Deysenroth, Carl Frederick	*Columbus*
Diamond, Jerome	*Milwaukee*
Dill, Marian Grace	*Superior*
Dollard, John Adrian	*Fond du Lac*
Donalds, John Eustace	*Superior*
Dopp, Ernest, Jr.	*Superior*
Durkes, Luther Lahman	*Franklin Grove, Ill.*
Ecke, Rollin Evans	*Fond du Lac*
Ekern, Elsie Alverne	*Madison*
Emmons, Lawrence Earle	*Quincy, Ill.*
Engelhardt, Carl John	*Milwaukee*
Engelhardt, William Frederick	*Milwaukee*
Engler, Henry Alfred	*Waukesha*
Evenson, Alf Ingvald	*La Crosse*
Falk, Gustave Rudolph	*Spooner*
Falstad, Ralph Leonard	*Eau Claire*
Feldman, Joseph George	*Madison*
Felten, Clarence Bernard	*Milwaukee*
Ferguson, Leander Wood	*Madison*
Field, William Alexander, Jr.	*Chicago, Ill.*
Fleckenstein, Joseph Arthur	*Marshfield*
Flinn, William Claude	*Superior*
Fonteine, La Mont Erwin	*Milwaukee*
Fuhrmann, Carl Gustave	*Dubuque, Iowa*
Fuller, Keith La Rue	*Lake Togebic, Mich.*
Gahagan, Patrick Marion	*Reedsburg*
Gardner, Claude Dennis	*Platteville*
Garstang, Reginald William	*Indianapolis, Ind.*
Gebhardt, Hertha Anna	*Juneau*
Geimer, Roland Jonas	*Two Rivers*
Gill, Corrington Calhoun	*Grand Rapids, Mich.*
Goldberg, Mark	*Madison*
Goo, Violet	*Honolulu, Hawaii*
Griem, Lester Victor	*New Holstein*
Groth, Harold Henry	*Manitowoc*

Gruenheck, Esther Josephine	*Fond du Lac*
Hamelrath, Dorothy Grace	*Merrill*
Hatch, Vernon Victor	*Eau Claire*
Hazard, Charles Mackintosh	*Milwaukee*
Heim, Laura Elizabeth	*Madison*
Heisman, Milton John	*Watertown*
Hickey, Rollin Martin	*Reedsburg*
Hooey, Clifford Kile	*Rice Lake*
Horn, Matilda Olga	*Brillion*
Jansen, Leonard Joseph	*Kaukauna*
Jessell, Reuben Fred	*Madison*
Johnson, Leonard Marion	*Orfordville*
Jones, David Roswell	*Spring Green*
Jones, Wesley Warren	*Madison*
Jordan, Stanislaus Stephen	*Antigo*
Junemann, Harold Ernest	*Waukesha*
Kessler, Alfred Ferdinand	*Watertown*
Kiekhofer, Margaret Adelia	*Milwaukee*
Kinnan, Arthur Houston	*Madison*
Kinnear, Kenneth Maxwell	*La Crosse*
Kletzien, Elmer Abraham	*New Holstein*
Kneevers, Earl Edwin	*Sheboygan*
Knilans, Stuart Crocker	*Sheboygan*
Koehler, William John	*Milwaukee*
Krohn, Victor Eugene	*Black River Falls*
Kruse, Elmer Deling	*Madison*
Laemle, Bert D.	*Marshfield*
Lamson, David Nelson	*Roberts*
Lane, Robert Ellsworth	*Janesville*
Larson, Ralph Elliott	*Madison*
Lawson, Philip Carl	*Clinton*
Layman, George Arthur	*La Crosse*
Lichtfeldt, Pearl Amalia	*Milwaukee*
Lilly, John Joseph	*Milwaukee*
Lindstrom, Ruth	*Viroqua*
Lorig, Arthur Nicholas	*South Milwaukee*
Lubenan, John George	*Fall River*
Lucas, Mary Jane	*Huntington, Ind.*
McConnell, Ansley Bryan	*Darlington*
McDonald, Robert Edmund	*Milwaukee*
McFarland, Evelyn Volmer	*Cairo, Ill.*
MacGregor, William Grant	*Westfield*
McHugh, Margaret Amelia	*Milwaukee*
McIntosh, Clarence William	*Edgerton*
McKay, Neil Scott	*Huron, S. Dak.*
McKenzie, Basil Francis	*Turtle Lake*
Maedje, Hildegarde Louise	*East Cleveland, Ohio*
Mainland, William Bruce	*Oshkosh*
Makinson, Amy Waugh	*Kissimmee, Fla.*
Martin, Horace Perry	*Mineral Point*
Mason, George Mitchell	*Verona*
Mathews, Murray Cornelius	*Ashland*
Mautz, Bernhard Meyer, Jr.	*Madison*

Maytum, Thelma E.	*Alexandria, S. Dak.*
Merkel, Leo Joseph	*Appleton*
Merrick, Dale McKeen	*Eldora, Iowa*
Miller, Omar Peter	*Manitowoc*
Mills, Dudley John	*Black River Falls*
Morrissey, Katherine Mary	*Madison*
Mulvaney, Walter Andrew	*Hudson*
Nash, Richard Michael	*Madison*
North, John Kenyon	*Memphis, Tenn.*
O'Brien, Louis Joseph	*Danville, Ill.*
Ormond, Roy Bazanquith	*Brookfield*
Orvis, George Carl	*Waukesha*
Ott, Hans Waldemar	*Watertown*
Paddock, Forrest Glenn	*Ashton, Ill.*
Page, Arnold Seaver	*Kansas City, Mo.*
Park, Benjamin Herbert	*Fond du Lac*
Pattison, Nancy	*Freeport, Ill.*
Peach, Lloyd	*Edgerton*
Pearson, Ralph Jenkins	*Madison*
Peebles, William Smith Jr.	*Lawrenceville, Va.*
Perry, Robert Hazard	*Milwaukee*
Pond, Thomas Henry, Jr.	*Keokuk, Iowa*
Presser, Erwin Joseph	*Milwaukee*
Quam, Jerry Herman	*Stoughton*
Ralph, James	*Madison*
Rector, Albert Clayton	*Appleton*
Remington, Margaret Amy	*Hibbing, Minn.*
Rendall, Willard James	*Des Moines, Iowa*
Richardson, Carolyn Margaret	*Delavan*
Richter, Henry Wingfield	*Milwaukee*
Rigby, Esther Grace	*Milwaukee*
Ritzenthaler, Otto Martin	*Baraboo*
Roberts, Richard Alexander	*Chicago, Ill.*
Ruffolo, Fred	*Racine*
Russell, Charles William	*Flandreau, S. Dak.*
Ryan, Mildred Elizabeth	*Madison*
Ryan, Patrick Henry, Jr.	*Sheboygan*
Sampson, George Nelson	*Minong*
Sawyer, William Merrill	*Steelton, Pa.*
Schneider, Arthur Henry	*Chippewa Falls*
Schomisch, Norman Nicholas	*Appleton*
Schroeder, Henry Frederick	*Milwaukee*
Schujahn, Alvin David	*Fond du Lac*
Scribner, Harold Alfred	*Stevens Point*
Selvage, Harold Taylor	*Indianapolis, Ind.*
Shaidnagle, Helen Frances	*Milwaukee*
Shaw, Reginald Mathison	*Superior*
Sidie, Stanley Raymond	*Viroqua*
Silverness, Emil Leonard	*Mondovi*
Silverness, Joseph	*Mondovi*
Simpson, Noel	*Oshkosh*
Sinaiko, Isaac	*Madison*
Slothower, David Wendell	*Platteville*

Smith, Edwin Eugene	*Jacksonville, Ill.*
Smith, Ermin	*Wisconsin Rapids*
Smith, Howard Irvine	*West Salem*
Sollitt, Lincoln Abbott	*Chicago, Ill.*
Spring, Charles Edward	*Superior*
Staples, Jasper Fayette	*Onalaska*
Stark, Theodore Eugene	*Tripp, S. Dak.*
Stavrum, Thomas Lowell	*La Crosse*
Stevens, George Oliver	*Chicago, Ill.*
Stickle, Theodore Everette	*Cottage Grove*
Stolley, George Brockway	*Milwaukee*
Stolte, Herbert Albert	*Reedsburg*
Stowell, Esther	*Peoria, Ill.*
Stuebing, Albert Carl	*Sioux Falls, S. Dak.*
Suhm, Herbert Ralph	*Milwaukee*
Sundby, Clifford Arthur	*Eau Claire*
Sundt, Percy Odin	*Stoughton*
Sweet, Ben	*Madison*
Sylvester, Walter Herbert	*Wauwatosa*
Syverson, Rudolph	*Eleva*
Taylor, Warren Alvin	*Ashland*
Terkel, Richard Benjamin	*Milwaukee*
Thauer, Richard Clarence	*Watertown*
Thoma, Edward Patrick	*Mineral Point*
Thomas, Margaret Augusta	*Wauwatosa*
Thompson, Oruman	*Taylor*
Thwing, Elizabeth	*Toledo, Ohio*
Tillisch, Michael Ravn	*Merrill*
Tipple, Erwin Russell	*Oregon*
Todd, Leah Tina	*Charleston, Ill.*
Torbet, James Allen	*Minneapolis, Minn.*
Tornell, Ward Gerald	*Pilot Mound, Iowa*
Trowbridge, Frederick Newell	*Viroqua*
Tuttle, Karl Rogers	*Spencer, Iowa*
Umbreit, George MacKenzie	*Milwaukee*
Voorhis, Charlotte Calvin	*Yonkers, N. Y.*
Walker, Shores Adelbert	*Duluth, Minn.*
Walther, Herman Oscar	*Madison*
Warner, Lawrence Potter	*Philadelphia, Pa.*
Weiler, Carroll	*Madison*
Wendroff, Herman	*Milwaukee*
Westerfeld, Hattie Frone	*Madison*
Wickenden, Gertrude Worth	*St. Louis, Mo.*
Wiley, Harley Beal	*Hancock*
Wilkens, Alice Rostetter	*Ft. Wayne, Ind.*
Williams, Frank McKinley	*Earl*
Williams, Porter Ackerman	*Estherville, Iowa*
Wolberg, Harvey Theodore	*Iola*
Yapp, Clinton R.	*Madison*
Yu, Yiu Chieh	*Tsungkow, China*
Zimmerman, Harry Francis	*Neillsville*
Zimmerman, Rudolph Charles	*Carrollville*

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Course for Normal School Graduates

Albrecht, Louis John s e	*Kewaunee*
Biggs, Ella May s e	*Gordon*
Boedeker, Ruth Margaret	*St. Louis, Mo.*
Burke, Richard John s e	*Madison*
Chadderdon, Lyda Marie	*Adair, Ill.*
Chillrud, Franklin Chester s e	*Scandinavia*
Crowe, Mary	*Charleston, Ill.*
Duffin, Lois Henriette	*Whitewater*
Ellison, Alice Peters s e	*Macomb, Ill.*
Emerson, Jean	*Baker, Mont.*
Frederick, Jessie Rutherford	*St. Louis, Mo.*
Fuller, Bessie Beatrix s e	*Barron*
George, Caddie Gertrude	*Gays Mills*
Hatfield, Carson Arthur s e	*La Farge*
Holdahl, Isabelle Theresa	*Beldenville*
Horton, Evelyn Leona	*St. Louis, Mo.*
Johnson, Edith Mary	*Grand Rapids, Mich.*
Keyes, M. Grace	*Beloit*
Luther, Elizabeth Lodicy s e	*Poynette*
Marsh, Herbert Nelson s e	*Stevens Point*
Nelson, Edith Evelyn	*Oshkosh*
Ophaug, Ruth	*Madison*
Radke, Frieda Helene s e	*Neillsville*
Smith, Beulah Iva	*Milwaukee*
Tregear, Jessie Cameron	*Detroit, Mich.*
Voelker, Ida Margaret	*Richland Center*
Whybrew, Cora Alice	*North Crandon*
Williams, Dale Paul s e	*Omro*
Williams, Lela s e	*Augusta, Ill.*
Williams, Lenore Margaret	*Waukesha*
Wippermann, Edgar George s e	*Sheboygan*

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Course in Chemistry

Baughman, Theresa Cecile	*Wisconsin Rapids*
Blish, Zirian Aldrich	*Fond du Lac*
Carswell, Harry Eaton	*Richland Center*
Draize, John Henry	*Brussels*
Drobka, Frank Joseph	*Manitowoc*
Du Bois, Horace Albert	*Neenah*
Elder, Joshla Gower	*Keokuk, Iowa*
Fawkes, Charles Elliott	*Dubuque, Iowa*
Flikkie, Henry John	*Viroqua*
Gettle, Rollin Brown	*Madison*
Glomsteadt, Edwin Engwald	*Sturgeon Bay*
Gooding, Ralph Urban	*Fond du Lac*
Griem, Walter Bert	*New Holstein*
Hrubesky, Clarence Earl	*Menasha*
Huntington, Vina Layzette	*Darlington*
Huntley, Alton Karl	*Clyd, Ohio*
Krueger, Herbert Ferdinand	*Stevens Point*
Kung, Müller Ling-Hsüan	*Shantung, China*

Limoseth, Orlando Burton	*La Crosse*
Ludden, Alfred Dexter	*Mineral Point*
Mansfield, Harriet Louise	*Okauchee*
Newbury, Edwin Wilson	*Burlington*
Nissen, Brynjulv H.	*Madison*
Palmer, Genevieve Arlysle	*Columbus*
Perrin, Hubert Logan	*Ashland*
Peterson, Lester William	*Leonardsville, N. Y.*
Pickering, Elizabeth	*Madison*
Pier, Harry McKay	*Richland Center*
Rang, Karl Henry	*Oshkosh*
Rowland, Kathrine Griffith	*Madison*
Sawyer, Frances Marie	*South Milwaukee*
Schneider, Hans	*Milwaukee*
Shen, Hsiung Ching	*Shanghai, Kiangsu, China*
Sommers, Eva Margaret	*Madison*
Stambaugh, Philip Sheridan	*Youngstown, Ohio*
Stein, Bruno Adam	*South Germantown*
Tiedeman, Leonard Paul	*Madison*
Walsh, Victor Joseph	*Westfield*

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Course in Journalism

Ahern, Dorothy Frances	*Fond du Lac*
Bartels, Raymond Osborne	*Milwaukee*
Bridgman, Mary Fawcett	*Stanley*
Brindley, John Webster	*La Crosse*
Churchill, Dorothy Helene	*Milwaukee*
Coerper, Henry John Jr.	*Indianapolis, Ind.*
Coward, Isadore Elizabeth	*Lodi*
Daly, Margaret Frances	*Chicago, Ill.*
Daniels, Walter Edgar	*Oak Park, Ill.*
Davis, Glen Frederick	*Topeka, Kans.*
Desmond, Robert William	*Milwaukee*
Dickson, Mary Myrtle	*Freeport, Ill.*
Elliott, Bernice	*Highland Park, Mich.*
Ferguson, Katherine L.	*Lake Geneva*
Gannon, Leo Vincent	*Sedan, Minn.*
George, Lloyd	*Geneva, Ill.*
Gerlach, Mildred Marie	*Chicago, Ill.*
Halling, Erick Martin	*Milwaukee*
Halperin, Harry	*Madison*
Hamilton, John Stuart	*Westfield*
Haven, Esther Olive	*Hudson*
Jacobson, Kenneth Hopkins	*Curtiss*
Katz, Elizabeth	*Milwaukee*
Lyford, Harry Burgh	*Hampton, Va.*
MacBride, LaMont Leslie	*Granton*
MacInnis, Charles Pattison	*Pittsburgh, Pa.*
Mamson, Charles Leighton	*Wausau*
Moore, Thomas Francis	*Watertown*
Morton, Annie Elizabeth	*Omro*
Mould, Mary Elizabeth	*Sioux City, Iowa*

Nagler, Leona Rosine	*Osceola*
Newcomb, Adah	*Pepin*
Nohr, Leonard Merton	*Stevens Point*
Peterman, Ivan Hugh	*Cecil*
Robinson, Virginia Carolyn	*Maryville, Mo.*
Ruby, Violet	*Madison*
Saunders, Clare Casler	*Madison*
Schram, Donald Finney	*Beloit*
Schutz, George John, Jr.	*Shawano*
Shaw, Evelyn Maud	*Madison*
Strassburger, Marion Brunette	*Oshkosh*
Tomlinson, Helen	*Eau Claire*
Walker, Margaret Ruth	*Almond*
Woodworth, Douglas Harmon	*Sparta*
Zander, Lucille Trossen	*Brillion*

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General Course

Daelhousen, Glenn	*Hannibal, Mo.*
Gombar, Francis Sutherland	*Brodhead*
Lehner, Otto Philip	*Madison*
Loveland, Eleanor s e	*Poynette*
Matchette, William Harrison, Jr.	*Madison*
Ortega, Ricardo Maglanoc s e	*Miliwalo, P. I.*
Tafel, Olga Alma	*Louisville, Ky.*
Wilcox, Russell Arthur	*Horicon*

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Sophomores

Adelt, Gertrude Eleanor	*Kenosha*
Affeld, Christina McDonald	*Chicago, Ill.*
Alschuler, Jacob Edward	*Aurora, Ill.*
Alter, Margaret Antoinette	*Manitowoc*
Anderberg, Pearl Amy	*Colton, S. Dak.*
Andersen, Olga Fredrika s e	*Madison*
Anderson, Agnes Edith	*Wausau*
Anderson, Dorothy Vesta	*Milwaukee*
Anderson, Margaret	*Norwalk, Ohio*
Anderson, Mildred Victoria	*Winnipeg, Canada*
Anderson, Ottilia Christina	*Madison*
Anding, Henry Moore	*Burlington, Iowa*
Ansfeld, Arnold Joseph	*Milwaukee*
Arey, Miriam Gordon s e	*Oak Park, Ill.*
Arnold, Lottie Lucille	*Madison*
Arnold, Lyman Kent	*Madison*
Arnold, Suel Orr	*Madison*
Austin, Grace Geraldine	*Madison*
Axley, Ralph Emerson	*Seymour*
Axtell, Frances Louise s e	*Washington, D. C.*
Ayers, Esther Marian	*Dickinson, N. Dak.*
Bachhuber, Alphons Eugene	*Mayville*
Bachhuber, Hugo Charles	*Mayville*
Bacon, Dorothy York	*Salt Lake City, Utah*

Bacon, Francis Philpott	*Madison*
Bade, Carl Alfred	*Milwaukee*
Badenoch, Helen Isabelle	*Evanston, Ill.*
Bailie, Florence Eva	*Lancaster*
Baker, Rowe George	*Tomahawk*
Baratz, Joseph Jacob	*Madison*
Barber, Marion Childs	*Minneapolis, Minn.*
Barnes, Lola Barbara s e	*Crown Point, Ind.*
Barry, Catherine	*Cedar Rapids, Iowa*
Bates, Wilfred Bartlett, Jr.	*Madison*
Beffel, John Marshall, Jr.	*Milwaukee*
Bell, Douglas Bolton	*Tomah*
Bell, Helen Kinsley	*Franklin, Pa.*
Bellows, Esther Katharine	*Evanston, Ill.*
Benjamin, Helen Evelyn	*Sibley, Iowa*
Bennett, Doris Louise	*Madison*
Berkwich, Helen Marian	*Milwaukee*
Berryman, Romayne May s e	*Elkhart, Ind.*
Bersing, Otis Silas	*Blair*
Bingham, Esther Malcolm	*Kenosha*
Bird, Geneva Anne	*Madison*
Birnbaum, Frank Albert	*La Crosse*
Birong, Loraine Anna	*Madison*
Bjornson, Marion L. s e	*La Moure, N. Dak.*
Blacklidge, Mildred Edna s e	*Menasha*
Blair, Marion Shattuck	*Webster Groves, Mo.*
Blanding, Bess Florence s e	*Chicago, Ill.*
Blattner, John William	*Sulphur, Okla.*
Blied, Edna W.	*Madison*
Blumer, Bertha J. J.	*Milwaukee*
Boardman, Elderkin Carvar	*Marshalltown, Iowa*
Bond, Russell Conwell	*Wheeling, W. Va.*
Bonnifield, Mary Aleindo	*Ottumwa, Iowa*
Boorman, Harvie James	*Wisconsin Rapids*
Borge, Dagny Olivia Magdalen	*Madison*
Boswell, Bernice s e	*Rockford, Ill.*
Bothwell, John Spies	*Menominee, Mich.*
Bowles, Mira	*Indianapolis, Ind.*
Boyden, Sidney Millard	*Chippewa Falls*
Brabant, Margaret Elizabeth	*Marinette*
Brader, James Lyman	*Madison*
Bradish, Rachel Hall	*Ottawa, Ill.*
Bredesen, Philip Gunerius	*Beloit*
Breslauer, Nathanael Pereles	*Milwaukee*
Bresler, Lillian Gabriella	*Milwaukee*
Brockhausen, Florence Mable	*Milwaukee*
Brooks, Warren Ephraim	*De Pere*
Brown, Robert Whitcomb	*Highland*
Brown, Rowena Ruth	*Madison*
Brundage, Lyla Ruth	*Geneva, Ill.*
Bryant, Mildred Leigh	*Wauwatosa*
Bucholz, Ethel Idabel	*Green Bay*
Bundy, Ethel Gwendolyn	*Detroit, Mich.*

Buob, Helen Dorothy	*Madison*
Burdon, Harold Victor	*Rice Lake*
Burkhardt, Leona Florence	*Burkhardt*
Burnham, Henrietta	*Waupaca*
Burpee, Leah Rowe	*Janesville*
Burwell, Amelia	*Madison*
Busch, Mildred Helene	*Oshkosh*
Buxton, James Clifford	*Platteville*
Campbell, Frances Wadsworth	*Madison*
Canuteson, Ralph Irving	*Galesville*
Capps, Isabel La Vica s e	*Brooklyn, N. Y.*
Carlson, Harry Vladimir	*Kenosha*
Cawley, Regina	*Wausau*
Carlisle, Vera s e	*Robinson, Ill.*
Carlyle, Vera Thomas	*Madison*
Carver, Paul Connie	*Oshkosh*
Cattau, Louis William	*Shawano*
Chandler, Marianna	*Milwaukee*
Chapman, Edwin James	*Oshkosh*
Chase, Eleanor Sawyer	*Oshkosh*
Chasse, Leo Jeannot	*Madison*
Cherry, James Crowell	*Kenilworth, Ill.*
Chipman, Mary Lynette	*Morrisonville*
Christianson, Carl	*Madison*
Chu, Chi Hwang	*Shansi, China*
Clague, Coleman Elliott	*Winnetka, Ill.*
Clark, Elizabeth Ann	*Menomonie*
Clauson, Elizabeth Bertha	*Redwing, Minn.*
Clayton, Irene Albertine s e	*Milwaukee*
Coddington, June Dorothy	*Milwaukee*
Cohen, Jesse	*Waupaca*
Collicutt, Earl Hall	*Mineral Point*
Collins, Gertrude Elsie	*Rockford, Ill.*
Combacker, Howard Ridley	*Osceola*
Conklin, Katherine Mary	*Madison*
Conklin, Margaret Grinselle	*Madison*
Conley, Paul Bernard	*Darlington*
Connor, Marion Victoria	*Madison*
Conners, Lozelle Bernadine	*Green Bay*
Cosgrove, Frances Elizabeth	*Madison*
Cover, Anna Louise	*Johnstown, Pa.*
Coveyou, Amil Demion	*Janesville*
Cowpland, Elliott McLane	*Ishpeming, Mich.*
Coyne, James Howard	*Madison*
Cramer, Lawrence William	*Milwaukee*
Cristman, Ezra Dormer	*Milwaukee*
Crozier, Everett Harvey	*Milwaukee*
Crush, Florence Ann s e	*Norwood, Pa.*
Culver, Marian Gray	*Eau Claire*
Curtis, Helen Florence	*Merrill*
Curtis, Lucile Nielsen s e	*Madison*
Davies, Anna Gladys	*Madison*
Davis, Dixie	*Oak Park, Ill.*

Dawson, Charles Nash	*Beloit*
Deicher, Phillip George	*Madison*
Delaney, Agnes Dorothea	*Madison*
Dennison, Margaret	*Denver, Colo.*
Deutch, Rose Irene	*Canton, Ill.*
DeVine, Elenora Beatrice	*Farwill, Ind.*
Dietsch, Leland Charles	*Plymouth*
Dishmaker, Melvin Charles	*Luxemburg*
Dodd, John Morris	*Ashland*
Doerr, John Edward, Jr.	*Mt. Vernon, Ind.*
Dollard, Ellen Vivian	*Fond du Lac*
Doolittle, Kathryn Louise s e	*Winnetka, Ill.*
Doring, Josephine Virginia	*Darlington*
Donovan, Margaret Emma	*Madison*
Dornbush, Adrian James	*Kenosha*
Douglas, Reinette Elizabeth	*Milwaukee*
Douglas, Robert Archie	*Waukesha*
Draeb, August Edward	*Sturgeon Bay*
Drake, Emmel Addis	*Mendota*
Dresser, Helen Katherine	*Clinton*
Droege, Claus	*Glencoe, Ill.*
Droppers, Alice Louise	*Milwaukee*
Du Bois, Caroline Elizabeth	*Green Bay*
Dull, Cecil Fay	*Boscobel*
Dunn, Lorraine Ludington	*Madison*
Dunn, Suzanne	*Erie, Pa.*
Dvorak, Harold Joseph	*Milwaukee*
Edwards, William Henry	*Washington, C. H., Ohio*
Ela, Emily Elizabeth	*Rochester*
Elder, Katharine Cecelia	*Keokuk, Iowa*
Elliott, Alvah Charles s e	*Muscoda*
Elliott, Faith Theresa	*Boulder, Colo.*
Elliott, Helen Martha s e	*Oak Park, Ill.*
Ellis, Richard Winfield	*Chicago, Ill.*
Elser, Frieda Margaret	*Beaver Dam*
Elser, Louise Helen	*Beaver Dam*
Elver, Bernice Jeanette	*Madison*
Emmerling, Margaret Emily	*Milwaukee*
Ende, Anna	*Sheboygan*
Engelhard, Alfred Benjamin	*Chicago, Ill.*
Erickson, Edgar Lewis	*Durand*
Esser, Robert Grant	*Milwaukee*
Etz, Eugene Charles	*Wheeling, W. Va.*
Evenson, Earl E.	*Antigo*
Faletti, Stephen Lawrence	*Spring Valley, Ill.*
Farrior, Bonnie Lee	*Dardanelle, Ark.*
Fehrer, Florence Louise	*Milwaukee*
Feldman, Samuel S.	*Sheboygan*
Fenelon, Dorothea Mary	*Rhinelander*
Fenn, Alma Jeanette s e	*Prophetstown, Ill.*
Fentress, Olivia Primrose	*Hubbard Woods, Ill.*
Fernberg, Babeth Grace	*Aurora, Ill.*
Fiedler, George Adolph	*Holcombe*

Finkelstein, Morris	*Milwaukee*
Finley, George William	*Fontana*
Fitzgerald, John Bertram	*Fond du Lac*
Fitzgibbons, Ida Kathryn	*Monroe*
Flarity, Thomas Harold	*Edgerton*
Fleming, Florence Charlotte	*Elkhart, Ind.*
Florin, Alvin Christian	*Fountain City*
Forney, Mary Allene	*Peoria, Ill.*
Francois, Emily Genevieve	*Brooklyn*
Frey, Harold Alfred	*Madison*
Frick, Alice Elizabeth	*Athens*
Friedrich, Paul Edmond	*St. Charles, Mo.*
Fritschler, John Curtis	*Sturgeon Bay*
Frye, Mildred Sarah	*Sparta*
Fuller, Blanche Helen	*Madison*
Fuller, Ruth Helen	*Waterman, Ill.*
Gage, Leslie Richards	*Peoria, Ill.*
Gallagher, Alice Elizabeth	*Evanston, Ill.*
Galvin, Ruth Gwendolen s e	*Mason City, Iowa*
Gangelin, Paul Victor	*Wauwatosa*
Gardner, William McHard	*Huron, S. Dak*
Garrity, Patricia Agnes	*Antigo*
Geiger, Ailene Jeanette	*Monroe*
Geiger, George	*Milwaukee*
Geller, Helen Henrietta	*Muscoda*
Gertz, Michael Alexander	*Hurley*
Gesser, John Peter	*Milwaukee*
Getzelman, Eunice Jane	*Elgin, Ill.*
Gibbon, Hannah Mabel	*Madison*
Gilbert, Theodore Markley, Jr.	*Neenah*
Gill, Earl Francis	*Madison*
Gill, Myrle Agnes	*Shawano*
Gillis, Archie Edward	*Antigo*
Gilmore, Eliot	*Winthrop, Me.*
Gilmore, Eugene Allen, Jr.	*Madison*
Godshall, Edna Bailey	*Madison*
Goeldner, Mabel Isabelle	*Watertown*
Gold, Bessie	*Berlin*
Goldberg, Irving	*Milwaukee*
Goodenow, Florence Brown	*Berlin, Mich.*
Goodyear, Carol Marston	*Madison*
Gower, Dorothy Emma	*Odell, Ill.*
Graves, Eleanor Warren	*St. Louis, Mo.*
Gray, Lucille Olive	*Sioux City, Iowa*
Greenblatt, Valeria	*Milwaukee*
Greenwood, Grace Eolah	*Lake Mills*
Gregory, Horace Victor	*Milwaukee*
Gregory, Seth Howard	*Delavan*
Grier, Lonnie Leander	*Lake Geneva*
Grier, Mary Rhoda	*Evanston, Ill.*
Griffith, Cunningham Le Roy	*Quanah, Tex.*
Griffith, Margaret	*Lake Forest, Ill.*
Grimm, Alfred Frederick	*Madison*

Groan, Martha Ayleen	*New Albany, Ind.*
Groth, Edna Laura	*Jackson*
Grover, Beth Beachel	*Kenosha*
Gruhl, Alfred Monroe	*Milwaukee*
Gude, Helen Dorothy	*Davenport, Iowa*
Guentzel, Mildred Emma	*Boscobel*
Gundersen, Trygve	*La Crosse*
Haak, Irma Carol s e	*Davenport, Iowa*
Hadley, Susan Emma	*Janesville*
Haffenberg, Helen Ethel	*Chicago, Ill.*
Haley, Mary Louise	*Tulsa, Okla.*
Hall, Vivian Izora	*Superior*
Halline, Allan Gates	*De Pere*
Halverson, George Maynard	*Madison*
Hambley, Mary	*Hurley*
Hamilton, Arthur Clay	*Aurora, Ill.*
Hance, Ben McCall	*Niles, Mich.*
Hance, Lyle Stanley	*Madison*
Hansen, Abner	*Edgerton*
Hanson, Evelyn Grace s e	*Chicago, Ill.*
Harley, Gertrude Ruth	*Madison*
Harrington, Earl Thomas	*Milwaukee*
Harris, Dora s e	*Cleveland, Ohio*
Harris, Esther Jeanette s e	*Cuba City*
Hart, William Eustis	*Cumberland*
Hartwig, Harold William	*Watertown*
Harvey, Frances Lucile	*Grand Rapids, Mich.*
Haven, Gertrude Jewella B.	*Stoughton*
Hawley, Gladys Lucile s e	*Pelican Lake*
Hawley, Grace Gillian	*Elgin, Ill.*
Hayes, Ellen Marie	*Cambridge*
Hays, Lillian Blanche	*Richland Center*
Hazard, Williametta Sylva	*Sioux Falls, S. Dak.*
Hazen, George Brewster	*Peoria, Ill.*
Head, Donald Seaver	*Madison*
Heald, Benjamin Franklin	*Sheboygan, Falls*
Heassler, Alton Sprecher	*Madison*
Heath, Harold John	*Portage*
Heimdal, Clarence Oliver	*Minneapolis, Minn.*
Heller, Gertrude Marie	*Milwaukee*
Hempe, Edna Ida	*Milwaukee*
Hendra, Christopher	*Madison*
Henning, Beatrice Husting s e	*San Diego, Cal.*
Henninger, Gertrude Louise s e	*Bloomington, Ill.*
Henry, Margaret Grace s e	*Rockford, Ill.*
Hess, Edith	*Council Bluffs, Iowa*
Hiken, Charles	*Milwaukee*
Hilbert, Philip Fox	*Milwaukee*
Hill, Helen Alice	*Superior*
Hill, Miriam Elizabeth	*Chicago, Ill.*
Hipke, Malcolm Maynard	*Milwaukee*
Hodney, Sigrid Carlson	*Madison*
Hoehn, Henry Gerard	*Monroe*

Hofacker, Henry August	*Plum City*
Hogan, Mildred Elsie	*Mt. Horeb*
Hohlfeld, Karl Voss	*Madison*
Hohlfeld, Rudolph Libbert	*Madison*
Holliday, Nathan William	*Oshkosh*
Holt, Lyla Amelia	*Cambridge*
Holt, Orley Crocker	*Waukesha*
Holum, Fay Frances Esther	*Madison*
Hooper, Majel s e	*Oshkosh*
Hoover, Helen Grace	*Uniontown, Pa.*
Hopkins, Joseph Jackson	*Milwaukee*
Hopkins, Liona	*Wesley, Iowa*
House, William Henry	*Louisville, Ky.*
Houseworth, Ruth Ziesel	*Elkhart, Ind.*
Hughes, Frances Mary	*Downers Grove, Ill.*
Hull, Perry Miller	*Madison*
Hullinger, Katherine	*Chicago, Ill.*
Hunt, Katharine Elizabeth	*Fargo, N. Dak.*
Hupprich, Florence Louise s e	*Madison*
Husting, Nathaniel Bonduel	*Oshkosh*
Ingold, Harry Johnson, Jr.	*Appleton*
Ingraham, Dora Virginia	*Milwaukee*
Irwin, Gladys Genevieve	*Elroy*
Irwin, John Scott	*Denver, Colo.*
Jackson, Helen Hunt	*Birchwood*
James, Edna Altha	*Rockford, Ill.*
Jenson, Viola Leonora	*Madison*
Johnson, Ethel Elizabeth	*Sparta*
Johnson, Madeline Lela	*Madison*
Johnston, Walter Bailey	*Mineral Point*
Jones, Dorothy Mae	*Bangor*
Jones, Eulalia	*Turtle Creek, Pa.*
Jones, Genevieve Ross	*Madison*
Jones, Janet	*Wabash, Ind.*
Kaderabek, Erwin Joseph	*Manitowoc*
Kaeppel, Geraldine Dorothy	*Chicago, Ill.*
Kaminsk, Edith	*Philadelphia, Pa.*
Karel, Karl Francis	*Kewaunee*
Kasiska, Raymond John	*Baraboo*
Katowitz, Harry James	*Kenosha*
Kauffman, Janice Meredith	*Princeton*
Keck, Everett Blaine	*Kenosha*
Keen, Katherine E.	*Harrisburg, Pa.*
Kehl, Gertrude Maude s e	*St. Louis, Mo.*
Kelly, Eugene David	*Leavenworth, Kans.*
Kelly, Florence Virginia	*Wausau*
Kempton, Willett Main	*Madison*
Kennicott, Marjorie Barstow	*Chicago Heights, Ill.*
Kiessling, Oscar Edward	*Jefferson*
Kimbrell, Kathryn	*Fulton, Mo.*
Kinsey, Kersey Wood	*Arcadia, Nebr.*
Kirk, Elizabeth	*New Castle, Pa.*
Kirkhoff, Harris Smith	*Owen*

Kiser, Elliott Fox	*Eau Claire*
Klein, Margaret Viola	*Fort Atkinson*
Knight, Jocelyn Winthrop	*Racine*
Knights, Ida Belle s e	*East Aurora, N. Y.*
Kojis, Ferdinand George	*Milwaukee*
Kolberg, Everett Erick	*Phoenix, Ariz.*
Kostuck, John Thomas	*Amherst Junction*
Kotinsky, Ruth	*New Orleans, La.*
Kraft, Roa Iza	*Madison*
Lacey, James Theopholis, Jr.	*Madison*
Lahmann, Albert Henry Fred	*Milwaukee*
Lamb, Leslie Francis	*Madison*
Latimer, Margery Bodine	*Portage*
Law, Norbert John	*Hartford*
Leadstone, Helen Annette	*Chicago, Ill.*
Lawrence, Hans Will	*New London*
Leitz, Frank Bantley s e	*Grand Rapids, Mich.*
Leonard, Willard Leslie	*Riverside, Ill.*
Lepkovsky, Charles Albert	*Kenosha*
LeVeille, Allyn L.	*Ladysmith*
Lewis, Ivanelle Clarice	*Lancaster*
Ligare, Alice Louise s e	*River Forest, Ill.*
Lighty, Harold Kent	*Madison*
Lindsay, Mary Graeme	*Louisville, Ky.*
Llewellyn, Pauline	*La Grange, Ill.*
Lobaugh, Minnie Irene	*Clinton, Mo.*
Long, Elizabeth Clare s e	*Oak Park, Ill.*
Long, Wallace Adolph	*Markesan*
Loud, Gladys Ealenor	*New Madrid, Mo.*
Lunney, Julien Mandelert	*Chippewa Falls*
Lyon, Washburn Stark	*Milwaukee*
Mac Ananny, Dorothy Mabel	*Madison*
McCaffrey, Maurice H.	*Madison*
McCandless, Lee	*Davenport, Iowa*
McClimans, Grace	*Franklin, Pa.*
McCormick, Stuart Alexander	*Madison*
McDonald, Helen Marion	*Beaver Dam*
McGrath, John Edward	*Eau Claire*
McIntyre, Darrell Donald	*Avoca*
McKone, Irene Catherine	*Green Bay*
McLandress, Helen Sarah	*Stevens Point*
McLay, Marion Barlass	*Janesville*
McLean, Mary Wilson	*Menomonie*
MacLeod, Dorothy Mae	*Iowa Falls, Iowa*
McMurry, Harry Lee	*Bloomington, Ill.*
McMurry, Howard Johnstone	*Madison*
McReynolds, Cora Seville	*Manitowoc*
Mackin, Beda Roberta	*Madison*
Mainland, Esther Florence	*Oshkosh*
Mallari, Ismael	*Washington, D. C.*
Maloney, Evelyn Laura	*Fond du Lac*
Marsh, Gladys Margaret	*Madison*
Marshall, Elizabeth	*Madison*

Martin, Hester Lucy	*Michigan City, Ind.*
Martin, Theodore John	*Madison*
Martner, Helen Ervine	*Prairie du Chien*
Maxcy, Grace Louise	*Washburn*
Maxwell, Sara Christine	*Cookeville, Tenn.*
Mead, Dayton Richard	*Marinette*
Mead, Edwin	*Marinette*
Mead, Wilhelmina Elizabeth	*Merrill*
Mendenhall, Ann Louise	*Dayton, Ohio*
Meshinger, Ethel Aileen	*Dubuque, Iowa*
Meyer, Eugene Paul	*Milwaukee*
Meyer, Ovid Otto	*Rosholt*
Meyne, Margaretha Isabel	*Hortonville*
Miller, Arthur Richard	*Beloit*
Miller, Florence Vida	*Milwaukee*
Miller, Vanson Venorian	*Ladysmith*
Milliren, Russell Edward	*Stockholm*
Mills, Theodore Gilbert	*Milwaukee*
Minch, Helen Marie	*Belleville*
Mitchell, Marion McLean	*Madison*
Moebs, Helen Elizabeth	*Detroit, Mich.*
Moehlenpah, Marion	*Clinton*
Morgan, Aileen Emily	*Wilmot*
Morgan, Ruth Elizabeth	*Wilmot*
Morris, Robert Floyd	*Cambria*
Morrissy, Thomas Andrew	*Delavan*
Morrow, Inez Evelyn	*Hinsdale, Ill.*
Morse, Wayne Lyman	*Madison*
Morton, Aline s e	*Webster Groves, Mo.*
Moses, Doris Maud	*Delavan*
Mosher, Herman Alexander	*Milwaukee*
Moulding, Joseph Watkins, Jr.	*Delavan*
Moyer, Louise Patricia	*Rockford, Ill.*
Muehlberger, Edna Rose s e	*Hammond, Ind.*
Mulhall, Evelyn Beatrice	*Sioux City, Iowa*
Nelson, Laura Marsh	*Fort Atkinson*
Nemeroff, Sylvia Ruth	*Chicago, Ill.*
Neupert, Carl Nicholas	*London*
Newell, Douglas Kinney	*Kenosha*
Nielsen, Alma Katherine	*Gull Lake, Sask., Canada*
Nimlos, Mary Ruthella	*Madison*
Nimlos, Myrtle Iona	*Madison*
Norton, Eleanor Mae	*Algoma, Iowa*
Nuzurn, Thomas Ochsner	*Janesville*
Oakes, Dale Baker	*New Richmond*
Ochsner, Stanley Edward	*Prairie du Sac*
Olson, Harold Dewey	*Hudson*
Olson, Hartman Eugene	*McFarland*
O'Neil, Daniel Callahan	*Chippewa Falls*
Orton, Miriam Rockwood	*Darlington*
Osten, Earl Lester	*Mankato, Minn.*
Outhouse, Alice Irene	*Madison*
Owen, Laures Margaret	*Madison*

Paff, Marie Alice	*Wausau*
Page, Arlene Lenora	*Elkhorn*
Page, Ida Millicent	*West Allis*
Paine, Mildred Estella s e	*Kirksville, Mo.*
Palmquist, Laura Frances	*Lime Springs, Iowa*
Park, Allan Lamoreaux	*Stevens Point*
Parkhill, Edith Muriel	*Rochester, Minn.*
Parkhill, Ruth Willard	*Chicago, Ill.*
Parr, Dola Evangeline	*Eau Claire*
Parsley, Cleo	*St. Louis, Mo.*
Patrick, Dorothy Harris	*Chicago, Ill.*
Pattee, Helen Alden	*Pueblo, Colo.*
Patterson, Helen Virginia s e	*Appleton*
Pearson, Gertrude Emery	*Portage*
Perstein, Frances Ruth	*Madison*
Petterson, Walter Haastropp	*Ephraim*
Pflueger, Grace Marion	*Manitowoc*
Pfluegner, Dorothy Anita	*Milwaukee*
Piggot, Harvey Brown	*River Forest, Ill.*
Pinkerton, Harold Allen	*Waupaca*
Pinto, René Wentworth	*Madison*
Platten, Peter Michael	*Green Bay*
Polasky, Berenice Belle	*Kalamazoo, Mich.*
Pongratz, Douglas Blackwell	*Black River Falls*
Pope, George Guion	*Evanston, Ill.*
Porter, Anna Maude	*Evansville*
Posepny, Charlie Joseph	*Two Rivers*
Powell, Helen Elizabeth	*Milwaukee*
Prehn, Fred C.	*Wausau*
Pribnow, Mildred Hildégarde s e	*Virginia, Minn.*
Price, Hobart Candee	*Kenosha*
Price, Porter Bernard	*Goshen, Ind.*
Priest, Hazel May	*Washington, D. C.*
Purmort, Marian Norman	*Delavan*
Purmort, Max Wales	*Delavan*
Rathert, Charles Edward	*Chilton*
Rawson, Charles Albert	*Milwaukee*
Raymond, Jessie Lauretta	*Madison*
Ream, Margaret Magdalene s e	*Green Bay*
Regula, Catharine Anne	*Madison*
Replinger, Mildred Ruth	*Madison*
Retzer, John Peer	*Milwaukee*
Richards, Inez Jennette	*Ladysmith*
Richards, John Willis	*Madison*
Richter, Marion Christine	*Yakima, Wash.*
Rickeman, Louise Elliott	*Galena, Ill.*
Rinder, Elsbeth Violet	*Madison*
Risberg, Earl Livingstone	*Cumberland*
Risser, Frederic Emanuel	*Fountain City*
Risteen, Herbert Lyle	*Chippewa Falls*
Ritchie, Gorton	*Oak Park, Ill.*
Rivard, Raymond Robert	*Madison*
Roberts, Blanche Edna	*Union Grove*

Roberts, David Tracy	*Chicago, Ill.*
Roberts, Ethel Lillian	*Madison*
Rockwell, Helen Louise s e	*Oshkosh*
Roderick, Dorothy Evelyn	*Madison*
Rollins, Berenice	*Kankakee, Ill.*
Romberg, Henry August Anton	*Clintonville*
Rosenberry, Samuel Landfair	*Madison*
Rosenthal, Jeanette Hannah	*La Porte, Ind.*
Ross, Julia Anne	*Richland Center*
Rubel, Henry Scott	*Brightwaters, L. I., N. Y.*
Ruffolo, Anthony	*Racine*
Runkel, Violet Marie	*Prairie du Chien*
Runkel, Webber Paul	*Oconto*
Rush, Anna May	*Washington, D. C.*
Russell, Roger Bridgford	*Madison*
Rutter, Mary Lee	*Madison*
Sabin, Samuel Henry	*Academy, S. Dak.*
Sanborn, Katherine Yates	*Madison*
Sanford, Eleanor Roberts	*La Crosse*
Sanford, Leonard Laverne	*Viola*
Sarles, John Hallock	*Madison*
Sato, Junzo	*Hyogo, Japan*
Saunders, Benjamin Walker	*South Windham, Me.*
Sayles, Winnifred Hicks	*Baraboo*
Schafer, Elizabeth Eleanor s e	*White Havan, Pa.*
Scheinpflug, Ralph Kenneth	*Boscobel*
Schenk, Florence Caroline	*Madison*
Schenk, Gustave Paul	*Shawano*
Scheuer, Lucille Anna	*Mishicot*
Schidlo, Raymond Arthur	*Westfield*
Schlichting, Louise Augusta	*New York, N. Y.*
Schlimgen, Esther Julia	*Madison*
Schlotthauer, Daniel Eugene	*Madison*
Schneiders, Rufus Anton	*Marathon*
Schnell, Fred	*Portage*
Schnorbach, Elizabeth Phyllis	*Manistee, Mich.*
Schoelkopf, Ruth Anna	*Madison*
Scholl, Maynard Michael	*Fond du Lac*
Schroeder, Annieta Harmo	*Milwaukee*
Schroeder, Florence Marie	*Milwaukee*
Schroeder, Manila Mildred	*New Holstein*
Schubring, Irene Marie	*Madison*
Schulke, Walter Edward	*New Ulm, Minn.*
Schulz, Paul William	*Sheboygan*
Schwartz, Harry	*Waukegan, Ill.*
Scilley, Deddy Gordon	*Twin Falls, Idaho*
Scovill, Nellie Preston s e	*Rockford, Ill.*
Sells, Arthur Max	*Florence*
Severance, Marjorie Reun	*Milwaukee*
Shadbolt, Joy Elizabeth	*Milwaukee*
Shaner, Deborah Ione	*Philadelphia, Pa.*
Shartle, Ina Louise	*Middleton, Ohio*
Shear, Mary Beatrice	*Rosslyn, Va.*

Sheets, Lois LeRue s e	*Lakota, N. Dak.*
Shelby, Matilda s e	*Indianapolis, Ind.*
Shipley, Helen Virginia	*Lafayette, Ind.*
Shippen, Mary Anne	*Memphis, Tenn.*
Sholes, Elizabeth Latham	*Cranford, N. J.*
Shoults, Worth Edward	*Alexandria, Va.*
Sichler, Margaret Xentha	*Madison*
Sickels, Dorothy	*West Nyack N. Y.*
Sime, Ruth Christine	*Stoughton*
Simpson, Carl Franklin	*Tulsa, Okla.*
Simpson, Lucille	*Fort Wayne, Ind.*
Sinaiko, Abraham	*Madison*
Sinaiko, Isabel Jean	*Madison*
Singleton, Elizabeth Anne	*Wilmette, Ill.*
Slagg, Lowell Silverwood	*Edgerton*
Slagg, Stanley Wilmer	*Edgerton*
Sloman, Helen Margaret	*Dayton, Ohio*
Smith, Aline Perry	*Milwaukee*
Smith, Bentley	*Chicago, Ill.*
Smith, Hazel Adelle	*Mason City, Iowa*
Smith, Vivian Muir	*Baraboo*
Soref, Sam Meyer	*Milwaukee*
Sowers, Cliston s e	*Madison*
Stahlman, Stella Naomi	*Madison*
Steele, Eleanor Mary s e	*Pittsburgh, Pa.*
Steele, Leah Emma	*Sparta*
Stein, Frances	*Milwaukee*
Stevens, Myron Ray	*Madison*
Stilwill, Helen Katherine	*Sioux City, Iowa*
Stolpe, Edith Amanda	*Madison*
Stolte, Florence French	*Reedsburg*
Stondall, Helen Beatrice	*Madison*
Stone, Maysie	*Rochester, N. Y.*
Stoppenbach, Katherine Emily s e	*Shawano*
Straight, Alma LaVeta	*Fonda, Iowa*
Sullivan, Samuel John	*Madison*
Sullivan, Susie Mary	*Marshfield*
Suppiger, Edith Beatrice	*Highland, Ill.*
Swartzbaugh, Edith Blackford	*Toledo, Ohio*
Swensen, Helen Margaret	*Madison*
Swensen, Joel	*Eau Claire*
Swenson, Carl Henry s e	*Kaukauna*
Tallmadge, Guy Kasten	*Milwaukee*
Tatman, Phyllis Wright s e	*Kirkwood, Mo.*
Teichgraeber, Florine	*Emporia, Kans.*
Thayer, Adaline Elizabeth	*Marshalltown, Iowa*
Thompson, John Reginald	*Madison*
Thompson, Louise Willa s e	*Hallock, Minn.*
Thompson, Robert Clendenning	*St. Croix Falls*
Thoren, Florence Marie	*Rock Grove, Ill.*
Thorkelson, Mary Elizabeth	*Madison*
Thorsness, Edwin Trueman	*Cumberland*
Tolerton, Robert Isreal	*Alliance, Ohio*

Tormey, Harold Joseph	*Madison*
Trauba, Nobert Carl	*Marathon*
Tredwell, Thomas Allanson	*Brooklyn, N. Y.*
Trotter, Isabel Janet	*Virginia, Minn.*
Trulson, Borghilde Dagmar	*Stoughton*
Tuckerman, Gustavus, Jr.	*St. Louis, Mo.*
Turgeson, Fletcher	*Richland Center*
Turner, Beatrice Chouteau	*St. Louis, Mo.*
Tuttle, Agnes Neubauer s e	*Madison*
Tuttle, Elizabeth	*Shullsburg*
Tuttle, Fordyce Eddy	*Madison*
Tyler, Kathleen Lucille	*Glidden*
Vander Horst, Christel Louise	*Kalamazoo, Mich.*
Vastine, Blanche Adelia	*Oak Park, Ill.*
Wadmond, Ruth Elizabeth	*Delavan*
Wagg, Angelyn	*Appleton*
Wagner, Gladys Irene	*Madison*
Walczak, Bruno	*Milwaukee*
Walker, Alfred Edwin	*Hinsdale, Ill.*
Walker, Howard McKinley	*Madison*
Wallesz, Selma	*Milwaukee*
Waltemath, Harry Arthur	*North Platte, Nebr.*
Waters, Marie Welch	*South Raub, Ind.*
Watson, Ernest Starr	*Whitewater*
Webber, Gladys Irene s e	*Gary, Ind.*
Weeks, Albert William	*Chilton*
Weeks, Archie Schneider	*Chilton*
Weiss, Richard Glenn	*Madison*
Werrell, William Alexander	*Janesville*
Werth, Grace Amelia s e	*Markesan*
Westover, Della Cecil	*Groton, S. Dak.*
Wheeler, Jefferson Gregg	*Wauwatosa*
Wheeler, Lyman Edward	*Wauwatosa*
White, Wallace Beecher	*Burlington*
Whitfield, Esther Louise	*Cedar Rapids, Iowa*
Whitmeyer, Lillie Ann	*Aurora, Ill.*
Whitright, Gerald Maxwell	*Madison*
Wildeman, William J.	*Madison*
Williams, Dorothy Frances s e	*Chicago, Ill.*
Williams, Hugh Glynn	*Racine*
Williams, Rolland Franklin s e	*Edgerton*
Willoughby, Alfred	*Milwaukee*
Wimmler, Mildred Frieda	*Cleveland*
Winchester, Dorothy Vea	*Flint, Mich.*
Winslow, Mary Isabel	*Madison*
Wiswell, Mary May	*Elkhorn*
Wolff, Antoinette Heloise s e	*Madison*
Wolff, Frank Lewis	*Fond du Lac*
Wood, Thomas Stokely	*Duluth, Minn.*
Wuerpel, Margaret	*Clayton, Mo.*
Wurth, Walter William	*Madison*
Yabroff, Leah	*Sun Prairie*
Yale, Myrtle	*La Grange, Ill.*

Ylvisaker, Erling	*Zumbrota, Minn.*
Yunger, Elsa Koenig	*Milwaukee*
Zorn, Lucille Marie	*Mt. Pleasant, Ia.*

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Course in Commerce

Abramofsky, Edward Augustus	*Kenosha*
Allen, Daniel Lawrence	*Oshkosh*
Allen, Harry Daphne	*Madison*
Allen, Raymond Henry	*Elkader, Iowa*
Anderson, Elmer Walter	*Duluth, Minn.*
Anderson, Orvin Henry	*Janesville*
Anderson, Victor Christian	*Oshkosh*
Andrews, Ira Randolph	*Hazel Green*
Aronin, Abraham	*Racine*
Arvidson, Reuben Dewey	*Marinette*
Aschenbrener, Edmund Lawrence	*Park Falls*
Augustine, Harry Frederick	*Sturgeon Bay*
Avery, Gilbert Stiles	*Mason City, Iowa*
Axtell, Victor Vern	*Appleton*
Bacher, Carl	*Merrill*
Bailey, Jennie Dynes	*Elgin, Ill.*
Bailey, Mary Dynes	*Elgin, Ill.*
Balch, Harry William	*Madison*
Bartlett, George William	*Racine*
Beardsley, Vernon Charles	*Whitewater*
Berger, Eva Shirley	*Chicago, Ill.*
Bidwell, Myron Clarence	*Stevens Point*
Birdlebough, Everett Walter	*Winona, Minn.*
Blahnik, Vance Louis	*Ashland*
Blair, Cameron Alexander	*Plainfield*
Blakeman, Robert Irvine	*Indianapolis, Ind.*
Blount, William Kenneth	*Huron, S. Dak.*
Blum, Albert Edward	*Monticello*
Boerke, Elmer George	*Wausau*
Boerner, Frederick William	*Port Washington*
Boese, Martha Marie	*Ripon*
Boese, William Frederick	*Ripon*
Bollenbeck, Roman William	*Madison*
Boning, Herbert Edward, Jr.	*Milwaukee*
Bork, Herbert Arnold	*Milwaukee*
Borntraeger, Victor William	*Louisville, Ky.*
Boylan, Arthur Huntington	*Menomonie*
Branch, Philip Christopher	*Prentice*
Brann, August Franklin	*Baileys Harbor*
Breyer, Donald Percy	*Waupun*
Brill, Lawrence Arthur	*Milwaukee*
Brodie, Homer Vincent	*Eau Claire*
Brooks, Warren Charles	*Shawano*
Brown, Lloyd Joseph	*Madison*
Bruske, Herbert Edward	*South Milwaukee*
Buell, Harold Clark	*Lake Geneva*
Burney, Robert Levi	*Huron, S. Dak.*

Burt, Roland Willard	*Chicago, Ill.*
Canfield, James Yuill	*Cedar Rapids, Iowa*
Cantwell, Arthur Allen	*Shawano*
Cape, Mary Josephine	*Madison*
Cardinal, Fred Deane	*Ladysmith*
Carroll, Charles Kenzie	*Sauk City*
Chapple, Joe Mitchell	*Ashland*
Chase, Lucius Peter	*Madison*
Cheli, Peter Victor	*Calumet, Mich.*
Christianson, Arthur William	*Cambridge*
Christianson, Herbert Otto	*Cambridge*
Clarke, Harry Zacke	*Janesville*
Coates, Haskell Eugene	*Chicago, Ill.*
Cohen, Leo	*Park Falls*
Collinge, Francis Vernon	*Hartford*
Conlin, John Vincent William	*Madison*
Cornelius, John Church	*Madison*
Costello, Lorenz	*Eau Claire*
Cox, Vincent Aron	*Rockford, Ill.*
Crane, Wilder Willard	*Chippewa Falls*
Crosby, Harry Leonard	*Coggon, Iowa*
Cross, Wilson McGinnis	*Geneva, Ind.*
Cruzen, Randolph	*Paxton, Ill.*
Cusick, Francis Leroy	*Easton, Minn.*
Dahl, Lawrence Gustav	*Marinette*
Dallwig, Edgar Gustav	*Milwaukee*
Dassler, Gertrude	*Chicago, Ill.*
Davies, Roland John	*Dodgeville*
Davies, Thomas Homer	*Madison*
Decker, Alfred Dennis	*Chilton*
Degler, Louis Frederick	*Superior*
Delaney, Clarence Ambrose	*Madison*
Delbridge, Marjorie Anne	*Marinette*
Dergavitz, Aaron	*Milwaukee*
Dick, Edward Reed	*Ashland*
Doehler, Edward John	*Kewaunee*
Donlin, John Joseph	*Superior*
Dorsey, George Allen	*Kenosha*
Dougherty, James Kenneth	*Watertown, S. Dak.*
Douglas, Arthur Wallace	*Sparta*
Drew, Morgan	*Oshkosh*
Drought, Ralph James	*Milwaukee*
Edwards, Vivien Lynn	*Momence, Ill.*
Egan, Veronica	*Highland*
Ely, Robert Gilman	*Kenilworth, Ill.*
Engelke, Raymond Leslie	*Ashland*
Engler, Melvin B.	*New Glarus*
Evenson, Charles Robert	*Baraboo*
Evenson, Louis Orlando	*Antigo*
Fargo, Normand Albert	*Appleton*
Farr, John Alderson	*Eau Claire*
Fauerbach, Karl Haertel	*Madison*
Fechtner, Elmer Julius	*Merrill*

Fehlhaber, Orville Walter	*Wausau*
Felix, Katherine	*Prairie du Sac*
Fess, Georgia Lauretta	*Madison*
Fiddyment, Alice Martha	*Norfolk, Va.*
Finnegan, Harry Merville	*Marion, Iowa*
Fisher, Charles Theodore	*Madison*
Fisher, Edwin S. W.	*Janesville*
Flinn, Edith Mildred	*Baraboo*
Frank, George Dewey	*Davenport, Iowa*
Frawley, Edward Joseph	*Eau Claire*
Frawley, James Russell	*St. Croix Falls*
Freytag, Arthur Morwalt	*Chicago, Ill.*
Fridlund, LeRoy Courtney	*Chicago, Ill.*
Fuchs, Kurt	*Janesville*
Gaffney, Margaret Mary	*Madison*
Galby, Manford Casper	*Chetek*
Gallagher, Donald Francis	*Portage*
Ganser, Herbert Aloysius	*Sauk City*
Gardner, George Eddy	*Fargo, N. Dak.*
Gates, Claude Allan	*Walworth*
Gates, George Bauman	*Racine*
Gaustad, Einar H.	*Eau Claire*
Geier, Benjamin George	*Plymouth*
Gerhauser, Frank Eugene	*Appleton*
Gesteland, Elmer Raymond	*Janesville*
Gibbon, Alexander Myron	*Oshkosh*
Gibler, Ralph John	*Huntington, Ind.*
Giles, Claude Raymond	*Madison*
Goessling, Alfred Charles	*Milwaukee*
Golden, Harry Mitchell	*Milwaukee*
Goodhue, Katherine Doris	*Chicago, Ill.*
Goodrich, Franklin Earl	*Lone Rock*
Grashorn, Robert Edgar	*Sheboygan*
Gray, Frank Winchester	*Milwaukee*
Greenbaum, Arnold, Jr.	*Grand Rapids, Mich.*
Greenwood, Frederick Charles	*Lake Mills*
Greiling, Sidney Myron	*Green Bay*
Griffin, Thomas William	*Rockford, Ill.*
Griffith, Frances Willard	*Beloit*
Gulson, James Arthur	*Black Earth*
Gunell, Esther	*Merrill*
Halverson, Norman Mortimer	*Blair*
Hamann, Edwin John	*Johnson Creek*
Hansen, Hersey	*Ashland*
Hanson, Wilbur Sylvester	*Howard, S. Dak.*
Harrington, Delos James	*Elkhorn*
Harrington, Julia Anne	*Madison*
Harrington, Veronica Mary	*Madison*
Harris, Sumner Joseph	*Sturgeon Bay*
Harvey, Robert Wayne	*Oconto*
Hawks, Charles, Jr.	*Horicon*
Headley, Richard Mayfield	*Chicago, Ill.*
Henderikson, Sheldon Oliver	*Virginia, Minn.*

Hennessy, Martin Francis	*Lone Rock*
Henry, Robert Allison	*Macfarland*
Henschen, Walter Ernst	*Kenosha*
Heuer, Wilbur James	*Milwaukee*
Hill, Leslie Alexander	*St. Croix Falls*
Hobbins, William Suhr	*Madison*
Hoffman, Herman Miller Jacoby	*Terre Haute, Ind.*
Hoffman, Leslie John	*Madison*
Holcomb, Charles Edward	*La Crosse*
Homet, Francis James	*Camptown Pa.*
Hook, Joseph Porter	*Oak Park, Ill.*
Hopkins, Milo	*Brooklyn*
Huseby, Gordon Arnold	*Madison*
Ingwersen, Carl Henry	*Chicago, Ill.*
Inman, Arthur Charles	*Whitewater*
Iversen, Elsie Marie	*New Holstein*
Jackson, Edward Charles	*Aberdeen, S. Dak.*
Jaklon, Proehl Haller	*Louisville, Ky.*
James, Adelene Wilder	*Richland Center*
Janssen, Victor Ernst	*Mayville*
Jensen, Alfred Harold	*Beloit*
Johnson, Ardin Llewelyn	*Wautoma*
Johnson, Elmer Benjamin	*Madison*
Johnson, Oliver Joseph	*Eau Claire*
Jungers, Victor Francis	*Grafton*
Kaems, Milton Albert	*Sheboygan*
Kalley, Sylvester George	*Racine*
Katz, Meyer Ralph	*New Glarus*
Kaufmann, Otto Frederick	*Sheboygan*
Kelhofer, Alma Elizabeth	*Madison*
Keller, Oswald Louis	*Madison*
Kelly, Julius	*Mitchell, Nebr.*
Kenfield, Kenneth Elsworth	*Bemidji, Minn.*
Kidder, Walter Stanley	*Madison*
Killam, Maude Marie	*Milwaukee*
King, Wesley Brundige	*Greeley, Colo.*
Kirmse, Walter August	*Marinette*
Kirwin, Philip Francis	*Madison*
Klass, William Henrich	*Oconto*
Klein, Herbert Washington	*West Bend*
Klossner, Walter John	*Ricé Lake*
Klumb, George Alfred	*Wiggins, Miss.*
Knowles, Clay Gerald	*Mondovi*
Knowles, Harold Frederick	*Hillsboro*
Koch, Laurance Gerald	*Appleton*
Koehler, Ellinor Margaret	*Milwaukee*
Kolicek, Marie Marcella	*Mishicot*
Koltes, Raymond	*Dane*
Koons, Frank Myron	*Baraboo*
Kuehne, Otto Franz	*Kaukauna*
Kyle, Charles Cuscadin	*Menomonie*
Lang, Sidney James	*Madison*
Lemke, Arthur Carl	*Cadott*

Lewis, Robert Crego	*Milwaukee*
Licking, Ralph Herbert	*Milwaukee*
Lilly, George Butler	*La Crescent, Minn.*
Linke, Blaine M.	*Beloit*
Lins, Angeline Genevieve	*Spring Green*
Littell, Gla Eugene	*Spirit Lake, Iowa*
Lochner, Herman Peter	*Madison*
Long, Dorothy Helen	*Madison*
Lurie, Lee Gershon	*Green Bay*
Luther, Arleigh James	*Grantsburgh*
Lynaugh, Sabina Mary	*Madison*
McCarthy, Eugene James	*Flandreau, S. Dak.*
McKeever, Blanche Lowrie	*Wilmington, Del.*
McNamara, Merton John	*Antigo*
Mackie, Ethal Katheryn	*Green Bay*
Madden, William James	*Sawyer*
Maier, Karl Adolph	*Milwaukee*
Mallin, Max Weinstein	*Milwaukee*
Manion, James Emmett	*Fond du Lac*
Marcks, Elgie Chester	*Black Creek*
Marquette, Arthur Frederick	*Indianapolis, Ind.*
Mears, Claude Axtell	*Pepin*
Melham, Thomas Walter	*Watertown, S. Dak.*
Melzer, John Frederick	*Erie, Pa.*
Merrill, Harold William	*Arcadia, Ind.*
Meyer, Adeline Josephine	*Madison*
Meyer, Frank Paul	*Oshkosh*
Meyers, Gladys Anna	*Madison*
Mickelson, Paul Roosevelt	*Mankato, Minn.*
Miller, Earl W.	*Hopkins, Mo.*
Millman, Donald Simons	*Platteville*
Minshall, Cyrus Bertrand	*Madison*
Moeller, Frithjof	*Iola*
Moeller, Peter Rudolph	*Milwaukee*
Mokrejs, John	*Cedar Rapids, Iowa*
Monfried, M. Bernard	*Madison*
Montgomery, Ruth Eileen	*Riley, Mass.*
Morey, Donald Jackson	*Racine*
Murdoch, Harell Alexander	*Chicago, Ill.*
Nagle, Paul Francis	*Rock Rapids, Iowa*
Nee, Mary Jeanette	*Escanaba, Mich.*
Newcomb, Don Carlos	*Waupun*
Nichols, Lee Brownell	*Milwaukee*
Nickel, Walter John	*Sheboygan*
Noble, Henry Harnden, Jr.	*Madison*
Nolte, Phillip Pickering	*Wauwatosa*
Oakey, William Alfred	*Madison*
O'Hanlon Gerald John	*Milwaukee*
Okerstrom, Paul John	*Port Wing*
O'Laughlin Francis Daniel	*Madison*
O'Neil, Margaret Adelaide	*Madison*
Opitz, Harold Ferdinand	*Elkhorn*
O'Rourke, Joseph Glen	*Reedsville*

Oyen, Hjalmer Selmar	*Stoughton*
Pearson, Miles Curtis	*Fredonia, Kans.*
Perkins, Anson Walker	*Kenosha*
Peterson, Ephraim Lucius	*Stockholm*
Pettigrew, Wilbur Johnson	*Oconto*
Pfeiffer, Albert Herman	*Madison*
Pope, Henry, Jr.	*Chicago, Ill.*
Post, Clarence Arthur	*Milwaukee*
Pratt, Percy Lawrence	*Madison*
Preston, Herbert Wallace	*Bloomingburg, Ohio*
Prokop, Joseph John	*Eau Claire*
Quinn, Veronica Rose	*Madison*
Rae, John Marshall	*Storm Lake, Iowa*
Ransom, Eunice Rae	*Fennimore*
Rathert, Donald Everett	*Cresco, Iowa*
Redfield, Thomas Alphonso	*Rhinelander*
Reichert, Stephen Barnhardt	*Duluth, Minn.*
Repp, Carl Willard	*Huntington, Ind.*
Resnick, Leo	*Milwaukee*
Reyer, Harold Benedict	*Colby*
Reynolds, Karl Storrs	*Sturgeon Bay*
Reynolds, Robert Leonard	*Milwaukee*
Rhenstrom, Eric Vernon	*Kenosha*
Richards, Glenn Ellsworth	*Madison*
Riek, Forest Otto	*Rhinelander*
Riggert, Edwin William	*Reedsburg*
Robison, Burke Hinsdale	*Indianapolis, Ind.*
Roesch, Florence Ursula	*Arcadia*
Rohde, Bruno John	*Milwaukee*
Roick, Virgil Henry	*Baraboo*
Rossmeissl, Carl Albert	*Appleton*
Rothenburg, Robert Doehne	*Springfield, Minn.*
Ruediger, George Paul	*Fountain City*
Ruhl, Graham Alfred	*Des Moines, Ia.*
Russell, Louis Alfred	*Endeavor*
Sanborn, Edwin Wilfred	*Waupun*
Sanderson, George Webster	*Tripoli*
Schafer, Stanley	*Sheboygan*
Schenkenberg, Lester Forrest	*Waterford*
Schlosser, Helen Elizabeth	*Wauwatosa*
Schlotterbeck, Carl H.	*Spirit Lake, Iowa*
Schneider, Myrtle Dorothy	*Madison*
Schnell, Joseph Raymond	*Kenosha*
Schujahn, Edwin Ludwig Henry	*Fond du Lac*
Scott, Norman Denton	*Sioux Falls, S. Dak.*
Senneff, John Albert	*Mason City, Iowa*
Sexton, Joseph Cantwell	*Madison*
Shafrin, John Mink	*Milwaukee*
Shapiro, Herman	*Madison*
Shelhammaer, John Wesley	*Blackwell*
Sherry, Ruben Henry	*Viroqua*
Siegman, Orra Leslie	*Whitewater*
Sinaiko, Joseph Jack	*Madison*

Smart, Langley Edward	*Milwaukee*
Smith, Harold Clinton	*Madison*
Smith, James William	*Madison*
Smith, Loretta Katherine	*Cavour, S. Dak.*
Smith, Milo Erwin	*Huron, S. Dak.*
Snider, Elmer Newton	*Alden, Iowa*
Sniffen, Allan Burr	*Madison*
Sorensen, Alfred Christian	*Luck*
Sperl, Norman Michael	*Plymouth*
Sprackling, George Austin	*Janesville*
Sprecher, George Edward	*Madison*
Stadler, Edward Henry	*Two Rivers*
Stahlkopf, Elmer Carl	*Horicon*
Stamm, Georgia Edith	*Chicago, Ill.*
Stanley, Frederick James	*Baraboo*
Stibbe, Austin Julius	*Peshtigo*
Story, Byron Ferris	*Bozeman, Mont.*
Stuhler, Riess George	*Monticello, Iowa*
Swain, Viola	*Indianapolis, Ind.*
Sweetser, Donald Parker	*Poughkeepsie, N. Y.*
Swenholt, Caspar	*Madison*
Swift, John Dewey	*Darlington*
Symons, Robert Russell	*Dodgeville*
Tebell, Gustav Kenneth	*Aurora, Ill.*
Thompson, Earl Joseph	*Cottage Grove*
Thompson, Julius William	*Wabasha, Minn.*
Thomson, Gordon Stuart	*Duluth, Minn.*
Thwaits, Edmond Harrison	*Madison*
Tobey, Paul Titus	*Madison*
Trost, Arthur William George	*Milwaukee*
Trost, Wilma Marie	*Milwaukee*
Turner, Gilbert Charles	*Johnson Creek*
Upson, Carl Archie	*Madison*
Usher, William Robert	*Rhinelander*
Utgaard, Sigurd Byron	*Deer Park*
Van Ornum, Harry James	*Racine*
Vlack, Albert Wattawa	*Kewaunee*
Wallen, Silas Francke	*Taylor*
Ward, Gilbert Emanuel	*Fond du Lac*
Warren, Charles Picken	*Ft. Collins, Colo.*
Webb, William James	*Shullsburg*
Weeks, George Edward	*Davenport, Iowa*
Weeman, King Henry	*Shawano*
Wenzel, William Herman	*Marshfield*
Wepking, Esther Marguerite	*Lancaster*
Whaley, Julien Charles	*Benton*
Wheeler, J. Morgan	*Menasha*
White, Ben Cable	*La Crosse*
Wileman, Ralph Ernest	*Edgerton*
Willett, Howard Kline	*Plainfield, N. J.*
Williams, K. Germain	*Fond du Lac*
Wilson, George Alvin	*Warren, Ill.*
Wolcott, Herbert LuVerne	*Chetek*

Wood, John	*Cairo, Ill.*
Yaudes, Lloyd John	*Peshtigo*
Yerly, Francis Everett	*La Crosse*
Zarne, Alfred W.	*Milwaukee*
Zimmerman, Arthur Antonius	*Wisconsin Rapids*
Zuehlke, Helen Rose	*Fort Atkinson*

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Course in Chemistry

Aagesen, Nicholas Schuyler	*Milwaukee*
Andrews, Arthur Clinton	*Bloomer*
Baldwin, Oliver William	*Mountain*
Downie, Raymond Richard	*Madison*
Fitchett, Edmund MacDonald	*Janesville*
Gerhard, Jacob William	*Fond du Lac*
Getschman, Walter Edward	*Kenosha*
Gimmler, Elsa Henriette	*Milwaukee*
Hanson, Peter	*Washburn*
Harmison, Ruth	*Geneseo, Ill.*
Harwood, Arthur Albert	*Cassville*
Hewitt, Harold George	*Milwaukee*
Higley, Henry Parker	*Dubuque, Iowa*
Hubbard, Bruce Watson	*Evansville*
Lemcke, Carl Julius	*Merrill*
Meikle, John	*Monroe*
Morsbach, Edward Augustus	*Madison*
Moya, Carlos Ignacio	*Chili, South America*
Rasmussen, Holger Wurtz	*Racine*
Rowley, Margaret Leone	*Madison*
Royce, Harvey Day	*Ft. Atkinson*
Shiao, Lian Po	*Peking, China*
Tang, Tao Yuan	*Wusieh, China*
Veit, Herman Fred	*Milwaukee*
Ward, James Edward	*Elkhorn*
Williams, Inez Margaret	*River Falls*
Young, Ward Donovan	*Princeton, Minn.*

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Course in Journalism

Alleman, Harold Eugene	*Warsaw, Ind.*
Anderson, Ruth Julia	*Chicago, Ill.*
Bassman, Herbert John	*Milwaukee*
Batten, Waldo William	*Janesville*
Borchers, Bartel Benjamin	*La Valle*
Bowlby, Dorothy Katherine	*Waynesburg, Pa.*
Brachman, Philip	*Milwaukee*
Bradford, Sara Florence	*Eveleth, Minn.*
Brady, Kathryn Mary	*Quincy, Ill.*
Brooks, Jesse Herbert	*Delavan*
Bruns, Bernice Lillian	*Plymouth*
Burkhardt, Bertha Elman	*Chicago, Ill.*
Castle, Elizabeth Holyoke	*Quincy, Ill.*
Clare, Dorothy Grace	*Oak Park, Ill.*

Crosse, Richard Hugh	*Howard, Ill.*
Demarest, Charles Noyes	*Madison*
Diehm, Harold Frederick	*Remus, Mich.*
Dunn, Darrell Dewy	*Elroy*
Fable, Philip Carney	*Topeka, Kans.*
Fagg, Kenneth Stanley s e	*Wilmette, Ill.*
Foster, Helene Dorman	*New York City*
Geiger, George Lowell	*Leavenworth, Kans.*
Greene, George Webster	*Delavan*
Hahn, Dorothy Elizabeth	*Chicago, Ill.*
Hanson, Genevieve Florence	*Fond du Lac*
Harris, George Washburn	*Madison*
Hilpert, Anna Walter	*St. Louis, Mo.*
Hoard, Halbert Wenham	*Fort Atkinson*
Koltes, Florence Josephine	*Waunakee*
Lange, Ernestine Laura	*Chicago, Ill.*
Laun, Arthur Henry	*Elkhart Lake*
Lewin, Charles Julius	*Berlin*
Lugoff, Portia Barnett	*Duluth, Minn.*
Lyons, Rosemary	*Riverside, Ill.*
McClelland, Harold Edward	*Rice Lake*
McClure, Leslie Willard	*Litchfield, Minn.*
McConnell, Robert Sloan	*Greensburg, Pa.*
McDonough, Edward Jerome	*Edgerton*
Moore, Louise Clayborn	*Reynolds, Ill.*
Perry, Kathryn Illeen	*East Aurora, N. Y.*
Petersen, Gladys Irene	*Hutchinson, Kans.*
Pfister, Walter John	*Sheboygan*
Pickard, David Corvus	*Green Bay*
Powell, Harbeson Hickman	*Duluth, Minn.*
Powell, Horace Breese	*Milwaukee*
Rogers, Talbot King	*Long Beach, Cal.*
Rowland, David Hand	*Racine*
Ruff, Marjorie Ann	*Hammond, Ind.*
Shaw, Alice Merle	*Madison*
Siebert, Fred Seaton	*Mt. Iron, Minn.*
Sinaiko, Clara	*Madison*
Smallshaw, Hellen Frances	*Madison*
Steenberg, David Knox	*Milwaukee*
Tannewitz, William Joseph	*Madison*
Teare, Ruth Blanche	*Stillwater, Minn.*
Townsend, Hubert Force	*Hot Springs, Ark.*
Trier, Clare Anne	*Hurley*
Vincent, Elizabeth Hamilton	*Lake Forest, Ill.*
Walters, Dorothy Josephine	*Oak Park, Ill.*
Wangenstein, John Stuart	*Duluth, Minn.*
Worthington, Edith	*Washington, Ohio*
Zimmermann, Ethel Margaret	*Burlington*

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General Course

Cornell, William Augustus	*Evansville*
Dorward, William Gould	*Milwaukee*

Eulass, Margaret Anthony	*Chicago, Ill.*
Gunderson, Lea	*Oconomowoc*
Hilberts, Esther Elizabeth	*Jefferson*
Holman, Luther Leslie	*Madison*
Jacobus, Delwin Charles	*Wauwatosa*
Johnson, Silas Gaylord	*Mt. Horeb*
Stites, Archer A.	*St. Louis, Mo.*
Stoddard, Verner Lee	*St. Anthony, Idaho*
Sullivan, John Howard	*Delavan*

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Freshmen

Abaly, Donald Charles	*Madison*
Abele, Eugenie Eaton	*Madison*
Ackerman, Gladys Louise	*Sheboygan*
Adams, Alberta Altesca	*Madison*
Adams, Isabelle	*Charleston, Ill.*
Addenbrooke, Gwendolyn Marian	*Chicago, Ill.*
Ades, Diana Mae	*Pardeeville*
Adolphson, Signe Josephine	*Edgerton*
Alberti, Catherine	*Madison*
Alberti, Elizabeth	*Madison*
Alshuler, Dorothy Adelaide s e	*Milwaukee*
Altdoerffer, Mary Elisabeth s e	*Poland, Ohio*
Ambrose, Lucia Pauline	*Nevada, Iowa*
Anderson, Ann Elizabeth	*Columbus*
Anderson, Anna Sophia	*Park River, N. Dak.*
Anderson, Elmer Clark	*Kenosha*
Anderson, William McKinnon	*Phillips*
Andrew, Olive Merritt	*De Soto*
Anger, Jennie Margaret	*Oshkosh*
Armstrong, Beatrice Dorner s e	*Wyandotte, Mich.*
Armstrong, Elizabeth Laura	*Brooklyn*
Ashton, Robert Kyle	*Rhinelander*
Aspinwall, Mary	*Ft. Atkinson*
Atwater, Margaret	*Milwaukee*
Atwood, Robert B.	*Gays Mills*
Austin, Marian L.	*Milwaukee*
Aylward, Florence Luella	*Madison*
Bacon, Joy	*Evansville, Ind.*
Bagley, Lucile Margaret	*Madison*
Bailey, Carter	*Chicago, Ill.*
Baines, Marguerite	*Janesville*
Baker, Roger Denis	*Amherst, Mass.*
Bakken, Walter s e	*Madison*
Baldwin, Doris Mae s e	*Madison*
Baldwin, William Earl	*Gillett*
Ballam, Cyril John	*Marshfield*
Ballam, George Alfred	*Marshfield*
Barber, Alfred Russell	*West Bend*
Barnhart, Fannie Carter	*St. Louis, Mo.*
Barwig, Byron Ralph	*Mayville*
Bates, Angeline Nixon	*Indianapolis, Ind.*

Bates, Aubrey Ashcroft	*Madison*
Bauman, Dorothea Marie	*Milwaukee*
Baumann, Eugenie Adele	*Winona, Minn.*
Baumgarten, Myrtle Lydia	*Chicago, Ill.*
Beattie, Lois Beryl	*Washington, D. C.*
Beebe, Louis	*Sparta*
Bell, Edwin Paul	*Oshkosh*
Bell, Morris Adam	*Oshkosh*
Bellows, Charles F.	*Maryville, Mo.*
Bemis, Josephine Doris s e	*Rice Lake*
Benson, George Bancroft	*Richland Center*
Bentley, Florence Elizabeth	*Madison*
Benyas, Samuel A.	*Appleton*
Berry, Ida Estelle	*Chicago, Ill.*
Bier, John Henry	*Mt. Horeb*
Bigelow, Portia Le	*Omaha, Nebr.*
Biglow, Elizabeth Agnes s e	*Evansville*
Bliss, Sidney Howard	*Janesville*
Blodau, George Emil	*Madison*
Blodau, Ottilia Caroline	*Madison*
Blossom, John Dickson	*Peoria, Ill.*
Bock, Adolph Bismark Card	*Sheboygan*
Boerner, Gladys Marie	*Milwaukee*
Bogue, Everett Alan	*Sioux Falls, S. Dak.*
Boies, John Walter	*Centuria*
Bolliger, Louise Virgilia	*Madison*
Bonnell, John Brainard	*Milwaukee*
Bonner, John Thomas	*Juneau*
Botsford, Wilhelmina Isabelle	*Janesville*
Botten, Isa Olivia	*Boscobel*
Boyd, Catherine Hahn	*Sturgeon Bay*
Boyd, Laura Corinne	*Kaukauna*
Braasch, Theodore William	*Sheboygan*
Bradford, Dorothy	*Milwaukee*
Bradford, Helen Elizabeth	*Appleton*
Bradford, Josephine Mary	*Appleton*
Brandt, Myrtle Henrietta	*Nekoosa*
Brannum, Helen	*Chicago, Ill.*
Brede, Marie Catherine	*Detroit, Mich.*
Brennecke, Margaret s e	*Aurora, Ill.*
Brereton, Ione	*Dane*
Brewer, Constance Bernice	*Argyle*
Briggs, Helen Gertrude	*Lansing, Mich.*
Brindley, Benjamin Isaac	*Boscobel*
Brooks, Arbie LeRoy	*Sparta*
Brooks, Mildred Adelaide	*Shawano*
Brown, Albert Harlan	*Ripon*
Brown, Lillian Mary	*Neenah*
Brown, Margaret Louise	*Waupun*
Brown, Theodore Taggart	*Madison*
Browne, Lucille Mary	*Racine*
Bruno, Emilie Margaret	*Washington, D. C.*
Bryant, Mignon Sale s e	*Joliet, Ill.*

Bull, Mason	*Redfield, S. Dak.*
Burch, Ramona	*Pecatonica, Ill.*
Burchard, Mary Janet	*Ft. Atkinson*
Burger, Marjorie Adamson	*Ashland*
Burke, Lillian Sarah	*Milwaukee*
Burkman, Florence Lannea	*Roscoe, Ill.*
Butler, Eleanor Bell	*Berwyn, Ill.*
Butterfield, Beatrice Irene	*Chicago, Ill.*
Butterfield, Howard Millard	*Amherst, Mass.*
Buttweiler, Helen Lois	*Indianapolis, Ind.*
Caldwell, Lester Earl	*Morrisonville*
Calvert, Irene Lavinia	*Darlington*
Campbell, Margaret Gailey	*Chicago, Ill.*
Carlsen, Elmer Walter	*Blanchardville*
Carpenter, Margaret Marie s e	*Baraboo*
Carter, Leslie Homer	*Milwaukee*
Case, Paul Weckler	*Sycamore, Ohio*
Cavanagh, Gladys Louise	*Madison*
Cavanaugh, Marion Ann	*Crystal Falls, Mich.*
Cherry, Jeannette	*Kenilworth, Ill.*
Clancy, Louise Laura	*Evanston, Ill.*
Clancy, Margaret Caroline	*Chicago, Ill.*
Clapp, Neva Jane	*Madison*
Clark, Freda Alberta	*St. Louis, Mo.*
Clark, Helen Harris	*Williston, Vt.*
Clark, Helen Hartnett	*Chicago, Ill.*
Clark, Lucile Thornton	*Reedsburg*
Clark, Norman Charles	*Milwaukee*
Cole, Kathryn	*South Bend, Ind.*
Colean, Clara Elizabeth	*Peoria, Ill.*
Colman, Niles Sexton	*Eagle River*
Conners, Nelson David	*Chippewa Falls*
Conners, Randolph Rogers	*Chippewa Falls*
Conners, Richmond Barker	*Chippewa Falls*
Corbett, Catharine Mary s e	*Plymouth*
Costigan, Florence Anne	*Madison*
Cowan, Grace Adeline	*Amherst, Mass.*
Cramer, Stella Mae	*Madison*
Crandell, Luetta Bernice	*Oak Park, Ill.*
Crane, Frank Dougáll	*Chicago, Ill.*
Crane, Frederica Wells	*Quincy, Ill.*
Crary, Ida	*Streator, Ill.*
Crowley, Sylvester Daniel	*Madison*
Cumming, Janet Mary	*Milwaukee*
Cushman, Doris	*St. Paul, Minn.*
Czamanske, Paul William	*Sheboygan*
Daggett, Ruth Eleanor	*Ottumwa, Iowa*
Dahle, Orris Benjamin	*Madison*
Dake, Harris Willsie	*Mason City, Iowa*
Damez, Marie Katharine s e	*Manitowoc*
Darby, George Odell Switzer	*Brodhead*
Davidson, Emily Katheryn	*Hinsdale, Ill.*
Davies, Alice Julia	*Milwaukee*

Davis, Alice Ashford Sheldon	*Madison*
Davis, Catherine	*Oak Park, Ill.*
Davis, Charlotte Andre	*Racine*
Davis, George Keith	*Madison*
Davison, Edgar Thomas	*Beaver Dam*
Dawson, John Coleman	*Dalhart, Tex.*
Dawson, Thelma	*Madison*
Dedrick, Calvert Lampert	*Madison*
DeVinney, Sylvan Shetterly	*Anderson, Ind.*
Dewey, Ruth Emma	*Middleton*
Dickson, Martha Webb	*Freeport, Ill.*
Diefenderfer, Mary Nichols	*Chicago, Ill.*
Diefenthaler, Marjorie	*West Salem*
Dietrich, Carlisle	*Madison*
Dietrich, Katharine Packard	*Racine*
Diment, Alice Mary	*Mazomanie*
Dodge, Wilbur Charles	*Wausau*
Domke, Gertrude Marian	*Rochester, Minn.*
Donahue, Margaret Eleanor	*Milwaukee*
Donovan, Cornelius Edward	*Waterloo*
Dorau, Armin Carl	*North Fond du Lac*
Douglas, Carlton Egbert	*Milwaukee*
Doyle, Alice Rebacca	*Douglas, Wyo.*
Drought, Rose Alice	*Milwaukee*
Dugan, Ross Frank	*Memphis, Tenn.*
Duncan, Glenn Allen	*Madison*
Dunn, Florence Sembrich	*Erie, Pa.*
Eaton, Dorothy Louise	*Madison*
Edie, George L.	*Madison*
Edwards, Muriel Montana	*Malta, Mont.*
Edwards, Thomas Rees	*Cuba City*
Egan, Oswald Richard	*Highland*
Ehrlich, Kamma Evelyn	*Racine*
Eiseman, Cecil Lenore	*Chicago, Ill.*
Eken, Ruth Jeanette	*Madison*
Ekern, Lila May	*Madison*
Ellingson, Harvey Thomas	*Wautoma*
Elliott, Mary Helen	*Sioux Falls, S. Dak.*
Ellis, Joyce DeVoe	*Madison*
Elsom, Elizabeth Reams s e	*Madison*
Elsom, Kendall Adams	*Madison*
Emanuel, Karl William	*Shawano*
Emmel, Florence A.	*Madison*
Epstein, Ethel Ruth s e	*Delavan*
Erenfeld, Fred Robert	*Minot, N. Dak.*
Erickson, Howard Lyle	*Madison*
Erickson, Milton Hyland	*Beaver Dam*
Erlandson, Virginia Ann	*Evanston, Ill.*
Eschweiler, Paul O.	*Madison*
Fair, Russell Eugene	*Trenton, Mo.*
Farnsworth, Richard Wiggin	*Janesville*
Farrand, David Osbourne	*Green Bay*
Farrand, Wallace Crugar	*Melrose*

Farrell, Pauline Jane	*Chicago, Ill.*
Farrington, Isabel	*Madison*
Fathauer, Margaret Louise	*Chicago, Ill.*
Feeney, Agnes Mary	*Madison*
Feeney, Anne Mary	*Madison*
Feeney, Catherine Mary	*Madison*
Fehrmann, Harold Albert	*New London*
Field, Ted Howard	*Rice Lake*
Findersen, William Ellsworth	*Oshkosh*
Fischer, Kathryn Marie	*Fennimore*
Fisher, Goebel Earl	*Timber Lake, S. Dak.*
Fitzgerald, John Drake	*Milwaukee*
Flanagan, Clement Michael	*Antigo*
Flanner, Julia Maude	*Blackwell*
Fletcher, Winifred Lucile	*Kalamazoo, Mich.*
Flowers, Earl Harry	*Oconto Falls*
Foley, John James	*Madison*
Foote, Alma Lorine	*Madison*
Foster, Everett Charles	*Forest City, Iowa*
Foucht, Isabel	*Chicago, Ill.*
Fowlie, Frances Willard	*White Sulphur Springs, Mont.*
Fox, Edward James	*Red Granite*
Fox, Florence	*Glencoe, Ill.*
Fox, Lillian Elizabeth	*Waterloo*
Foy, Torrey Byers	*Freeport, Ill.*
Frank, Clarence Monroe	*Chicago, Ill.*
Frank, Dorothy Jane	*Chicago, Ill.*
Frautschi, Walter Albert	*Madison*
Fromm, Arno Henry	*Elkhart Lake*
Fuller, Katherine	*Madison*
Gaerth, Will Carl	*Cumberland*
Gallagher, Floyd Charles	*Madison*
Gallagher, Margaret Ruth	*Wilmette, Ill.*
Gannon, Elsie Katherine	*Mukwonago*
Gannon, Gladys Marie	*Madison*
Gardner, Kenneth Stuart	*Kansas City, Mo.*
Gebhardt, Anna Louise	*Juneau*
Gehrke, Harry Helmut	*Manawa*
Gericke, Lucile Wilhelmina	*Lake Mills*
Gibson, Douglas Nelson	*Cumberland*
Gibson, Earl Arthur	*Madison*
Gilkison, Helen Mae	*Pierre, S. Dak.*
Gill, Ralph Gregory	*Madison*
Gissal, Elizabeth Emma Ann	*Alton, Ill.*
Glanville, Berta Lorian	*Chicago, Ill.*
Goddard, Joseph Archibald	*Muncie, Ind.*
Godfrey, Theodore Bruce	*Aurora, Ill.*
Goldberg, Claire Jean	*Racine*
Goldberg, Yvette Zara s e	*Kenosha*
Goldsmith, Walter Joel	*Milwaukee*
Goldthwaite, Mary Thayer	*Boone, Iowa*
Gorman, Gerald	*Chicago, Ill.*

Gormley, Doris	*Spokane, Wash.*
Graper, Laura Mabel	*Ft. Atkinson*
Grassfield, Norman Andrews	*Waverly, Iowa*
Greene, Harriette Louise	*Evansville*
Griffith, Virginia Roseberry	*Washington, D. C.*
Grimm, Walter Joseph	*Madison*
Gunderson, Ole, Jr.	*Madison*
Guthrie, William Mackey	*Indiana, Pa.*
Guy, Emmett Frank	*Milwaukee*
Haack, Reuben Carl	*Sheboygan*
Haase, Gertrude Marie	*Milwaukee*
Haber, William	*Milwaukee*
Haberman, Helen Lydia	*Madison*
Hale, Elizabeth Louise	*Chicago, Ill.*
Hall, Maurine s e	*Normal, Ill.*
Hall, Theo. Foxon	*Detroit, Mich.*
Halperin, Myron	*Madison*
Halsor, Arthur Robert	*De Forest*
Halverson, Alta Reba	*Madison*
Hanchette, Alice Harris	*Detroit, Mich.*
Handcock, Esther Virginia	*Santa Domingo, S. Dom.*
Hanks, Stuart Ross	*Powers Lake, N. Dak.*
Hanson, Lucille Geraldine	*Eau Claire*
Hanson, Mildred Alva Theresa	*Rio*
Harris, Ellen Wilson	*Athens, Pa.*
Harsh, William Alexander	*Milwaukee*
Hastings, Laurens Grove	*Bronxville, N. Y.*
Haswell, Helen Alvira	*Madison*
Haswell, Rachel Loomis	*Madison*
Hathaway, Mildred Isabel	*Chicago, Ill.*
Hausmann, Carl G.	*Madison*
Hausman, Helen Amanda	*Madison*
Hazelwood, Clark John A.	*Madison*
Heim, Frances Louise	*Madison*
Heise, Cornelia Dorothea	*Green Bay*
Held, Henry Jacob	*Milwaukee*
Hellebrandt, Frances Anna s e	*Oak Park, Ill.*
Heller, William	*Newark, N. J.*
Henderson, Fred Cameron	*Niles, Mich.*
Hendra, Elmore Hutchinson	*Madison*
Hendrickson, Helen Marie	*Dodgeville*
Henkle, John Robert	*Chicago, Ill.*
Henika, Evangeline Cecelia	*Madison*
Henrickson, Hilding Frederick	*Rockford, Ill.*
Hermsmeier, Eleanora Mathilda	*Madison*
Herrman, Roy Frederich	*Sparta*
Herzberg, Willia Sidney	*Milwaukee*
Heuston, Emory Mark	*Tacoma, Wash.*
Hewitt, Fred Charles	*Madison*
Higgins, Frank Alfred	*Madison*
Hiles, Elberta Alice	*East Aurora, N. Y.*
Hill, Fred Clark	*Crivitz*
Hill, Macasalyn Elizabeth	*Antigo*

Hilles, Marian Ruth	*Bourbon, Ind.*
Hindes, Hubert John	*Ableman*
Hines, Clara Aurelia	*Cumberland*
Hinman, Mildred	*Sandwich, Ill.*
Hipple, Frances W.	*Madison*
Hirsh, Herbert William	*Milwaukee*
Hirsig, Josephine Marie	*Madison*
Hocking, George Drew	*Waupaca*
Hoey, Myrvin C.	*Centuria*
Hoffman, Melvin Morris	*Chicago, Ill.*
Hogseth, Leonard Oliver	*Chippewa Falls*
Hollister, Donald Edgar	*Milwaukee*
Holzman, John Henry	*North Freedom*
Hopkins, Bertrude Earl	*Centuria*
Hopkins, Mary Louise	*Morrisonville*
Horstmeier, Paul Henry	*Madison*
Horton, Stephen Van Dyke	*Oak Park, Ill.*
Howell, Claire	*Fennimore*
Huckle, Esther Gwendolyn	*Lapeer, Mich.*
Hughes, Frances Willard	*Janesville*
Hughes, Gladys Helen	*Washington, D. C.*
Hume, Loren Alexander	*Green Bay*
Hungerford, Helen W.	*Coldwater, Mich.*
Hunting, Helen Thompson	*Cedar Rapids, Iowa*
Huntington, Thelma Amelia	*Darlington*
Hurley, John Joseph	*Milwaukee*
Hutchinson, Alfred Baldwin	*Weyauwega*
Ilett, Phyllis	*Chicago, Ill.*
Immel, Leone Charlotte	*Fond du Lac*
Ingebritsen, Gladys Anna	*Madison*
Ingram, Helen Faith	*Rice Lake*
Irwin, Galen Seton s e	*Roachdale, Ind.*
Irwin, James Wesley	*Madison*
Iverson, Anna Mae	*Tomahawk*
Jackson, Alice Edith s e	*River Forest, Ill.*
Jackson, Julia Morris	*Madison*
Jacobs, Edith Marian	*Oklahoma City, Okla.*
Jacobs, Helen Ruth	*Oklahoma City, Okla.*
Jacobs, Lois Eleanor	*Milwaukee*
Jacobsen, Clara Lenore s e	*Madison*
James, Dorothy Mabel	*Oshkosh*
Jamieson, Lucy	*Poynette*
Jamieson, Paul Herbert	*Burlingame, Kans.*
Jenkinson, David Lester	*Minocqua*
Jensen, Alice	*Madison*
Jensen, Ruth Evelyn	*Stoughton*
Job, Mary Bell	*Chicago, Ill.*
Jobse, Mabel Ruth	*Milwaukee*
John, Frederick Charles	*Milwaukee*
Johns, Cedric Perkins	*Dodgeville*
Johns, Charles Hill	*Milwaukee*
Johnson, Alice Carolyn	*Waupaca*
Johnson, Dorothy Trathine	*Omaha, Nebr.*

Johnson, Erilla	*Des Moines, Iowa*
Johnson, Everett Irving	*Oconto Falls*
Johnson, Frederick Harry	*Phillips*
Johnson, Gertrude Dorothy	*Rockdale*
Johnson, Helen Louise	*New Ulm, Minn.*
Johnson, Mildred Elvira	*Madison*
Johnson, Vincent Clifton	*Madison*
Jones, Anita Margaret	*Spring Green*
Jones, Arletta La Von	*Black River Falls*
Jones, Ethel Loretta	*Waupun*
Jones, Kenneth Thomas	*Madison*
Jones, Rowland Graham	*Gettysburg, S. Dak.*
Jones, Ruth Harriet	*Madison*
Jones, Sarah Bertha	*Birchwood*
Jorns, Byron Carl s e	*Portage*
Joy, Janice	*Chicago, Ill.*
Judson, Marcella	*Chicago, Ill.*
Juneau, Marion Mabel	*Milwaukee*
Jung, Josephine	*Milwaukee*
Junkins, Myron Baker	*Wauwatosa*
Kaemmer, Edith Louise	*Almena*
Kapp, Edgar Benjamin	*Milwaukee*
Kasdin, Gertrude	*Madison*
Kauffman, Chloe Helen	*Princeton, Mo.*
Kay, David Theodore	*Madison*
Keech, Josephine Sara	*Racine*
Keene, Philip Hamilton	*Freeport, Ill.*
Keeney, Helen Loraine s e	*Milwaukee*
Kellogg, Grace Hopkins	*Milwaukee*
Kempton, Elizabeth	*Madison*
Kennan, Jeanette Sinclair	*Milwaukee*
Kennard, Elmer Everett	*Norfolk, Nebr.*
Kennedy, Sarah Katherine s e	*Youngstown, Ohio*
Kenney, Catherine Ethleen	*Madison*
Kerr, Georgiana Mildred	*Green Bay*
Kerwin, Joseph James	*Madison*
Kessenich, Mark Frank	*Madison*
Kietzmann, Elmer Gustav s e	*Westfield*
Kimberly, Georgiana	*Chicago, Ill.*
King, Corinne Catherine	*Mazomanie*
Kingsford, Helen Stewart	*Baraboo*
Kinsey, Louise	*Arcadia, Nebr.*
Klaesson, Kathryn Burtram	*Madison*
Klein, Esther Wilson	*Natick, Mass.*
Klicka, Helen Josephine	*Chicago, Ill.*
Klos, Henry William, Jr.	*Madison*
Klosterman, Clara Flora	*Shawano*
Klueter, Katherine Dorothy	*Madison*
Klug, Arleen Druse	*Milwaukee*
Knecht, Elizabeth S.	*Chicago, Ill.*
Knight, Ellen Charlotte	*Evanston, Ill.*
Koepcke, Gerald Mienhard	*Madison*
Kohl, Martha	*Marshfield*

Koschin, Eleanore Alice	*Racine*
Kowalke, Marie Henrietta s e	*Sheboygan*
Kranert, Isabelle Margaret	*McGregor, Iowa*
Krembs, Helen Margaret	*Chicago, Ill.*
Kremers, Carl Gerhard	*Madison*
Krieser, Lionel Ira	*Green Bay*
Krohn, Robert Tollack	*Black River Falls*
Kroncke, Gretchen s e	*Madison*
Kroster, Gladys Evangeline	*Cambridge*
Krieger, Lilly Louise	*Ripon*
Kubly, Edna May	*Monroe*
Kuehn, Else Martha	*Milwaukee*
Kulp, Pearl Eva	*Emmetsburg, Iowa*
Kvammen, Olga Marie	*Decorah, Iowa*
Lachmann, Edmund J.	*Neenah*
Laland, Howard	*Rhinelander*
Lambert, Doris Emily	*Quincy, Ill.*
Landa, Julio Felix	*Lima, Peru*
Lang, Francis Clark	*Mason City, Iowa*
Lange, George Frederick	*Columbus*
Lange, Paul	*Delavan*
Langholff, Anita Catharine	*Milwaukee*
Langstadt, Claire Virginia	*Appleton*
Larson, Arvid Oliver	*Ironwood, Mich.*
Larson, Lucile L.	*Madison*
Laun, Donald D.	*Milwaukee*
Lawrence, Vernon	*Sparta*
Leitzell, Muriel Jane	*Benton*
Le May, Emma Virginia	*Cobban*
Lenher, George Blood	*Madison*
Lenher, Samuel	*Madison*
Lenz, Arnold Arthur	*Tomah*
Levitt, George	*Phillips*
Levy, Harold Lewis	*Chicago, Ill.*
Lewis, Frances Alice	*Madison*
Lewis, Helmar Ariel	*Macfarland*
Lewis, Mary	*Dodgeville*
Libbey, Eleanor Ruth	*Oshkosh*
Libby, Catherine Hildebrandt	*Indianapolis, Ind.*
Lind, Violet Keen	*Hillsboro*
Lins, Beatrice Martha	*Spring Green*
Lloyd, Catherine de Wolf	*Chicago, Ill.*
Lockhart, Margaret Janet	*Milbank, S. Dak.*
Loeffler, Lois Ethelwyn s e	*Armour, S. Dak.*
Loranger, Paul Davis	*Janesville*
Louden, Roberta Biddle	*Fairfield, Iowa*
Ludden, Raymond Horace	*Bloomington*
Luedke, Hildegarde Angelia	*Milwaukee*
McCaffery, Agatha Grace	*Madison*
McClymont, Jessie Clay	*Milwaukee*
McConkey, Fay Bernice	*Clinton, Ill.*
McDermott, Malcolm Francis	*Janesville*
MacDonald, Douglas James	*Oskkosh*

McDonald, John Edwin	*Pardeeville*
McGarty, Patricia Helen	*Mauston*
McGrath, Malcolm Francis	*Elkader, Iowa*
Mac Gregor, Donald Alexander	*Westfield*
MacGregor, James Gordon	*Fargo, N. Dak.*
McHugh, Clifford Joseph	*Chilton*
McKay, Katherine	*Decorah, Iowa*
McKy, John	*Blue River*
McNamara, Jean Elizabeth	*Janesville*
McNeil, Emerson Duncan	*Virginia, Minn.*
McShane, John Leo, Jr.	*Pittsburg, Pa.*
McWhorter, Joseph Reger	*Lewisburg, W. Va.*
Mabley, Elaine Elizabeth	*St. Louis, Mo.*
Mackin, Alice Eliza	*Madison*
Madden, Louise Eunice	*Menominee, Mich.*
Magaurn, Florence Louise	*Green Bay*
Mahlke, Pearl Katherine	*Madison*
Mahony, Florence Elizabeth	*Chicago, Ill.*
Mainland, Kenneth Sinclair	*Oshkosh*
Maitland, Francis William	*Milwaukee*
Mann, Anabel	*Evansville, Ind.*
Marquis, Jean s e	*Berwyn, Ill.*
Marshall, Janet Kathryn s e	*Milwaukee*
Martens, Alice Lilian	*Kaukauna*
Martin, Albert Franklyn	*Chicago, Ill.*
Mayall, Edith Marie	*Clinton, Ill.*
Mayer, Dorothy Luella	*Devils Lake, N. Dak.*
Mayer, Virginia Iris	*Chicago, Ill.*
Mecartney, Earl Newell	*Hinsdale, Ill.*
Meining, Helen Louise	*Duluth, Minn.*
Mercer, Isabel Gillette	*Saginaw, Mich.*
Merry, Harold Monroe	*Madison*
Metcalf, Marian Jessie s e	*Merrill*
Metcalf, Ralph	*Spring Green*
Metz, Frances Rosina	*Madison*
Meyer, Dorothy Caroline Louise	*Hastings, Minn.*
Millar, Janet Lockhart	*Madison*
Millard, Allen La Mont	*New London*
Miller, Bob T.	*Logansport, Ind.*
Miller, Earl Daniel	*Marion*
Miller, Enoch Walter	*Sheboygan*
Miller, Hazel Katherine	*Racine*
Miller, Morris	*New York City, N. Y.*
Miner, Ruth	*Charles City, Iowa*
Mitchell, Lawrence Montgomery	*Oregon*
Moehlman, Freda Ann	*Madison*
Moeser, Marshall William	*Pt. Washington*
Montgomery, Caryl Kathryn	*Evansville*
Montgomery, Elizabeth Bradford	*Memphis, Tenn.*
Mooradian, Margaret Alta	*Madison*
Moore, Clara Louise	*St. Cloud, Minn.*
Moore, Lester Thomas	*Wilmette, Ill.*
Moore, Margaret	*Thorntown, Ind.*

Moraux, Harvey Sylvester	*Luxemburg*
Morgan, Arthur Patrick	*Superior*
Morgan, Eleanor Louise s e	*Madison*
Morgan, Mildred	*Madison*
Morris, Ada Josephine	*Rice Lake*
Morris, La Nora Irene	*Madison*
Morrissey, Donald Rothman	*Chilton*
Morrissey, Lucille Clara	*Madison*
Morse, Herbert	*Milwaukee*
Morton, Elizabeth Blanche	*Sioux City, Iowa*
Moses, Margaret Elizabeth	*Eau Claire*
Mower, Donald Clayton	*Black River Falls*
Mueller, Rosella Elizabeth	*Madison*
Muenzberg, Paul Henry	*Milwaukee*
Mulhall, Mary Louise	*Sioux City, Iowa*
Murch, George Jago	*Chicago, Ill.*
Muren, Myrtle Gertrude	*Madison*
Murphy, John Falk	*Madison*
Murray, Margaret s e	*River Forest, Ill.*
Myers, Leone Dorothea	*Racine*
Nachtigall, Lillian Elizabeth	*Marinette*
Nammacher, Traugott Herman	*Oconomowoc*
Nappe, Edgar Herman	*Elkhorn*
Neff, Marcelia Coad	*Milwaukee*
Nelson, Gladys Le Ellen	*Madison*
Nelson, Ruth Eleanor	*Chicago, Ill.*
Netzow, Lillian Cecille	*Milwaukee*
Neu, Evalyn Anna	*Prairie du Sac*
Newell, Pauline La Tourette	*Evanston, Ill.*
Nichols, Harriet Katherine	*Madison*
Nienaber, Margarette Eleanor	*Madison*
Nixon, Fluvia Corinne	*Racine*
Noer, Rudolph Juul	*Wabeno*
Nye, Charlotte Elizabeth	*Madison*
Odell, Athol Francis	*Quincy, Ill.*
Oldham, Mary Moore	*Eddyville, Iowa*
Oleson, Grunow Otto	*Rewey*
Oscar, Helen Grace	*Madison*
O'Shea, Katharine Gaylord	*Madison*
Osius, Elizabeth Gertrude	*Detroit, Mich.*
Ozburn, Marguerite Helen	*Oregon*
Ozburn, William Angus	*Oregon*
Pabst, August Uhlein	*Oconomowoc*
Pantzer, Margaret	*Indianapolis, Ind.*
Parker, Helen s e	*Madison*
Parmley, John Hahnemann	*Madison*
Pasley, Joyce Rita	*Madison*
Paull, Dorothy Eunice	*Wauwatosa*
Paull, Roscoe Alvin	*Ridgeway*
Pauly, William Jerome	*Milwaukee*
Payne, Jack Francis	*Milwaukee*
Pearce, Kathryn	*Dodgeville*
Pearse, Benjamin Hughes	*Milwaukee*

Pedersmoen, Helen Katherine	*Madison*
Perkins, Caroline Madge	*La Farge*
Perkins, Doris Elberta	*Lebanon, Ind.*
Perry, Edward Benjamin	*Amery*
Perry, Mary Amelia	*Kirkwood, Mo.*
Peters, Mary Adeline	*Birmingham, Ala.*
Petersen, Mary Louise	*Clinton, Iowa*
Peterson, Anna Marie	*Blair*
Peterson, David Fleming	*Weyauwega*
Peterson, Felix Emanuel	*Commonwealth*
Peterson, Frederick Russell	*Florence*
Peterson, May Marguerite	*Sterling, Ill.*
Philipson, Alice Ruth	*Chicago, Ill.*
Philipson, Sara Corson	*Chicago, Ill.*
Pinkerton, Lyall John	*Neenah*
Playter, Marion	*Joplin, Mo.*
Pondrom, John Andrew	*Houston, Tex.*
Ponsford, Dorothy Muriel	*Denver, Colo.*
Porter, Catharine Harriet	*Oak Park, Ill.*
Poser, Edward Falk	*Columbus*
Potratz, Beatrice Louise	*Prairie du Chien*
Powell, Adelle	*Sparta*
Powell, Della June	*Ridgeway*
Powell, James Willard	*Milwaukee*
Powers, Joseph Martin	*Fargo, N. Dak.*
Prehn, Douglas Theodore	*Wausau*
Prescott, Dorothy Isabell	*Madison*
Preston, Rolland Crowell	*Paw Paw, Ill.*
Preu, Fredrick	*Fairwater*
Prien, Elza Johanna	*Madison*
Pritchard, Frank Cary	*Madison*
Pudrith, Adele Louise	*Detroit, Mich.*
Ramirez, Fidel Trinidad	*San Quintin, P. I.*
Randall, Christian Johan	*Woodville*
Randolph, Mary Elizabeth	*Lafayette, Ind.*
Rasmussen, Florence Viola	*Madison*
Rathert, Burton Stewart	*Chilton*
Redeman, Mildred Ida	*Kiel*
Reed, Carol Elizabeth	*Blue River*
Reichert, Margaret Mary-Ellen	*West Bend*
Reilly, John Francis	*Fond du Lac*
Reitan, Thora Mathilda	*Bonduel*
Rhode, Bernice Julia	*Kenosha*
Rice, Henry L'Amoureux	*Watertown, S. Dak.*
Richardson, Doris s e	*Fargo, N. Dak.*
Richardson, Jane	*La Grange, Ill.*
Riddell, Elizabeth Frances	*Oak Park, Ill.*
Riesterer, Mildred Leonora	*Wheaton, Ill.*
Riley, Elizabeth	*Madison*
Roach, Carroll Ewart	*Waterloo*
Roach, Thelma Isabel	*Chicago, Ill.*
Robb, Florence Jeanne	*Eveleth, Minn.*
Roberts, Richard Ellis	*Sun Prairie*

Robinson, Gladys Mary	*Morris, Ill.*
Robinson, Theodore Day	*Endeavor*
Rock, Donald Andrew	*Superior*
Rodermund, Dorothy Anna	*Madison*
Rogers, John George	*Union, Iowa*
Rogers, Philip Meinhardt	*Milwaukee*
Rooney, Henry John	*La Crosse*
Rosenbaum, Ralph Kahn	*Milwaukee*
Roth, Eleanor Anna s e	*St. Louis, Mo.*
Rowland, John Scofield	*Racine*
Rowley, James Arthur	*Wausau*
Royce, Frances Lovina	*Madison*
Ruffner, Mary Warfield	*Denver, Colo.*
Russell, Kathryn Angelia	*Flandreau, S. Dak.*
Rutte, Louis Bernard	*Leopolis*
Ryan, Sadie Julia	*Prairie du Sac*
Rydell, Otto Ellwood	*Superior*
Safley, Louise	*Tipton, Iowa*
Salb, Irene	*Berwyn, Ill.*
Samson, Dorothy	*Pittsburgh, Pa.*
Sanford, James Richard	*Farmington, Minn.*
Sargent, Esther Bell	*Grand Rapids, Mich.*
Sater, Henry Arthur	*Rock Rapids, Iowa*
Sauerhering, Mabel Johanna	*Hartford*
Schaefer, Arthur Albert	*Milwaukee*
Schaffner, Esther Mary	*Mount Pleasant, Iowa*
Schee, John Huston	*Des Moines, Iowa*
Scheibel, Dorothy Fay	*Madison*
Scheier, Joseph Burr	*Milwaukee*
Scherr, August John	*Milwaukee*
Schindler, John Albert	*New Glarus*
Schlaack, Rhea Isabel	*Birmingham, Mich.*
Schlicher, Mary Hildegarde	*Rockford, Ill.*
Schlossman, Pauline Julia	*Muskegon, Mich.*
Schmedeman, Albert George, Jr.	*Madison*
Schmidt, Alfred Edward	*Columbus*
Schmidt, Marcella Veronica s e	*West Allis*
Schmidt, Samuel Frederick	*Madison*
Schmidt, Walter Michael	*Ottawa, Ill.*
Schmitz, Herbert Eugene Lenzen	*Chicago, Ill.*
Schneider, Leopold	*Madison*
Schoen, Norma Esther	*Milwaukee*
Schoenberg, Edith Hulda s e	*Muskegon, Mich.*
Schoenlaub, Hazel Pauline s e	*Madison*
Schoenlaub, Mildred Flag	*Madison*
Schulz, Hilda Marion	*Milwaukee*
Schwartz, Nathan Samuel	*Racine*
Scott, Alice Zoe s e	*Racine*
Scott, Bernice Marjorie	*Cambridge*
Scott, Frances Ruth	*Rapid River, Mich.*
Scott, Henry Thomas	*Poynette*
Seaman, Frances	*Milwaukee*
Seamans, Solemnus Jay, Jr.	*Aurora, Ill.*

Seering, Harold Albert	*Shawano*
Sell, Ethelyn Beatrice	*Reeseville*
Sellery, George Bapty	*Madison*
Shafer, Eloise s e	*Merrill*
Shanks, Mertis Isabel	*Merrimac*
Shapiro, Herman Harvey	*Madison*
Shapiro, Lazare Melvin	*Madison*
Shapiro, Leo Sidney	*Madison*
Shaw, Gerald William	*Waunakee*
Sheakley, Evelyn	*New Hampton, Iowa*
Sheltman, Emma Louise	*Louisville, Ky.*
Sherman, Martha Thatcher	*Vienna, Va.*
Sherman, Wells Alvord	*Vienna, Va.*
Showerman, Anita May	*Madison*
Sichler, Cecelia Agatha	*Alma Center*
Sickert, Norma Clara	*Milwaukee*
Siggelkow, Edwin Leslie	*McFarland*
Siljan, Harold Godfrey	*Madison*
Simley, Isaac Theodore	*Black Earth*
Simon, Harry	*New York, N. Y.*
Simpson, Dorothy s e	*Fort Wayne, Ind.*
Slaughter, Blanchard King	*El Monte, Cal.*
Slocum, Gertrude Elizabeth	*Chicago, Ill.*
Smart, Annie	*Madison*
Smiley, Bernice	*Janesville*
Smith, Alethea Elizabeth	*Madison*
Smith, Beatrice Elizabeth	*Weyauwega*
Smith, Dudley William	*Madison*
Smith, Ethel May s e	*Carbondale, Kans.*
Smith, Eulalia Margaret	*Madison*
Smith, Helen Burden	*Joliet, Ill.*
Smith, Helen Louise	*Edgerton*
Smith, Marshall Henry	*Oshkosh*
Smith, Morris	*Rush Lake*
Smith, Veva Alice	*Townsend, Mont.*
Smith, William Stuart	*Appleton*
Snow, Josephine Ferris	*Ottawa, Ill.*
Snydacker, James Underhill	*Kenilworth, Ill.*
Snyder, Grace Opal	*Rockford, Ill.*
Soderberg, Edna Madeline	*Barron*
Sommer, Arno William	*Sheboygan*
Soucie, Ethel Mary	*Lynxville*
Sovereign, William Waterman	*Willow Springs, Ill.*
Spittler, August Wesley	*Fountain City*
Springer, Byrle Oldham	*Sullivan, Ind.*
Sproul, Elizabeth Walden	*Madison*
Staab, Lulu Dorothea	*Wall Lake, Iowa*
Stafford, Harold Daniel	*Waupaca*
Stanchfield, Georgia Ophelia s e	*Fond du Lac*
Staudenmeyer, Ruth Cecily	*Arlington*
Stebbins, Lawrence Lane	*Clinton, Iowa*
Stege, Edna Babette	*Chicago, Ill.*
Steiger, Sophie Orth	*Madison*

Steinberg, Belle	*Newark, N. J.*
Stenjem, Inez Wihelmina	*Madison*
Stewart, Everette Anson	*Parma, Mo.*
Stewart, Frances Helen	*St. Louis, Mo.*
Stewart, James Jewell	*Madison*
Stiehm, Rubin Harold	*Johnson Creek*
Stitzer, Kenneth	*Boscobel*
Stoecker, Harold Charles	*Mukwonago*
Stuart, Janet	*Oklahoma City, Okla.*
von Suessmilch, Frederick Ludwig	*Delavan*
Sun, Tsing-faung Alfred	*Shanghai, China*
Sutor, Dorothy Eileen s e	*Burlington, Iowa*
Swain, Beryl Louise	*Coldwater, Mich.*
Sweet, Mildred DeVon	*Hutchinson, Kans.*
Swensen, Dorothy Katherine	*Madison*
Swensen, Verne A. H.	*Madison*
Sygman, Abraham	*Two Rivers*
Tappins, Noble Lyon	*Madison*
Tashof, Sophia Poppers	*Washington, D. C.*
Tauchen, Arthur s e	*Madison*
Taylor, Ardys La Vergne	*Chicago, Ill.*
Taylor, Janet Eda	*Chicago, Ill.*
Taylor, John Andrus	*Yonkers, N. Y.*
Tefft, Theora Teresa s e	*Belvidere, Ill.*
Tegge, Mildred Margaret	*Papineau, Ill.*
Tegtmeyer, Dorothy Henrietta	*Chicago, Ill.*
Tegtmeyer, Gamber Fred	*Milwaukee*
Teller, Julian Simeon	*Milwaukee*
Tesar, Ina Margaret	*Prairie du Chien*
Thoeny, Oscar Walter	*Fountain City*
Thomas, Mildred Louise	*Pierre, S. Dak.*
Thompson, Justin Reginald	*Madison*
Thompson, Robert Reese	*Oshkosh*
Thompson, Willard Harold	*Madison*
Tilton, Esther Grace s e	*Oshkosh*
Tobey, Edith Louise	*Wausau*
Tompkins, Ellen Emily	*Madison*
Torkelson, Dorothy Serena	*Bowman, N. Dak.*
Tough, Rosaland	*Madison*
Trainor, Stella Elizabeth	*Madison*
Traut, William Raymond	*Fond du Lac*
Trautman, Milton	*New Richmond*
Tsu, Yang-Ding Philip	*Shanghai, China*
Tuft, Warren Raiborn	*Milwaukee*
Turner, Mary Soulard	*St. Louis, Mo.*
Tyler, Jimmie Elmer	*Madison*
Tyrrell, Ethel Louise	*San Antonio, Tex.*
Uhl, Lucile Annah	*Galesville*
Urban, Faith Leola	*Wauwatosa*
Veling, Walter Vincent	*Baraboo*
Vosburg, Mary Jeanette s e	*Ft. Atkinson*
Waddle, Alchee Caroline	*South Wayne*
Wald, Arthur	*Republic, Mich.*

Walker, Beatrice Lampert	*Madison*
Walter, Allan Wylie	*Mendota, Ill.*
Walters, Freda Leone	*Dodgeville*
Walton, William Bradley	*Boscobel*
Waltz, Emelyn Merle	*Glencoe, Ill.*
Wandrey, Lester Lawrence	*Cumberland*
Ward, Mary Josephine	*Fairmount, Minn.*
Warren, Frances Hull	*Cedar Rapids, Iowa*
Warsinske, Harold Fredrick	*Marshfield*
Waterman, Irl Lloyd	*Suring*
Watson, James Torrence	*New Orleans, La.*
Webb, Alice Lorraine	*Bismark, N. Dak.*
Wegemann, Alvin August	*Watertown*
Wegner, Lydia	*Two Rivers*
Weiland, Mildred s e	*Baraboo*
Weinbaum, Stanley Grauman	*Milwaukee*
Weirick, Josephine Frances	*Los Angeles, Cal.*
Wendnagel, Mary Elizabeth	*Chicago, Ill.*
Wengler, Lilian Mary	*Madison*
Wernick, Bernard Carl	*Morrisonville*
West, Florence Elizabeth	*Monroe*
Westendarp, Marjorie Amelie s e	*Coldwater, Mich.*
Westerfield, Florence May	*Madison*
White, Carmen Adell s e	*Madison*
Wiedenbeck, Frances Theodora	*Madison*
Wilber, Martha Lee	*St. Louis, Mo.*
Wild, Sara Pauline s e	*Sycamore, Ill.*
Wilken, Rodney Frederick	*Whitehall*
Williams, Dorothy Elizabeth	*Madison*
Willoughby, Geoffrey	*Milwaukee*
Willson, Gordon Lee	*Leal. N. Dak.*
Wilson, E. Jeanette	*Burlington*
Winter, Bailey	*El Paso, Tex.*
Winter, Carrie Candee s e	*Madison*
Winter, Kathryn Elizabeth	*Madison*
Winterbotham, Isabelle	*Madison*
Winters, Faith	*Winnetka, Ill.*
Wise, Merrill Sheppard	*Jackson, Tenn.*
Wishart, Marie Ellen	*Grand Rapids, Mich.*
Witmer, Elizabeth	*Kansas City, Mo.*
Wonser, Mermel Doris s e	*Granton*
Wood, Willis	*Appleton*
Woodruff, Irma Lucille s e	*Clinton, Mo.*
Wright, Dorothy Page s e	*Webster Groves, Mo.*
Wright, Frances Adeline	*Sparta*
Wyckoff, Helen Mead	*Alton, Ill.*
Ziebarth, John Sidney	*Madison*
Zwicky, Edward	*Madison* —830

Course in Commerce

Abecassis, Henrique Isaac	*Lisbon, Portugal*
Abramson, Barney	*Chippewa Falls*
Ades, Carroll Bennett	*Pardeeville*

Adsit, Carl Clark	*Chicago, Ill.*
Alton, Everett Ernest	*Sayner*
Anundsen. B. B.	*Decorah, Iowa*
Ardiel, Arthur Hamilton	*Grand Rapids, Mich.*
Armstrong, Howard William	*Tomah*
Ashton, Harry Webster	*Rhinelander*
Aylward, Paul Jerome	*Madison*
Babcock, Wallace Carl	*Wausau*
Bacon, Hilary Edwin, Jr.	*Evansville, Ind.*
Bailey, Floyd Addison	*Baraboo*
Baker, Allen S.	*Evansville*
Baker, Maurice Jacobs	*East Lansing, Mich.*
Ball, Mary Manning	*Brooklyn, N. Y.*
Baltus, Charles John	*Laona*
Banner, Edward Anthony	*Chicago, Ill.*
Barlow, Lynn Bristow	*Darlington*
Barth, Chester Albert	*Cedar Rapids, Iowa*
Bayer, Horace MacDonald	*La Crosse*
Beach, George Harrison	*Whitehall*
Beeken, Fred Ralph	*Madison*
Beggs, Kenneth Gould	*St. Croix, Falls*
Beggs, Stanley Robert	*Hudson*
Bellack, Richard Franklin	*Columbus*
Benbow, Robert Leslie	*Watertown, S. Dak.*
Benson, Irving Milton	*Iola*
Berger, Ilse Margaret	*Lakewood, Ohio*
Berkley, Bessie Ruth	*Baraboo*
Billings, Burton Gideon	*Madison*
Bills, Harry Edward	*Milwaukee*
Bilstad, Esther Warne	*Cambridge*
Blackburn, Christine Beatrice	*Palmyra*
Blix, Laura Margaret	*Turtle Lake*
Boeckl, Julius Wilkins	*Lansing, Iowa*
Bond, Clayton M.	*Muscatine, Ia.*
Bond, Leon Haen	*Oconto*
Bongey, Alfred Rudolph	*Madison*
Bowen, Harold Williams	*Milwaukee*
Bowlby, David Roy	*Rock Island, Ill.*
Bowser, William Eben	*Bemidji, Minn.*
Brandt, Harold Gaylord	*Van Wert, Ohio*
Brigham, Marguerite Irene	*Madison*
Brill, J. Clare	*Appleton*
Bronson, Joe Evans	*Spencer, Iowa*
Brossard, Lester Louis	*Ashland*
Brown, Helen Margaret	*Madison*
Brown, Winsor Philip	*Prophetstown, Ill.*
Bruns, Henry Ernest, Jr.	*Madison*
Buckingham, Harold Finch	*Washburn, Ill.*
Buckly, William Edward	*Portage*
Buckmaster, Bruce MacNeill	*Kenosha*
Buhr, Guy Martin	*Marion*
Bunker, Addie Laurie	*Turtle Lake*
Burdon, Charles Ernest	*Rice Lake*

Burgeson, Edward Holm	*Madison*
Burke, Raymond Francis	*Hudson*
Burns, Harry Burnett, Jr.	*Pittsburgh, Pa.*
Burns, William Russ	*Chicago, Ill.*
Bushman, Leon Rolland	*Burlington*
Buzard, Nathan	*Washburn*
Campbell, Clarence Dickinson	*Oak Park, Ill.*
Cannon, Earl Nelson	*Delavan*
Casper, William Jacob	*Chippewa Falls*
Chandler, Ray Walter	*Madison*
Chase, Martin Alfred	*Chippewa Falls*
Christena, Francis Wesley	*Indianapolis, Ind.*
Clark, Philip Edmund	*Milwaukee*
Clough, Merwyn Spencer	*Oshkosh*
Coblentz, Frederick Louden	*Milwaukee*
Coerper, Milo Wilson	*Milwaukee*
Corl, Alice Elizabeth	*Grand Rapids, Mich.*
Cornwell, Earl Roosevelt	*Capron, Ill.*
Crowley, Elenore Phyllis	*Madison*
Crummey, Mabel Lucille	*Madison*
Cumming, Hinton	*Milwaukee*
Cunningham, Leonard L.	*Beaver Dam*
Curley, Robert Edward	*Chicago, Ill.*
Curren, Ralph Benjamin	*Eau Claire*
Cutler, Rupert W.	*Rockford, Ill.*
Cutts, Jerrold Joseph	*Wautoma*
Damon, Robert Hosken	*Spokane, Wash.*
Daniels, Harold Edwin	*Oak Park, Ill.*
Demoling, Bernard Michael	*Milwaukee*
Dennis, Jean Bunting	*Sioux Falls, S. D.*
DeVries, Benjamin Fred	*St. Paul, Minn.*
Dillman, John A.	*Milwaukee*
Dixon, Bradford Church	*La Crosse*
Dodd, Gladys Arline	*Algonquin, Ill.*
Dolliver, Ardin Joseph	*Berlin*
Dooley, Harvey Henry	*Florence*
Dorsey, Floyd Joseph	*Kenosha*
Doyle, Charles Ralph	*Gratiot*
Draize, August Joseph	*Brussels*
Drotleff, Erwin John	*Youngstown, Ohio*
Druliner, Morris Revell	*Madison*
DuBois, Durwood Carl	*Baraboo*
Dugan, Leo Francis	*Janesville*
Du Val, Alexander Gilmore	*Milwaukee*
Ebert, Melvin Dinkel	*Charles City, Iowa*
Eddy, Wilber Joseph	*Canon City, Colo.*
Edison, Ora Belle	*Sun Prairie*
Efinger, Irvin Robert	*Muscoda*
Egan, Floyd Henry	*Sioux Falls, S. Dak.*
Ehrlich, Jacob Isaac	*La Crosse*
Emery, John Calvin	*Kansas City, Mo.*
Engler, Carl John Williams	*Fountain City*
Enright, Paul Robert	*Mauston*

Epstein, Sol	*Madison*
Erf, Clifford Henry	*Monroeville, Ohio*
Erickson, Robert Earl	*Marinette*
Evans, Elwyn	*Dodgeville*
Ewing, Andrew Goodyear	*New Haven, Conn.*
Ewing, George Henry	*Richland Center*
Fahnestock, Jackson Hill	*Peoria, Ill.*
Farrier, Henry Marshall	*Omaha, Tex.*
Febock, Ferne Margaret J.	*Madison*
Fisher, Royal Desmond	*Waupaca*
Floto, Mari Henriette	*Chicago, Ill.*
Flugstad, Wilson Dale	*Black River Falls*
Fontaine, Berwyn	*Green Bay*
Foster, Gerald Lynn	*Sparta*
Fox, Charles Anton	*Hot Springs, Ark.*
Franklin, Henry M.	*Chicago, Ill.*
Freese, George Ernest	*Sioux Falls, S. Dak.*
Fronk, William James	*Mishicot*
Frye, Orville Myron	*Emmetsburg, Iowa*
Fuller, Reuel Burdeen	*Mondovi*
Garvoille, Gordon Louis	*Belleville*
Gauntlett, Ward Jackson	*Chicago, Ill.*
Gebhardt, William Russell	*Milwaukee*
Gesme, Isaac James	*Mt. Horeb*
Gibson, Richard Ford	*Wisconsin Rapids*
Gilbreath, John Schaaf	*Detroit, Mich.*
Giles, Charles Edwin	*La Grange, Ill.*
Giles, George Cranston	*La Grange, Ill.*
Gill, Chester Leo	*Madison*
Gilland, George Hobart Jr.	*Cheyenne, Wyo.*
Gillespie, Leland Warwick	*Green Bay*
Gilson, Elmer Franklin	*Gillett*
Gleason, Clifford John	*Arcadia*
Goan, Floyd Harry	*Mt. Hope*
Goedeke, Phyllis March	*Washburn*
Goeltz, Earl Louis	*Ashland*
Goetz, Loraine Ernestine	*Milwaukee*
Goodman, Louis Abraham	*Marinette*
Grabin, Nathan	*Milwaukee*
Greene, Myrtle Jeane	*Oconomowoc*
Greenwood, Horace Elmer	*Emerson, Iowa*
Griffen, Charles Jewett	*Chippewa Falls*
Grimes, Earl Russell	*Lancaster*
Gunderson, Earl Lionel	*Chippewa Falls*
Habighorst, Edgar William	*Marinette*
Hall, Wellington John	*Platteville*
Halsor, Martin Elmer	*De Forest*
Hanson, Curtis Raymond	*Scandinavia*
Hanson, Lee Delbert	*Delavan*
Hanson, Mendez Nathanial	*Whitehall*
Hardy, Lloyd Earl	*Ashland*
Harris, Arthur Stanley	*Madison*
Harrison, Stafford Bate	*Milwaukee*

Hartman, Joseph Schaller	*Lake View, Iowa*
Hartmeyer, Margaret Mary	*Madison*
Haugen, Elva Bessie	*Neillsville*
Hayden, Charles L.	*Milwaukee*
Hazen, Oakley William	*Mt. Hope*
Heil, Joseph Frank	*Milwaukee*
Heintz, William Douglas	*Rice Lake*
Hemenway, Robert Clark	*Carlsbad, N. Mex.*
Hendry, Allan Penfield	*Madison*
Henika, Franklin Sinclair	*Madison*
Hertel, Andrew Henry	*Watertown*
Hickok, Ward Romayne	*Madison*
Higgins, Edward Addison	*Milwaukee*
Higgins, Joseph J.	*Aurora, Ill.*
Hilsenoff, Raymond LeRoy	*Madison*
Hitt, Richard Wainwright	*Sawyer*
Hoffman, Irene Frances	*Ft. Atkinson*
Hoidal, Graydon Theodore	*Madison, S. Dak.*
Holbrook, Elizabeth	*Oak Park, Ill.*
Hollensteiner, Elmer Simon	*Milwaukee*
Holmes, Harold Harvey	*Pocatelli, Idaho*
Holmes, Herbert Leonard	*Madison*
Holton, Herbert Joachim	*Whitehall*
Hood, George Kenneth	*Spring Green*
Houghton, Allan Wilbourne	*Madison*
Houghton, Leonard William	*Madison*
Hoyt, Norman Frederick	*Plymouth*
Hubbell, Edwin Miles	*Edgerton*
Hughes, Earl William	*Darlington*
Hunsader, Allan Joseph	*Algoma*
Hunt, Victor Clifford	*Chicago, Ill.*
Hurlbut, Parker Duane	*Monroe*
Hurwitz, Isadore	*Milwaukee*
Isenberg, Oscar Fred	*Baraboo*
Iwen, Wilbert Paul	*Shawano*
Jackson, Benjamin Frank	*Milwaukee*
Jackson, Merle Emerson	*Madison*
Jacobson, Edgar	*Ames, Iowa*
Jaeger, Ivan Pfister	*Flandreau, S. Dak.*
Jandrey, Edward Erdman	*Neenah*
Jax, Clarence Gerald	*Johnson Creek*
Jensch, Charles Campbell	*Hudson*
Johnson, Carl Valdemar	*Racine*
Johnson, Donald Kendall	*Milwaukee*
Johnson, Frederick Wall	*Rockford, Ill.*
Johnson, Ira Milford	*Wautoma*
Johnson, Knute Leonard	*Flandreau, S. D.*
Johnson, Verdie Arthur	*Waupun*
Johnston, David Martell	*Madison*
Johonnott, Robert John	*Beaver Dam*
Jome, Martha Fjelde	*Sawyer*
Jones, Orville Leslie	*Wallace, Idaho*
Jordalen, Ina Lenora	*Stoughton*

Kearns, Leo Harold	*Madison*
Keefe, Maurice Franklin	*Black River Falls*
Keeley, Paul Maurice	*Beloit*
Keith, George Mason	*Dalton*
Kelley, Basil	*Early, Iowa*
Kelley, Cecil Joseph	*Early, Iowa*
Keppler, Frank William	*Watertown*
Kessler, Wesley Dumont	*Stoughton*
Kimball, Lyman Burdick	*Janesville*
King, Paul Carroll	*Chilton*
Kirchner, Willard Florin	*Fountain City*
Kissel, Milton John	*Hartford*
Kitchen, Ross Greenfield	*Madison*
Klassy, Eugene Robert	*Monroe*
Klemperer, Leo Arnold	*Chicago, Ill.*
Klencker, Wallace Harry	*St. Louis, Mo.*
Klieforth, Ralph George	*Fond du Lac*
Klockow, Merrill Henry	*Jefferson*
Klueter, Emily Mary	*Madison*
Knowles, Fred Hersey	*Chicago, Ill.*
Knudsen, Harold Rasmus	*Kenosha*
Kober, Kenneth	*Janesville*
Koeffler, Carl Comstock	*Wauwatosa*
Kohl, John Bertram	*Juneau*
Kohl, William Henry	*Sheboygan*
Kohn, Kathryn Carolyn	*Lake Geneva*
Korfmacher, Raymond Frederick	*Cottage Grove*
Koskinan, Earl Clinton	*Fond du Lac*
Kraatz, Ann Nanette	*Merrill*
Kraemer, Eugene Henry	*Milwaukee*
Krause, Elmer George	*Milwaukee*
Krebs, Oswald Armand	*Waupun*
Kreisel, John Leland	*Huntington, Ind.*
Krom, Isadore	*Withee*
Lain, Robert Elmo	*Bloomington, Ill.*
Lanz, Herbert Edward	*Monroe*
La Pook, Sidney Welton	*Lake Geneva*
La Porte, Manuel Sauber	*Green Bay*
Lauson, Fred John	*New Holstein*
Laycock, Randall William	*Racine*
Leary, Edward Thomas	*Edgerton*
Leas, Ralph Burnell	*Elkhardt, Ind.*
Lehnkering, Carl Franklin	*Darlington*
Lemcke, Florence Ruth	*Middleton*
Lenzer, Shirley Mae	*Madison*
Leonard, Sidney Howard	*Kenosha*
Lewis, Bennet Robert	*Rhinelander*
Liner, Charles Henry	*Brandon*
Littel, Edward George	*Madison*
Littig, John Doyle	*Flandreau, S. Dak.*
Lovell, Glenn Ayres	*Muscoda*
Lowe, Edna Mae	*Algonquin, Ill.*
Lowe, Richard Barrett	*Madison, S. Dak.*

Lucia, Merlin James	*Sugar Bush*
Luecker, Ralph Frederick	*Brillion*
Luther, Margaret Helen	*Poynette*
Lyman, Howard Bertram	*Madison*
Lynde, Robert Gordon	*Antigo*
Lyon, Evelyn R.	*Logansport, Ind.*
McCarty, Harold James	*Brownsville*
McCormick, Con.	*Conrad, Mont.*
McCoy, Stuart Bowker	*Sparta*
McDougall, Viola Isabelle	*Chicago, Ill.*
McElroy, Donald Eugene	*Racine*
McGlasson, Albert Jackson	*Milwaukee*
McIver, Florence Anne	*Kimberly*
McKinney, Leighton Dennison	*Burlington, Iowa*
McKittrick, Seth Redford	*Madison*
McKivett, Charles Christianson	*Racine*
McPherson, James Birdseye	*Muskegon, Mich.*
McPhillips, Alice Elizabeth	*Darlington*
Magaro, Nick Albert	*Kenosha*
Magnuson, Gordon Edward	*Elkhart, Ind.*
Maher, Josephine Veronica	*Madison*
Mahoney, John Ellsworth	*Madison*
Major, Harry Arthur	*Scottville, Mich.*
Mann, Della Garrett	*Chicago, Ill.*
Marquette, Carl William	*Baraboo*
Marshall, Marion Madeline	*Rockford, Ill.*
Martin, Samuel Russell	*Mt. Horeb*
Martinez, Pio Buenaventura	*San Isidro, Nueva Ecija, P. I.*
Mathews, Curtis Warner	*Black River Falls*
Matter, Arlene Kathryn	*Freeport, Ill.*
Maxey, John Danforth	*Washburn*
May, Ralph Louis	*Mineral Point*
Meng, Eugene Charles	*Madison*
Merow, Ernie Leo	*Sparta*
Messelt, Marie Theressa	*Black River Falls*
Metcalf, James Loyd	*Benton*
Meyer, Leah-Jane	*Barron*
Milbrandt, Earl Richard	*Racine*
Mohme, Fred Stephen	*Elkhart Lake*
Morehouse, Cecil Thomas	*Cuba City*
Morgan, Mary Margaret	*Spring Green*
Morris, Edward David	*Cambria*
Morris, Llewelyn H.	*Cambria*
Morritt, William Dale	*Darlington*
Moss, Curtis Frank	*Kenosha*
Mottram, John Joseph	*Kewaunee, Ill.*
Moulding, Arthur Tilt	*Delavan*
Murwin, Chester W.	*Edgerton*
Muth, Clarence Jacob	*Milwaukee*
Naber, Alfred Ferdinand	*Mayville*
Nash, Casper Marshall	*Madison*
Neese, Ehrmel Wayne	*Cicero, Ind.*
Neilson, Stanley Walter	*North Milwaukee*

Nelson, Lawrence Raymond	*Grand Rapids, Mich.*
Nichols, Grace Laura	*Madison*
Niehaus, Charles Meredith	*Fennimore*
Noffz, William Edward	*Oconto*
Nolte, Ruth Rosamond	*Wauwatosa*
Norton, Marion Elizabeth	*Escanaba, Mich.*
Oakford, Calvin Curtis	*Peoria, Ill.*
O'Dwyer, Lucille Cecelia	*Dane*
Ogden, William Cutler	*Edgerton*
O'Hara, Arthur James	*Gary, Ind.*
Oldenburg, Edith Maie	*Madison*
O'Malley, Letitia Magdalen	*Madison*
O'Malley, Victor	*Waunakee*
O'Neill, Edward James	*Darlington*
O'Rourke, William Gavin	*Oshkosh*
Orton, Paulona	*Butte, Mont.*
Oscar, Elliot Max	*Washburn*
Owens, Glenn	*Dodgeville*
Paciotti, Roland Arthur	*Eveleth, Minn.*
Packard, John Sanderson	*Rhinelander*
Paddock, Lauren Brace	*Chicago, Ill.*
Paige, Delbert Romig	*Wigwam, Colo.*
Parr, Elmer	*Viroqua*
Paulson, G. Owen	*Washburn*
Payne, Joseph Cannon	*Danville, Ill.*
Pennefeather, Ambrose James	*Kenosha*
Pennington, Grace Audrey	*Madison*
Periolat, Dorothy Marie	*Chicago, Ill.*
Perstein, Maurice	*Madison*
Peterson, Alfred Walter	*Waupaca*
Peterson, Arthur Superior	*Crandon*
Peterson, Robert Lawrence	*Waupaca*
Peterson, Walter Theodore	*Huron, S. Dak.*
Pfeifer, Russell George	*Madison*
Pfund, Albert Leon	*Monroe*
Plunkett, Raymond James	*Rhinelander*
Poppe, Cornelius	*Sheboygan*
Pritzlaff, Richard George	*Milwaukee*
Purcell, John Robert	*Madison*
Ragatz, Wilmer LeRoy	*Madison*
Reeke, Irving Alfred	*Green Bay*
Reese, William Joshua	*Spring Green*
Reichenbaum, Eugene	*Milwaukee*
Reyer, Otis Henry	*Colby*
Rhodes, Cecil Merriman	*Estherville, Iowa*
Rice, Elizabeth Bernadine	*Escanaba, Mich.*
Rice, Henry Sawyer	*Elgin, Ill.*
Richards, Carlyle Frisbee	*Sheldon, Iowa*
Richey, Donald Herbert	*Glenwillard, Pa.*
Riley, Charles William	*Madison*
Riley, John Morris	*Madison*
Roberts, Loren Thomas	*Cambria*
Roberts, Weir L.	*Angola, Ind.*

Robertson, Paul Kedzie	*Evanston, Ill.*
Rock, Arthur Robert	*Clintonville*
Roddewig, Dick	*Davenport, Iowa*
Roder, Eugene Arthur	*Madison*
Rogers, William Winchester	*Decatur, Ill.*
Roman, Perry Bryon	*Viroqua*
Rood, James Leslie	*Sun Prairie*
Root, Fred George	*Ventura, Iowa*
Ross, Cornelius Austin	*Doon, Iowa*
Rossebo, Christian Bjarne	*Edgerton*
Rule, Homer Sheldon	*Linden*
Saari, Arthur Richard	*Eveleth, Minn.*
Sahagal, Bansi Lal	*Hyderahad, India*
Salentine, Frederic George H.	*Milwaukee*
Sanborn, Henry Hobbins	*Madison*
Sander, Oscar A.	*Madison*
Schadde, Esther Henriette	*Baraboo*
Schaub, Elizabeth Dorothy	*Madison*
Scheu, Albert James	*St. Louis, Mo.*
Schlicht, William Michael	*Sheboygan*
Schmidt, Myrtle Lucille	*Prairie du Sac*
Schmidt, Victor O.	*Plymouth*
Schmiege, Oscar John	*Appleton*
Schmitt, Eugene Henry	*Milwaukee*
Scholl, Lloyd Harry	*Kaukauna*
Schuetz, Ralph Julius	*Middleton*
Schwab, Carl Louis	*St. Cloud, Minn.*
Searcy, John Hazelrigg	*St. Louis, Mo.*
Searing, William Edward	*Mankato, Minn.*
Seefeldt, Walter George	*Winslow, Ill.*
Seelman, Ralph George	*Milwaukee*
Sheridan, Ralph Lloyd	*Fond du Lac*
Shuman, Gilman Leslie	*Madison*
Sichling, John Henry	*Milwaukee*
Siegler, Walter Ferdinand	*Watertown*
Simpson, William Ethelbert	*Wellsburg, W. Va.*
Slezak, Mildred	*Racine*
Smith, Edgar Jacob	*Fort Atkinson*
Smith, Halsey Weir	*Marshalltown, Iowa*
Smith, Ralph McKinley	*Peshtigo*
Sonday, Frederick John	*Sparta*
Spees, Robert Ransom	*Plainfield*
Spies, Jacob Alfred, Jr.	*Gillett*
Spring, Lynn Sherwood	*Milwaukee*
Starker, Henry Weinrich	*Burlington, Iowa*
Stauffacher, Glenn Fred	*Monroe*
Stegeman, Albert Vinton	*Ft. Thomas, Ky.*
Stehr, Raymond Albert	*Madison*
Steiger, Emil Lee	*Madison*
Stephenson, Clarence J.	*Madison*
Stevenson, Winifred Frances	*Sheridan, Wyo.*
Stolp, Robert Charles	*Aurora, Ill.*
Stolte, John F.	*Waterloo, Iowa*

Stoltz, Gerold Hugo	*Milwaukee*
Stone, Marshall Lewis	*Milwaukee*
Strain, Marion Eleven	*Lamar, Colo.*
Strathman, Stuart Henry	*Lake Park, Iowa*
Stubley, Mona Christine	*Black Earth*
Sturtevant, John Chesley	*Wausau*
Swensen, Thomas Loren	*Eau Claire*
Switalski, Thaddeus Valentine	*Owen*
Taggart, Horace Rollins	*Madison*
Taylor, Margaret Marie	*Madison*
Taylor, Raymond Cortez	*Barron*
Taylor, Stanton Eugene	*La Crosse*
Tegen, Albert Fredrick	*Manitowoc*
Thomas, Lewis Joseph	*Bloomington, Ill.*
Thompson, Albert Wheeler	*Madison*
Thompson, Florence Esther	*Sioux Falls, S. Dak.*
Thompson, Julien Hugo	*Coon Valley*
Thompson, Robert James	*Toledo, Ohio*
Thorsen, Adolph Gehard	*Milwaukee*
Thorson, Sidney Reuben	*Madison*
Tkadlec, Joseph Herman	*Cazenovia*
Torgerson, Lucille Elizabeth	*Stoughton*
Trayser, Donald Grant	*New London*
Turner, George Greene	*Waupun*
Tyler, George Alexander	*Mellen*
Tyler, James Dorwin	*Redfield, S. Dak.*
Vance, George Sheldon	*Chicago, Ill.*
Verthien, Jerome Orville	*Middleton*
Vonnegut, Carl Richard	*Indianapolis, Ind.*
Vornholt, Theodore Christian	*Madison*
Wall, Thomas Robert	*Oshkosh*
Walsh, Edith Margaret	*Merrill*
Wanzer, Gordon Bradley	*Chicago, Ill.*
Watne, Theodore Alfred	*Rollo, Ill.*
Watson, Arthur Norton	*Normal, Ill.*
Weber, George Edwin	*Youngstown, Ohio*
Wechselberg, Edith Ruth	*Milwaukee*
Wegner, Lester Fred	*Pierre, S. Dak.*
Weidenfeller, Fred William	*Highland*
Weinhagen, Edward	*St. Paul, Minn.*
Weinman, Philip Alois	*Neenah*
Weis, Myron Albert	*Wahpeton, N. Dak.*
Wheeler, Helen Anna	*Columbus*
Wheeler, Horace Phillips	*Beloit*
Whitehead, Francis Crosby	*La Grange, Ill.*
Whitfield, Murray James	*Peru, Ill.*
Whitman, Marcus	*Baraboo*
Wiggin, Arthur Louis	*Plymouth*
Wiley, Archie Ray	*Hancock*
Williams, Clarence Michael	*Madison*
Williams, Price Rundall	*Dodgeville*
Wilson, Roy	*Roachdale, Ind.*
Wisch, Carl Fred	*Fort Atkinson*

Wise, Ralph Henry	*Fall Creek*
Wittenberg, Wilber William	*Milwaukee*
Wolfe, Lillian Edith	*Madison*
Wood, Elvin Lyle	*Morris, Ill.*
Wright, Kenneth Muir	*Chicago, Ill.*
Wright, Proctor Thomas	*Webster Groves, Mo.*
Yahn, Earl Edwin	*Janesville*
Zarne, Leon Weiss	*Milwaukee*
Ziemann, Amandus Elmer	*Fall Creek*
Zube, Arnold Gerhart	*Shell Lake*

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Course in Chemistry

Bienstadt, Ben	*Milwaukee*
Cheuvrant, Frederick Byssbe	*Wellsburg, W. Va.*
Christensen, William Charles	*Eau Claire*
Dingman, Virginia Heathers	*Chicago, Ill.*
Dunbar, Leo Patrick	*Cedar Falls, Iowa*
Duthey, Mabel Victoria	*Superior*
Fleischer, Hazel Anna	*Milwaukee*
Fong, Samuel Archibald	*Hongkong, China*
Hoesly, John Jacob	*Neillsville*
Hoffman, Gilbert Frederick	*Milwaukee*
Hughes, Ruth Helen	*Miles City, Mont.*
Jones, Dorothy	*Madison*
Johnson, William Henry	*Watertown, S. Dak.*
Lull, Marian Zelda	*Evanston, Ill.*
Manns, Edward Albert	*Oconomowoc*
Mintz, Charles Stower	*Colorado Springs, Colo.*
Ross, Helen Virginia	*Mineral Point*
Rust, Clarence Arthur	*Edgerton, Minn.*
Salm, Marie	*Neenah*
Straka, Jerome Anthony	*Milwaukee*
Van Steenberg, Victor	*Milwaukee*
Wille, Aaron Frank	*Oshkosh*

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Course in Journalism

Bailey, Chester Wayne	*Grand Rapids, Mich.*
Barker, Marian	*Washington, D. C.*
Batcheller, Mabel Elizabeth	*Madison*
Bell, Donald L.	*Milwaukee*
Boerner, Edward Arthur	*Port Washington*
Bohrer, Gertrude Ann	*Bloomington, Ill.*
Boyer, Rella Jeanette	*Duluth, Minn.*
Breen, George Thomas	*Crystal Falls, Mich.*
Briggs, Elizabeth Mary	*Madison*
Brown, Harold Benton	*Harlan, Iowa*
Burgess, Nella Mae	*St. Louis, Mo.*
Butcher, Vernon Arthur	*Naperville, Ill.*
Butler, Kenneth Blaine	*Kalamazoo, Mich.*
Callsen, Margaret Anne	*Chicago, Ill.*
Capron, Marjorie Ethel	*Madison*
Cassell, Frances Elizabeth	*Hot Springs, Ark.*

Cheney, Clayton	*Milwaukee*
Christofferson, James Edward	*Los Angeles, Cal.*
Cole, Lois Alberta	*Norwalk, Ohio*
Conlee, Courtland Reed	*Madison*
Davis, Anna Irene	*Oskaloosa, Iowa*
Dean, Dorothy Marion	*Glenwood City*
Dewey, Doris Alberta	*Sturgis, Mich.*
Elbel, Bertha Margaret	*South Bend, Ind.*
Gardner, Andrew Arthur	*Long Beach, Cal.*
Gollmar, Robert Howard	*Baraboo*
Gottlieb, Louise Elizabeth	*Hutchinson, Kans.*
Hanks, Amos Alson	*North Milwaukee*
Hanson, Helen Kilbourne	*Cambridge*
Heimick, Florence Dunham	*Milwaukee*
Hemingway, Jean Dorothy	*Chicago, Ill.*
Henthorne, Clare Ferdinand	*Whiting, Ind.*
Hicks, Gladys E.	*Madison*
Jaeger, Harriett Marie	*Madison*
Jensen, Jesse	*Downsville*
Kellogg, Ruth Adelaide	*Milwaukee*
Killilea, Florence Louise	*Milwaukee*
Kryshak, Rose Inez	*Milwaukee*
Lawton, Dorothy Mildred	*Racine*
Learmonth, George Arnott	*Sparta*
Levenson, Inez	*Chicago, Ill.*
Limburg, Wayne	*Plymouth*
Lingenfelder, Doris Amy	*Norfolk, Nebr.*
McDonald, Malcolm Alpheus	*New Richmond*
MacDowell, Frances Elynora	*Chicago, Ill.*
McIntosh, Mavis	*Milwaukee*
McKellar, Arline Marieta	*Blanchardville*
MacRavey, Frank William Jr.	*Madison*
Maier, Harold Ryan	*Antigo*
Mallory, Louis Arthur	*Milwaukee*
Metz, Dorothy Sohm	*Memphis, Tenn.*
Meyer, Harold Will	*Reedsburg*
Miller, Lois Lynn	*Morgantown, W. Va.*
Mohr, Cheryl Isabella	*Chicago, Ill.*
Müller, Allan Chandler	*Chicago, Ill.*
Parsons, Thomas Madison	*Johnson City, Tenn.*
Porter, Edith Augusta	*Washington, D. C.*
Ramsdell, Irving Meyer	*Madison*
Reichert, Dorothy Rose	*West Bend*
Reinike, Leila Verona	*N. Fond du Lac*
Robertson, Katie Levina	*Battle Creek, Mich.*
Rud, Natalie Margaret	*Chicago, Ill.*
Sather, Melvin Elroy	*Park Falls*
Schott, Elizabeth Helen	*Detroit, Mich.*
SeCheverell, Marian	*Madison*
Sinaiko, Edith Elaine	*Madison*
Smazel, Clarence Vincent	*Chief, Mich.*
Smith, Gordon Edward	*Madison*
Smith, Robert Michael	*Chicago, Ill.*

Stamm, Margaret Victoria	*Chicago, Ill.*
Stevens, Katharine Roy s e	*Yankton, S. Dak.*
Stiles, Marion Isabel	*Chicago, Ill.*
Strachan, Clyde Graham	*Tomah*
Swartzlender, Elizabeth	*Tipton, Iowa*
Talbott, Basil	*Grinnell, Iowa*
Thauer, Marion Henrietta	*Watertown*
Timmerick, George Vincent	*Charles City, Iowa*
Walton, Mary Archbold	*Meadville, Pa.*
White, Edward Smith	*Walton, N. Y.*
Wiesler, Dorothy Louise	*Milwaukee*
Wille, Wilfred Chester	*Milwaukee*
Wiseman, Charles Herbert	*Des Moines, Iowa*
Worthington, Jane Kathryn	*Madison*
Wright, Carl Burton	*Mason City, Iowa*

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General Course

Bunde, Herbert Albert	*Wisconsin Rapids*
Butts, Porter Freeman	*Springfield, Ill.*
Butts, Robert Paddock	*Springfield, Ill.*
Hartzell, Lester Sterl	*Edgerton*
Williams, Eugene Griswold	*Oshkosh*

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Adult Special Students

Alexander, John Jr.	*Aurora, Ill.*	Sophomore
Alten, Geralda Charlotte	*Loraine, Ohio*	Freshman
Barr, Theodore La Force	*Madison*	Freshman
Berg, George Oscar	*Madison*	Freshman
Bredeweg, Alma E.	*Quincy, Ill.*	Freshman
Brewinton, Russell Dumas	*Madison*	Sophomore
Clark, Louis West	*Milwaukee*	Sophomore
Coutur, Walter Henry Joseph	*Brainerd, Minn.*	Freshman
Craighill, Mary Wortley	*Madison*	Freshman
Davidson, Julia Jean	*Racine*	Freshman
Digney, Catherine Mary	*Madison*	Freshman
Edwards, George	*Prairie du Sac*	Freshman
Ewertz, Henry	*Milwaukee*	Freshman
Fleet, Daniel Herbert	*Poynette*	Freshman
Foote, Nelle Margaret	*Hartford*	Sophomore
Freidel, Helen Agatha	*Waterloo*	Freshman
Gerholz, Robert Paul	*Merrill*	Sophomore
Gifford, Willis Erwin	*Madison*	Freshman
Guillemin, Victor, Jr.	*North Milwaukee*	Sophomore
Haake, Alma Agnes	*Madison*	Freshman
Hauptman, Evelyn	*Newark, N. J.*	Freshman
Iltis, Leon Leonard	*Duluth, Minn.*	Freshman
Kailin, Dorothy	*Madison*	Freshman
Klein, Edna B.	*Newark, N. J.*	Freshman
Knudsen, Clarence	*Kenosha*	Freshman
Knutzen, Lorenz	*Palmyra*	Freshman
Kurz, Eva Elizabeth	*Milwaukee*	Sophomore
Leiser, Clara Margaret	*Milwaukee*	Freshman
Lichnovsky, Bertha Marie	*Omaha, Nebr.*	Freshman

Lipschitz, Bertha	*Brooklyn, N. Y.*	Freshman
Moore, Mary Eliza	*Madison*	Senior
Olmsted, Robert Henry	*Omaha, Nebr.*	Freshman
Purtell, Edward Anthony	*Milwaukee*	Freshman
Rasmussen, Carrie	*Aurora, Ill.*	Freshman
Rhodes, Helen Martyn	*Chicago, Ill.*	Freshman
Richards, Ruth E.	*Perley, Minn.*	Freshman
Robinson, Arthur Cyrus	*Superior*	Freshman
Rodner, Alfred P.	*Madison*	Sophomore
Sannes, Christian Rawn	*Madison*	Freshman
Sannes, Ingeborg Marie s e	*Madison*	Junior
Schlagenhauf, Ira E.	*Waterloo*	Freshman
Shaber, Fannie	*Nashua, N. H.*	Freshman
Smith, Harriet Mary	*Kansas City, Mo.*	Freshman
Stewart, Robert Bruce	*Madison*	Sophomore
Tigay, Clara Deborah	*Madison*	Junior
Trautmann, Susan Sloan	*Madison*	Freshman
Twohy, Madeline Elisabeth	*Superior*	Freshman
Vaughan, George Warren	*Linden*	Freshman
Vivian, Reuben Leroy	*Madison*	Freshman
Waide, Allie Fairchild	*Arlington Heights, Ill.*	Freshman
Wakeman, Hattie Josephine	*Madison*	Junior
White, Adeline	*Madison*	Sophomore
Woo, Tsi Tao	*Shanghai, China*	Sophomore
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Course in Commerce

Anderson, Arthur Lloyd	*Eau Claire*	Sophomore
Bissell, Schuyler Pinney	*Adrain, Mich.*	Sophomore
Bossard, George Grant	*Madison*	Junior
Branks, Lloyd Henry	*Janesville*	Freshman
Brown, Charles Oscar	*Eau Claire*	Freshman
Edwards, James Blaine	*Hazel Green*	Freshman
Feiges, Julius	*Racine*	Freshman
Fingel, Harry	*Oconto*	Freshman
Fitzsimmons, Charles Harley	*Duluth, Minn.*	Sophomore
Harting, Ralph Waldo	*Elwood, Ind.*	Sophomore
Hawley, Clifford Stanley	*Oshkosh*	Freshman
Higbie, Willis Terwilliger	*Chicago, Ill.*	Freshman
Houkom, Omer	*Blair*	Sophomore
Kalbus, Alvin Walter	*Oshkosh*	Freshman
Linsangan, Pedro T.	*Pantobangan, Nueva Ecija, P. I.*	Freshman
McDonald, Lawrence	*Whitewater*	Sophomore
Martinsen, Arnold Bohn	*Minneapolis, Minn.*	Sophomore
O'Brien, John Nelson	*Darien*	Sophomore
O'Day, Thomas Keneilly	*St. Louis, Mo.*	Freshman
Owens, Mildred Dorothy	*Utica, N. Y.*	Freshman
Pieh, William John	*Madison*	Sophomore
Pierce, Charles Arthur	*Madison*	Freshman
Rubert, William Frederick	*Madison*	Senior
Steiger, Carl Emil	*Madison*	Freshman
Watson, Thomas John	*Madison*	Sophomore
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Course in Chemistry

Mintz, Charles Stown	*Madison*	Freshman

Course in Journalism

Brockhausen, Herbert Henry	*Milwaukee*	Junior
Fehrenbach, August John	*Marshfield*	Junior
Halling, Martin Andrew	*Milwaukee*	Junior
McNair, Ralph	*Brodhead*	Freshman
Tiegs, Edith Howard	*Madison*	Sophomore

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Four Year Course in Pharmacy

Anderson, Ruby Ethel	*Milwaukee*	Sophomore
Clark, Ralph William	*Madison*	Junior
Delfosse, Joseph Thompson, Jr.	*Chicago, Ill.*	Freshman
Hatfield, Margaret Ellen	*Madison*	Freshman
Heidbreder, Ralph Harold	*Quincy, Ill.*	Junior
Irish, Frederick Walker	*Washington, D. C.*	Senior
Keyser, Glyndon Francis	*Oshkosh*	Junior
Krakow, Karl August	*Deerfield*	Freshman
Krause, Arthur John	*Oshkosh*	Junior
Kuenzi, Ernest Gottfried	*Colgate*	Junior
Lalor, Violet Bernadine	*Dunn*	Freshman
Maass, Arnold Herman	*Templeton*	Freshman
Maureaux, Louise Katherine	*San Antonio, Tex.*	Junior
Michels, Hugh Conrad	*Chilson*	Sophomore
Pokorny, Earl Joseph	*Racine*	Junior
Rath, Floyd Cecil	*Madison*	Senior
Rein, Lewis Stewart	*Hurley*	Sophomore
Schwarz, Alexander John	*Chilton*	Junior
Tilford, Edgar Lockhart	*Martinsville, Ind.*	Freshman
Winkelblech, Lida Luella	*Millheim, Pa.*	Senior

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Two Year Course in Pharmacy

Ackermann, Karl Henry	*Plymouth*	First Year
Barnard, Karl Simeon	*Brillion*	Second Year
Barnett, Beauford Harrison	*Richland Center*	Second Year
Beck, Albert Fred	*Arcadia*	Second Year
Bennett, Ivan Leslie	*Cassville*	First Year
Bruss, Bernard William	*Milwaukee*	Second Year
Burthe, Harvey Jerome	*Deerfield*	Second Year
Carlson, Oscar Herbert	*Birnamwood*	Second Year
Charmley, Charles Clayton	*Madison*	First Year
Chisholm, John	*Madison*	Second Year
Davis, Edgar La Rue	*Madison*	First Year
Drewry, Bemrose William	*Milwaukee*	Second Year
Edwards, LeRoy Delos	*Lancaster*	Second Year
Engels, Fleurounge Elizabeth	*Madison*	First Year
Erickson, John Maurice	*Melrose*	First Year
Frosch, Bernadyne Georgina	*Manitowoc*	First Year
Gage, Earle Edgar	*Whitehall*	First Year

Garland, George Wesley	*Rapid City, S. Dak.*	Second Year
Geiger, George Leonard	*Monroe*	First Year
Goetsch, Raymond	*Watertown*	First Year
Hanson, Gerald Jay	*Wautoma*	Second Year
Hastings, Albert Clark	*Marshfield*	First Year
Heinzelman, Marshall Louise	*Kirkwood, Mo.*	First Year
Howard, Claude Randolph	*Prentice*	First Year
Jenkins, Glenn Llewellyn	*Sparta*	Second Year
Johnson, Mabel	*Ogdensburg*	Second Year
Kellman, Forrest Thompson	*Galesville*	First Year
Kellman, Norris John	*Galesville*	Second Year
Kitch, Glen DeWayne	*Bloomer*	Second Year
Kuester, Hugo Leslie	*Shawano*	First Year
Lewis, Charles Noble	*Madison*	First Year
Lounsbury, Harry Edward	*Richland Center*	Second Year
McCranner, Ivan Leland	*Madison*	First Year
Manor, John Andrew	*Durand*	First Year
Meredith, John James	*Madison*	First Year
Moen, Reuben Earl	*Coon Valley*	First Year
Pagenkopf, Herman August	*Bloomer*	Second Year
Parkin, Charles Arleigh	*Evansville*	Second Year
Pett, Frieda Ann	*Johnson Creek*	Second Year
Pies, Herbert William	*Sawyer*	First Year
Poole, Jesse Myrle	*Shiocton*	First Year
Powers, Clement Michael	*North Fond du Lac*	Second Year
Price, Reginald John	*Prescott*	First Year
Raleigh, John Patrick	*Chilton*	First Year
Rogatz, Maurice	*Niagara*	Second Year
Rosenquist, Rudolph John	*Stoughton*	Second Year
Schindler, George Edward	*Ashland*	Second Year
Schwake, Norbert Edward	*Two Rivers*	Second Year
Silverness, Nels Alvin	*Mondovi*	Second Year
Sinclair, Ralph Merritt	*Dundee, Ill.*	Second Year
Smedal, Gunna Magna	*McFarland*	Second Year
Stedman, Helen Ruth	*Waupaca*	First Year
Stone, Harold Nathan	*Rice Lake*	First Year
Stucky, Anton, Jr.	*Waseca, Minn.*	Second Year
Thomas, Benjamin John	*Madison*	Second Year
Turner, Ernest Charles	*Hartford*	Second Year
Uhl, Arthur Hoyt	*Galesville*	Second Year
Van Konynenburg, Bertram	*St. Croix Falls*	First Year
Voigt, Edwin John	*Appleton*	First Year
Weiterman, Earl Carl	*Kenosha*	First Year
Wiese, Louise Caroline	*De Pere*	First Year
Young, Earl David	*Melrose*	First Year
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Adult Special—Four Year Course

Dooley, Milton Lawrence	*Milwaukee*	Second Year
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Adult Special—Two Year Course

Aune, Roy Albert	*Rice Lake*	Second Year
Bendixen, Oliver Bennett	*Wautoma*	Freshman

Campbell, Cleo C.	*Glencoe, Ill.*	First Year
Decker, Harvey Charles	*Chilton*	First Year
Gallagher, Donald William	*Plainfield*	First Year
Phillips, Arthur G.	*Chicago, Ill.*	First Year

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School of Music

Seniors

Hanson, Herdis Parker s e	*Milwaukee*
Hull, Marion Mackey	*Milton Junction*
Mitchell, Olive Edith	*Madison*
Murray, Catherine Mary s e	*Wahpeton, N. Dak.*
Powers, Thrascilla Ann s e	*Mauston*
Quarberg, Isabelle Emma	*Mondovi*
Sanders, Alice Marie	*Madison*
Sanders, Paul Phillip	*Madison*
Sumption, Myra Rebecca	*Kendallville, Ind.*
Tillotson, Mary Elizabeth s e	*Waupun*
Winsor, Ella	*Mauston*
Wyatt, Doris	*Butler, Mo.*

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Juniors

Bennett, Ruth Marian	*Janesville*
Britts, Ruby Evans	*Duluth, Minn.*
Chandler, Martha Kuehmstedt s e	*Sheboygan*
Dickinson, Helen Rozella s e	*Edgerton*
Fritz, Fidelia Elizabeth s e	*Madison*
Hayden, Reba Claribel s e	*Madison*
Kohn, Florence Eleanor s e	*Madison*
Levi, Dorothea Everett s e	*Madison*
Loud, Helen E.	*New Madrid, Mo.*
Roberts, Helen Haynes s e	*Winona, Minn.*
Seybold, Sayda Ernestine s e	*Forest Junction*

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Sophomores

Atherton, Alice Fay	*Albany*
Bareis, Naomi Marie	*Madison*
Bates, Alice Cora	*Baraboo*
Beebe, Ruth s e	*Sparta*
Breitenbach, Janet Mary	*Madison*
Chandler, Ruth	*Waupaca*
Eastman, Vera Alice	*Grafton, Ill.*
Estvad, Rigmor Christensen	*Madison*
Gibbs, Merle Irene s e	*Clinton, Iowa*
Holton, Beatrice s e	*Edgerton*
Howe, Velma	*Ripon*
Johnson, Hannah Jane	*Madison*
Jones, Grace Mildred	*Yonkers, N. Y.*

s e, Registered in the School of Education.

Mitchell, Mira Louise s e	*Madison*
Oestreich, Caroline Mina	*New London*
Olds, Deborah Fay	*Madison*
Perham, Beatrice Minerva	*Sparta*
Reagan, Sara Louise	*Knightstown, Ind.*
Roselius, Marie Margaret	*West Alexandria, Ohio*
Showers, Mabel Caroline	*Madison*
Tollefson, Mildred Marian	*Mabel, Minn.*
Wilson, Irma Lucile	*New Glarus*

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Freshman

Brosius, Faythe	*Appleton*
Dieruf, Gladys Irene	*Madison*
Duncan, Erma Leona	*Madison*
Durrant, Josephine Almira	*Pontiac, Mich.*
Garten, Madge	*Indianapolis, Ind.*
Gruett, Verna Justine	*Rosendale*
Johnson, Temperance Drake	*Madison*
Lewis, Mary Carmalita	*Pocantico Hills, N. Y.*
Lewis, Rita Fae	*Chisholm, Minn.*
Lowe, Jane Louise	*Cookville, Tenn.*
McMahon, Ella Kathryn	*Madison*
Mack, Dorothy Elizabeth	*Ft. Atkinson*
Moore, Margaret Page s e	*Fond du Lac*
Mosel, Marion Tetia	*Sun Prairie*
Munz, Marian	*Detroit, Mich.*
Paris, Grace Ward	*Prairie du Chien*
Peterson, Mary White	*Madison*
Peterson, Ruth Bradley	*Madison*
Platt, Agnes Dorothea	*Elgin, Ill.*
Rosenberg, Sylvia H.	*Milwaukee*
Stein, Dorothy	*Milwaukee*
Stein, Mildred Elizabeth	*Harbor Springs, Mich.*
Vradenburg, Vera Josephine	*Madison*
Waite, Bernice	*Evanston, Ill.*

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Supervisor's Course

Second Year

Chisholm, Elizabeth Victoria s e	*Madison*
Christy, Viva Bell s e	*Clinton, Iowa*
Collier, Winifred Mary s e	*Oshkosh*
Dohr, Hattie Alma s e	*Kimberly*
Dufek, Anna Marie s e	*Mishicot*
Gunderson, Helen Margaret s e	*Fennimore*
Hanan, Lillian Mae s e	*Oregon*
Hintz, Elmer Melvin	*Sheboygan*
Knaup, Naomi Astha s e	*Beaver Dam*
Knight, Gladys Mary s e	*Mazomanie*
Labisky, Avis Marion s e	*South Milwaukee*
Lemmer, Ethel Marie s e	*Spooner*

Moseley, Ethel Beck s e	*Madison*
Olson, Alma Luella s e	*Malta, Ill.*
Osborn, Donald Burt s e	*Madison*
Pelzer, Agnes Theresa s e	*Cashton*
Rhodes, Vivian s e	*Galesville*
Skinner, Mildred Alice s e	*Tomah*
Steuber, Esther Lillian s e	*Prairie du Sac*
Zimmerman, Gladys Gertrude s e	*Fennimore*

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First Year

Bowen, Alice Helen s e	*Richland Center*
Carey, Lulu Helen s e	*Argyle*
Downey, Mary Antoninus s e	*Portage*
Fogarty, Elizabeth Carolyn	*Green Bay*
Griem, Lucy Ann s e	*New Holstein*
Hedstrom, Hazel Marie s e	*Oak Park, Ill.*
McGovern, Helen Mary s e	*Galesburg, Ill.*
Niere, Ethel Bell s e	*Watertown*
Simonsen, Morlyn Rosella s e	*Cambridge*
Stein, Doris Phillips s e	*Allegan, Mich.*
Stockdale, Vesta Alice s e	*Belmont*
Trotts, Gladys Verna s e	*Waterloo*
Yates, Margaret Devine	*Madison*

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Adult Specials

Four Year Course

Darrin, Josephine Nellie s e	*Kewaunee*	Senior
L'Hommedieu, Dorothy Kellogg	*Madison*	Freshman
Martinelli, Bruno	*Chicago, Ill.*	Freshman
Stoltz, Carl Walter	*Madison*	Freshman
Wells, Florence Grace	*Kenosha*	Freshman

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Supervisor's Course

Jaquish, John Henry s e	*Madison*	Second Year
Koschin, Milly Elizabeth s e	*Racine*	First Year

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Unclassified

Anderson, Margaret	*Madison*
Ballard, Elizabeth Carlotta	*Madison*
Brabant, Clara Elizabeth	*Madison*
Brewer, Constance Bernice	*Argyle*
Campbell, Mary Kate, B.A.	*Minneapolis, Minn.*
Cooper, Lucille Campbell	*Madison*
Christensen, Olga Katherine	*Racine*
Garness, Gladys Annetta	*Eau Claire*
Gordon-Smith, Alice Victoria	*Montclair, N. J.*
Hendra, Christopher	*Madison*
James, Mary Ventura	*Madison*
Kimball, Norman C.	*Madison*

Klassy, Ernst Wilbert	*Belleville*
McDaniel, Annabel	*Madison*
Patterson, E. Louise	*Flint, Mich.*
Ramsay, Lenora Marguerite	*Oconto*
Sister Mary Cordula	*Madison*
Sister Mary Felicita	*Madison*
Smith, Elizabeth A.	*Madison*
Thelen, Catherine Elizabeth	*Madison*
Thomas, Hattie Berthena	*Pierce City, Mo.*
Whiting, Florence Lillian	*Berlin*

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MEDICAL SCHOOL

Second Year

Bach, Mark John l s	*Milwaukee*
Berger, Elsa l s	*Milwaukee*
Bernhardt, Edmound Floyd l s	*Wilton*
Bigler, John Adolph l s	*Chippewa Falls*
Brown, Thomas Kenneth l s	*Waupun*
Bump, Warner Smith l s	*Wausau*
Caldwell, Hugh McIntyre l s	*Poynette*
Campbell, Everett Lowell l s	*Madison*
Carpenter, Earl Eugene l s	*Superior*
Caylor, Truman E. l s	*Bluffton, Ind.*
Clark, Burton, Jr. l s	*Oshkosh*
Conley, Henry Harold l s	*Cazenovia*
Connell, Arthur John, B.S. g	*Beloit*
Connell, Laura May l s	*Fond du Lac*
Corr, William Philip l s	*Juneau*
Craighill, Margaret Dorothea, B.A. g	*Madison*
Davidoff, Isidore Zolman l s	*Milwaukee*
Dobry, Lillian Anna l s	*Algoma*
Doerr, Margaret Alice l s	*Mt. Vernon, Ind.*
Dredge, Thomas Joseph l s	*Madison*
Ellis, Ivan George l s	*Milwaukee*
Evans, Richard Donald l s	*Madison*
Feeney, John Matthias l s	*Glenwood, Minn.*
Goff, Sidney Britton l s	*Elkhorn*
Gordon, Richard Jacob l s	*Chicago, Ill.*
Hall, Earle Hopkins l s	*Oconto*
Hemingway, Robert Wing l s	*Mattoon*
Hess, Ardis Marie l s	*Mauston*
Holford, Frances Elizabeth l s	*Cassville*
Ivey, Everett D., B.A. g	*Millston*
Jacobson, Roland Arthur l s	*Billings, Mont.*
Jahsman, William Edward, B.S.	*Manawa*
Jewell, Ernest Lemon l s	*Hillsboro*
Johnson, Harvey Chester l s	*Superior*
Kornreich, Eugene Frederick l s	*Milwaukee*
Krembs, Ferdinand Richard l s	*Stevens Point*
Krohn, Irwin Kjelland, B.A. g	*Black River Falls*
Kupperman, Frances Victoria l s	*Madison*
Laskey, Norman Franklin l s	*Superior*

Lowe, John William l s	*Whitehall*
Marsh, Harry Gilmore l s	*Waunakee*
Miller, Russell Howard l s	*Whitewater*
Murphy, Eleanor Janet, M.A. g	*Madison*
Newcomb, Alvah Lay l s	*Pepin*
Nickel, Allen Arthur Clarence, B.S.	*Milwaukee*
Ostlund, Elvina Otilia, B.A. g	*Butte, Mont.*
Paul, Olin l s	*Marshfield*
Peterson, Edward Nohl l s	*Florence*
Peterson, Leo Willis l s	*Granton*
Peterson, Marvin Garfield l s	*Geneva, Ill.*
Pierce, Harrison Morton, B.A. g	*Madison*
Rygh, Edgar Andrews l s	*Madison*
Schapiro, Saul l s	*Milwaukee*
Schlomovitz, Elias Herman l s	*Milwaukee*
Schlomovitz, Harry Herman l s	*Milwaukee*
Schubert, Clarence Karl, B.A. g	*Madison*
Schulz, Irwin Paul l s	*Milwaukee*
Teschner, Paul August Karl l s	*Milwaukee*
Thompson, Troy Melvin l s	*Madison*
Vickers, James Leonard, B.A. g	*Madison*
Vingom, Clair Odin l s	*Cleiv, Mont.*
Vogel, Samuel Alexander l s	*Superior*
Wacek, William Harold l s	*Madison*
Weston, Frank Laurance l s	*Mason City, Iowa*

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First Year

Bianco, Tony Joseph l s	*Spooner*
Blatter, Erwin Walter l s	*La Crosse*
Blount, John Gray l s	*Madison*
Boies, Laurence Randall l s	*Centuria*
Borman, Milton Carter l s	*Oshkosh*
Bowles, John Herschel l s	*Sheldon, Ill.*
Brown, Clarence Baxter l s	*Highland*
Bussey, Frederick Newton l s	*Chicago, Ill.*
Campbell, Arch Phelps l s	*East Ellsworth*
Carns, Marie Louise, B.A. g	*Knoxville, Ill.*
Clark, Marion Eugene l s	*Indianapolis, Ind.*
Conley, Rollin Morris l s	*Bristol, S. Dak.*
Conrad, Agnes, M.S. g	*Madison*
Coon, Gaylord Palmer l s	*Madison*
Couch, Timothy Tallman l s	*West Allis*
Culver, Lucian Glenn l s	*Eau Claire*
Dauksys, Joseph l s	*Madison*
Davis, James Bon Durant l s	*Marinette*
Doyle, Chauncey James l s	*Milwaukee*
Edwards, Wilmer Charles l s	*Marion*
Emerson, Adolph Herman l s	*La Crosse*
Exley, Erwin William l s	*Menasha*
Fagan, Robert Alvin l s	*Milwaukee*
Fehland, Harold Roland l s	*Merrill*
Flatz, George Henry l s	*Milwaukee*

Forsbeck, Filip Carolus l s	*Milwaukee*
Foshion, Herbert Victor l s	*Brussels*
Freitag, Veronica l s	*New Glarus*
Gasser, John Jacob l s	*Chicago, Ill.*
Gasul, Benjamin Morris l s	*Kenosha*
Gatterdam, Paul Christoffers l s	*La Crosse*
Gnagi, Will Bender l s	*Monroe*
Gregory, Lawrence William l s	*Valders*
Gyland, Stephen P, B.A. g	*Barron*
Hammond, Reginald Wilmot l s	*Manitowoc*
Hansen, Adolph M. l s	*Oregon*
Harman, Hubert Fish l s	*Sparta*
Harman, John Claire l s	*Sparta*
Hartlett, Elvin Mann l s	*Germantown, Pa.*
Harville, Clifford Henry l s	*Eau Claire*
Heidner, Frederick Carl l s	*West Bend*
Hess, James Samuel l s	*Mauston*
Hintz, David Herman l s	*Almond*
Hudson, Robert James l s	*Madison*
Hyslop, Volney Butman l s	*Madison*
Juster, Eugene Meyer l s	*Milwaukee*
Kastlin, George Jacob l s	*La Crosse*
Kelsey, Carl Hammond l s	*Stevens Point*
Kesten, Homer Davies, B.S. g	*Madison*
Knudson, Arthur Hackel l s	*Brooklyn*
Koehler, Alfred E., M.S. g	*Mishicot*
Kreutz, George Charles l s	*La Crosse*
Leslie, Eleanor Isabel, B.A. g	*Chicago, Ill.*
Lightfoot, Lester Roderick l s	*Cloquet, Minn.*
Lowth, Robert John l s	*Columbus*
Luce, Lester Oliver l s	*Eau Claire*
Luck, Charles Carlton l s	*San Marcos, Tex.*
McDougall, Tyrell Glen l s	*Britton, S. Dak.*
McGary, Lester l s	*Norwalk*
McGuire, Harry Joseph l s	*Waunakee*
McMurray, Ora Richard l s	*Evansville*
Madison, Frederick William l s	*Lodi*
Madsen, Mars Laurice l s	*Viborg, S. Dak.*
Maher, Beatrice l s	*Kalamazoo, Mich.*
Mailer, Andrew Robert l s	*Madison*
Mar, Severo Francisco l s	*Tampico, Mex.*
Marsden, Wendell Herbert l s	*Fennimore*
Meinert, Albert Erwin l s	*La Crosse*
Moon, John Frank l s	*Rosendale*
Mueller, Gustav Gottleib l s	*Princeton*
Ohlson, Guy Edward l s	*La Crosse*
O'Hora, James Timothy l s	*Mazomanie*
Osgood, Carroll Wilcox l s	*Windsor*
Peterson, Lyndle Wilson l s	*Shawano*
Pfefferkorn, Ethan Benjamin, B.A. g	*Jim Falls*
Phillips, Lyle Graham l s	*De Pere*
Pointer, Ruth l s	*Birmingham, Ala.*
Pope, Mary Howe, M.S. g	*Evanston, Ill.*

Schmitz, Henry Lenzen, B.S. g	*Chicago, Ill.*
Schneider, Charles Samuel l s	*Milwaukee*
Schneller, Edwin Jacob, B.S. g	*Prairie du Sac*
Schoen, Walter Renold l s	*Green Bay*
Schweiger, Leo Joseph l s	*Cashton*
Smedal, Erling Arnold l s	*McFarland*
Stearns, Dana Preston l s	*Mason City, Iowa*
Stucki, John Calvin l s	*Black River Falls*
Suhr, Alfred Louis l s	*Milwaukee*
Sutliff, Wheelan Dwight l s	*Rhinelander*
Talbot, Harry Elno l s	*Milton*
Tasche, Leslie William l s	*Sheboygan*
Thorngate, George, B.A. g	*Madison*
Tippet, Walter Pierson l s	*Appleton*
Toepfer, Raymond August l s	*Madison*
Vetten, Cornelius Nicholas l s	*Sheboygan*
Voss, Wesley August l s	*Beloit*
Wall, Mark Harry l s	*Eau Claire*
Weinberg, James Arthur l s	*Lonaconing, Md.*

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COLLEGE OF ENGINEERING

Seniors

Aanesen, Finn	*Kristiania, Norway*	M. E.
Albers, Walter Leland	*Hale Center, Tex.*	Min. E.
Andersen, Carl John	*Milwaukee*	E. E.
Avery, Norman Kirk	*Peoria, Ill.*	E. E.
Barth, Karl Peter	*Milwaukee*	C. E.
Bautz, Marshall	*Milwaukee*	M. E.
Bespalow, Eugene Frederick	*Chicago, Ill.*	C. E.
Bille, Harold William	*Marshfield*	C. E.
Bohn, Donald Ivan	*Madison*	E. E.
Brewer, Richard Wallace	*Mineral Point*	E. E.
*Broker, Harvey Raymond	*Chilton*	Ch. E.
Brown, Harold Hasley	*Neenah*	E. E.
Buckingham, Lyman Everett	*Ludington, Mich.*	Ch. E.
Butterman, Ernest	*Chicago, Ill.*	Ch. E.
Christensen, Harold Lund	*Berlin*	Ch. E.
Christensen, Martin	*Milwaukee*	E. E.
Cirves, Frank Herman	*Madison*	Ch. E.
Collins, Sidney Raymond	*Reedsburg*	C. E.
Congdon, Claire Cressey	*Delavan*	C. E.
Cretney, Robert Wesley	*Madison*	Ch. E.
Crider, Harold Elmer	*La Crosse*	C. E.
Davis, Russell Gardiner	*Milwaukee*	M. E.
Dean, Horace Kleffer	*Milwaukee*	M. E.
Dick, Walter Erwin	*Milwaukee*	E. E.
Donovan, Edward Thomas	*Milwaukee*	M. E.
Edmunds, Wade Melvin	*Madison*	E. E.
Emmerling, Hans	*Milwaukee*	Ch. E.

*Wisconsin Gas Association Fellow in Chemical Engineering

Erickson, Cyril Lambert	*Mondovi*	M. E.
Erickson, William Ernest	*Madison*	Ch. E.
Flom, Mervin Obert	*Madison*	M. E.
Ford, Henry Michael	*Janesville*	C. E.
Gerhardt, Adelbert Paul	*Neenah*	M. E.
Gould, Archie Hiram	*Nekoosa*	E. E.
Gregg, Scranton Hugh	*Milwaukee*	C. E.
Grimstad, Reuben Charles	*Mt. Horeb*	E. E.
Grubb, Everett Lorraine	*Indianapolis, Ind.*	Min. E.
Gustin, Glen Huston	*Wautoma*	C. E.
Hagen, Berger Amandus	*Stoughton*	M. E.
Hahn, Laurence Hugo	*Reedsburg*	Min. E.
Hamblen, Jennings Bryan	*Franklin, Ind.*	Ch. E.
Hantzsch, Ralph Eugene	*Milwaukee*	E. E.
Harvey, Lyle Clifford	*Oconto*	Ch. E.
Hawkins, Andrew B.	*Cameron*	M. E.
Hawkins, Raymon Nelson	*Madison*	Ch. E.
Hayes, Frank Severance	*Superior*	M. E.
Head, Guerdon Herbert	*Platteville*	Ch. E.
Henrichsen, Christian Brun	*Bergen, Norway*	C. E.
Hiestand, Francis Hall	*Madison*	C. E.
Hiestand, Jacob Richard	*Madison*	Min. E.
Hinkley, Elroy Hall	*Milton Junction*	C. E.
Humel, Lars Kjar	*Fond du Lac*	Min. E.
Hymer, Howard Golden	*Lancaster*	Min. E.
Ihlen, Alfred	*Shommen, Norway*	M. E.
Jackson, Morris Dunn	*Madison*	E. E.
Jaeger, Walter Carl William	*Cleveland*	C. E.
James, Burton Egbert	*La Crosse*	M. E.
Johnson, Elmer Dewey	*Ashland*	E. E.
Jourdan, Ralph Louis	*Madison*	Min. E.
Kates, Willard Anthony	*Arlington Heights, Ill.*	E. E.
Kelly, Pennell Clarke	*Fort Atkinson*	Ch. E.
Kemler, Herbert James	*Platteville*	Min. E.
Kirst, Leland Avery	*Dodgeville*	Ch. E.
Klement, Elmore Fred	*Ft. Atkinson*	C. E.
Knapp, Harold Clark	*Milwaukee*	Ch. E.
Koenecke, Paul M.	*Reedsburg*	Ch. E.
Krez, Frederick William	*Sheboygan*	C. E.
Kurtz, Chester Mott	*Milwaukee*	Ch. E.
Kurtz, Paul Henry	*Two Rivers*	M. E.
Larsen, Bernard Marvin	*Hayward*	Ch. E.
Latimer, George Theodore	*Chester, S. C.*	C. E.
Lehman, Donald Griffith	*Waupaca*	E. E.
Lenck, Arthur Roy	*Milwaukee*	C. E.
Lindner, Herbert George	*West Allis*	E. E.
Link, Marcus William	*Madison*	Min. E.
Loomis, Casey Vaughn	*Milwaukee*	E. E.
Lundberg, Gustaf Movitz	*Superior*	Min. E.
McCollum, George Willard	*Downers Grove, Ill.*	E. E.
McLenegan, David Wallace	*Madison*	M. E.
McManus, James Francis, Jr.	*Chicago, Ill.*	E. E.
Mann, Louis Russell	*Muskegan, Mich.*	Min. E.

Mansfield, Herbert Stanley	*Okauchee*	E. E.
Margoles, Harry	*Milwaukee*	C. E.
Miller, Benjamin Laurie	*West Allis*	Ch. E.
Miller, Harry Irl	*Madison*	E. E.
Miller, Karl Christensen	*Oshkosh*	C. E.
Mitchell, Malcolm	*Beloit*	Ch. E.
Moehlman, William Frederick	*Madison*	C. E.
Montgomery, Alvin Eugene	*Evansville*	Ch. E.
Morley, Chauncey McGarry	*Viroqua*	E. E.
Mueller, Emil Arthur	*Baraboo*	E. E.
Muth, Herbert Julius	*Milwaukee*	E. E.
Nash, Clyde Lester	*Eau Claire*	Ch. E.
Olson, Arthur Oliver	*Madison*	C. E.
Pesch, Anthony William	*West Bend*	Ch. E.
Peterson, Clarence William	*Salem*	M. E.
Peterson, Halmer Alfred	*Courtenay, N. Dak.*	E. E.
Pidcoe, William Weston	*Madison*	M. E.
Pitzner, Alwin Fredrick	*Johnson Creek*	Ch. E.
Pope, Frederick George	*Ableman*	Ch. E.
Posz, Howard Merl	*Winona, Minn.*	M. E.
Price, James Robertson	*Milwaukee*	C. E.
Rafeld, Ernest August	*Green Bay*	M. E.
Reed, Philip Dunham	*Milwaukee*	E. E.
Reuter, Wilfiam Robert	*Milwaukee*	C. E.
Rogers, Ross Walter	*Lisle, Ill.*	E. E.
Roman, Joe Ashton	*Viroqua*	Min. E.
Romig, Paul William	*Madison*	M. E.
Rotter, Israel Irving	*Milwaukee*	C. E.
Royer, Paul Anson	*Dixon, Ill.*	M. E.
Rubenstyne, Jack	*Chicago, Ill.*	M. E.
Ryan, Joseph Edward	*Janesville*	C. E.
Schaal, Norbert James	*Princeton,*	M. E.
Schmidt, Carlton Leonard	*Avoca*	Ch. E.
Schmitt, Francis Herman	*Milwaukee*	C. E.
Schrage, Charles Thayer	*Sheboygan*	E. E.
Schroeder, Gilbert William	*Milwaukee*	E. E.
Schuyler, Philip Kingsland	*Montclair, N. J.*	C. E.
Scofield, Lloyd Milton	*Sturgeon Bay*	Min. E.
Scott, Kenneth Loyal	*Madison*	E. E.
Seder, Willard James	*Milwaukee*	C. E.
Shapiro, Morris	*Milwaukee*	E. E.
Shoemaker, Milton Jackson	*Philadelphia, Pa.*	Ch. E.
Siegel, Robert Charles	*Madison*	E. E.
Silverstone, Leon	*Milwaukee*	Ch. E.
Smith, Forrest Ernest	*Blue Mounds*	M. E.
Sorenson, Helmer	*Whitefish Bay*	E. E.
Sternlieb, Hyman Alfred	*Milwaukee*	E. E.
Stewart, Duncan James	*Rockford, Ill.*	E. E.
Strate, Joseph Taylor	*Fargo, N. Dak.*	M. E.
Striegl, Albert Rollin	*Milton Junction*	C. E.
Strong, Thomas Foster	*Madison*	C. E.
Suhm, Clarence Falk	*Milwaukee*	Ch. E.
Svitavsky, Robert Ingersoll	*Racine*	E. E.

Taylor, Hamilton Dana	*Madison*	M. E.
Terhorst, Willis	*Milwaukee*	M. E.
Terry, Owen Rockefeller	*Stoughton*	E. E.
Terry, Ralph Hooper	*Madison*	E. E.
Tsao, Cheng-Kueh	*Peking, China*	Min. E.
Turneaure, Frederick Stewart	*Madison*	Min. E.
Vobach, Arnold Charles	*Madison*	Ch. E.
Walraven, Peter	*Kenosha*	C. E.
Walters, Warren Weir	*Madison*	Min. E.
Wegner Karl Harold	*Wausau*	Ch. E.
Westmont, Oscar B.	*Beloit*	Ch. E.
Wheaton, Herbert Hudson	*La Crosse*	C. E.
Willson, Clarence Ardry	*Madison*	C. E.
Zaumeyer, Robert John	*Milwaukee*	Ch. E.
Zimmerman, Wallace Raymond	*Beaver Dam*	M. E.
Zwicker, Michael Henry	*Madison*	Min. E.
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Juniors

Abrams, Ralph Bernard	*Milwaukee*	Ch. E.
Amidon, George Wallace	*St. Louis, Mo.*	Ch. E.
Anderson, Gerald Andrew	*Whitehall*	Ch. E.
Andree, Clarence Alois	*Milwaukee*	E. E.
Auby, Lawrence Copeland	*Madison*	M. E.
Austermann, Richard Wagner	*Madison*	E. E.
Ayton, Thomas William	*Kenosha*	E. E.
Bader, Earl Delbert	*Lyndon Station*	E. E.
Baker, James Stannard	*Amherst, Mass.*	E. E.
Baker, Loyal Southwick	*Madison*	E. E.
Barland, George Clarence	*Eau Claire*	E. E.
Barnes, Ernest Merrill	*Madison*	C. E.
Beck, Herbert Henry	*Fond du Lac*	E. E.
Beglinger, Richard Theodore	*Oshkosh*	Ch. E.
Bell, Lewis Farnum	*McGregor, Iowa*	M. E.
Bethke, Raymond Philip	*Elkhart Lake*	M. E.
Biersach, Herbert Frank	*Milwaukee*	C. E.
Birkenwald, Emil S.	*Milwaukee*	C. E.
Bittner, Theophilus Valerius	*Mayville*	E. E.
Bjornson, Bjorn Gudmundsson	*Reykjavik, Iceland*	E. E.
Borgman, George John	*Milwaukee*	Ch. E.
Bowman, Philip George	*De Pere*	E. E.
Bozarth, Roger Ainslee	*Cedar Falls, Iowa*	Ch. E.
Brandon, Earl Rudolph	*Milwaukee*	M. E.
Breuer, Orval William	*Manitowoc*	C. E.
Brill, William	*Green Bay*	E. E.
Brinck, Arne	*Christiania, Norway*	M. E.
Browne, William George	*Racine*	C. E.
Bruce, Robert Hart	*Milwaukee*	M. E.
Bruden, Clifford O.	*Eau Claire*	C. E.
Bruemmer, Carl William	*Milwaukee*	M. E.
Bryn, Harold B.	*Christiania, Norway*	E. E.
Buck, Horace Miller	*New York, N. Y.*	C. E.
Buckstaff, Sherwood	*Oshkosh*	Min. E.

Buese, Frank Arthur	*Kilbourn*	M. E.
Bulfer, Augustine Joseph	*Peru, Ill.*	Ch. E.
Bull, Benoyt Sidney	*Racine*	M. E.
Burnett, John Joseph	*Milwaukee*	Ch. E.
Butler, Jerome Roger	*Watertown*	C. E.
Cairns, Samuel Budd	*Houghton, Mich.*	M. E.
Campbell, Claude Wesley	*Beloit*	M. E.
Carson, William Henry Jr.	*Madison*	M. E.
Charlton, Alexander Richard	*Milwaukee*	M. E.
Chase, Leon Everett	*Viroqua*	C. E.
Christianson, Carl Bernard	*Stevens Point*	C. E.
Cobb, Elbert Smith	*Lake Geneva*	M. E.
Coddo, William Elmer	*Antigo*	M. E.
Cole, John Walter	*Independence*	E. E.
Coleman, Edwin DeWitt	*Barron*	Ch. E.
Colony, Martin Pratt	*Evansville*	E. E.
Connell, Walter James	*Menomonee Falls*	C. E.
Cooper, Charles Theodore	*Racine*	E. E.
Cotton, Alfred Robert	*Milwaukee*	E. E.
Cox, Edward Lorenz	*Madison*	M. E.
Cox, Irving Knapp	*Milwaukee*	M. E.
Davies, Frank Case	*Racine*	M. E.
Dewire, Donald Stevens	*Sharon*	E. E.
Dickinson, James Gilbert	*Milwaukee*	E. E.
Donnelly, Daniel Wilfred	*Appleton*	M. E.
Douglas, Malcolm Stewart	*Milwaukee*	C. E.
Drew, Everettt Glen	*Dubuque, Iowa*	Ch. E.
Drewry, Montrose Keller	*Madison*	M. E.
Ebentier, Albert Frank	*Sutton, N. Dak.*	Ch. E.
Ellis, Asher Robert	*Madison*	Ch. E.
Elstad, Edward Melvin	*Whitehall*	Min. E.
Enders, LeRoy Louis	*Delafield*	E. E.
Erbach, Frederick Rietbroch	*Athens*	M. E.
Erickson, Robert	*Cashton*	Min. E.
Ewald, Sterling Donald	*Louisville, Ky.*	M. E.
Fabian, Philip Joseph	*Hurley*	C. E.
Fanning, Willis Moore	*Delavan*	Ch. E.
Felber, Edward Richard	*Chippewa Falls*	M. E.
Feltman, Carl Howard	*Peoria, Ill.*	E. E.
Ferris, John Price	*Milwaukee*	M. E.
Fong, Samuel Thomas	*Canton, China*	Ch. E.
Foote, Perry Albert	*Erie, Pa.*	Ch. E.
Fourness, Earl Edward	*Madison*	Min. E.
Garber, Leslie Harold	*Diamond Bluff*	E. E.
Geilfuss, Marshall Adrian	*Milwaukee*	C. E.
Gerhauser, John Parrmann	*Appleton*	Ch. E.
Gericke, Wesley Otto	*Lake Mills*	Min. E.
Giddings, William Werner	*Mendota*	Ch. E.
Giles, Merritt Albert	*Peoria, Ill.*	M. E.
Goddard, Merrill Beecroft	*Madison*	M. E.
Golley, Frank Benjamin	*Milwaukee*	Ch. E.
Graves, Spencer Fred	*Wausau*	E. E.
Gregg, John Wyatt	*Milwaukee*	C. E.

Greiling, Winford Walter	*Green Bay*	M. E.
Grieve, Gilbert George	*Madison*	Min. E.
Gross, George Harrison	*York, Pa.*	M. E.
Gude, Hans Erik Anker	*Kristiania, Norway*	C. E.
Guenther, Felix Gustav Herman	*Port Washington*	E. E.
Guillemin, Ernest	*Milwaukee*	E. E.
Hamilton, Frank John	*Madison*	Ch. E.
Hanley, Edward Vincent	*Milwaukee*	M. E.
Hanson, Earl Parker	*Milwaukee*	M. E.
Hanson, Malcolm Parker	*Milwaukee*	E. E.
Hanson, Paul Edward	*Mondovi*	C. E.
Hanson, Ray Frederick	*Milwaukee*	C. E.
Harris, Robert Austin	*Oak Park, Ill.*	M. E.
Heins, Jacob Rudolf	*Madison*	E. E.
Henry, Edison Earl	*Ashland*	M. E.
Hensey, Earl William	*Fort Atkinson*	Ch. E.
Herrick, Roswell Harry	*Mineral Point*	E. E.
Hill, Alvah Moore	*Onalaska*	Min. E.
Hill, George Amos	*Baraboo*	E. E.
Hillstrom, Clarence Edwin	*Park City, Utah*	E. E.
Hillstrom, William Simon	*Park City, Utah*	E. E.
Hirshberg, Maurice Arthur	*Milwaukee*	Ch. E.
Hockings, William Francis	*Burlington*	E. E.
Hoe, George Marsden	*Milwaukee*	C. E.
Hoff, Carl Johan R.	*Kristiania, Norway*	E. E.
Hoffman, Harry Willis	*Ft. Atkinson*	Ch. E.
Holmes, John Bennett	*Pt. Pleasant, W. Va.*	Min. E.
Hornibrook, Francis Crary	*Marinette*	E. E.
Howes, Merwin Hayden, Jr.	*S. Milwaukee*	C. E.
Howland, Gardiner Greene	*Butte, Mont.*	Ch. E.
Hubbard, Honore Clinton	*Evansville*	Ch. E.
Huebner, Bernard William	*Madison*	M. E.
Hunziker, Chester Earl	*Tomahawk*	M. E.
Hyer, Frank Perry	*Whitewater*	E. E.
Isdahl, Einar	*Bergen, Norway*	M. E.
Jenswold, Henry Clement	*Duluth, Minn.*	M. E.
Johnson, James Warren	*Rye, Fla.*	C. E.
Johnson, Norman Lincoln	*New Ulm, Minn.*	C. E.
Jones, Logan A.	*Waukesha*	E. E.
Jones, T. Delbert	*Wales*	Min. E.
Karas, Leland Lewis	*Chicago, Ill.*	M. E.
Kellett, William Richard	*Neenah*	Ch. E.
Kellogg, Rolland Francis	*Edgerton*	M. E.
Kelly, Daniel Sheldon Whipple	*Pierre, S. Dak.*	E. E.
Kessler, Lewis Harold	*Columbia City, Ind.*	C. E.
Keuchel, John Nicholas	*Lake Geneva*	E. E.
Kircher, Ralph Nuel	*Merrill*	M. E.
Kirk, Cecil Humphrys	*Benchland, Mont.*	E. E.
Knollin, Albert Jason, Jr.	*Pocatello, Idaho*	C. E.
Kraus, Harold Lester	*Elkhorn*	E. E.
Krause, Gustavus Theodore	*Colfax*	E. E.
Krenz, Adolph Bruno	*Onalaska*	M. E.
Krenz, Alfred Samuel	*Jefferson*	Ch. E.

Krotz, Alva Shirley	*Janesville*	M. E.
Lallier, Wesley Charles	*Madison*	E. E.
Lamboley, Julian Joseph	*Belleville*	E. E.
Lanning, Brown Clifford	*Black River Falls*	E. E.
Ledin, Theodore Axel	*Kenosha*	Ch. E.
Lee, Harold Rudolph	*Superior*	E. E.
Linden, John Fred	*Hayward*	Min. E.
Livingston, Penn P.	*Elk Mound*	C. E.
Longenecker, Ernst Abraham	*Neillsville*	M. E.
Lord, George Curtis	*Cando, N. Dak.*	E. E.
Love, Merrill DeWitt	*Emerald*	M. E.
Loverud, Earl K.	*Stoughton*	C. E.
Lunda, Ernest Milo	*Madison*	E. E.
McKaig, Willard Hulick	*Long Branch, N. J.*	Ch. E.
McKinnon, Ralph Thomas	*Sioux Falls, S. Dak.*	C. E.
McMurran, Marshall John	*Madison*	E. E.
McNamara, Edward John	*Superior*	E. E.
Mabry, Armon Ercell	*Roanoke, Va.*	C. E.
Magann, Joseph Wilbur	*Madison*	E. E.
Maiers, Joseph Adam	*Platteville*	C. E.
Martin, Robert Moore	*Louisville, Ky.*	E. E.
Maxfield, Terrell Benjamin, Jr.	*Milwaukee*	M. E.
Mendonca, Marcello Prado	*Madison*	E. E.
Merriman, Charles Royce	*Beloit*	Ch. E.
Meyrick, Gordon Sumner	*Milwaukee*	E. E.
Miller, Birney Frank	*Franklin, Ind.*	Min. E.
Millington, Fred Meader	*La Crosse*	Ch. E.
Mitchell, Donald Eugene	*Beloit*	M. E.
Mohr, Ernest John	*Milwaukee*	E. E.
Moon, Parry Hiram	*Beaver Dam*	E. E.
Moran, James Edward	*Escanaba, Mich.*	M. E.
Moxon, Earl Robert	*Stevens Point*	C. E.
Nason, Charles Seymour	*Kenilworth, Ill.*	Ch. E.
Neumeister, Carl Louis	*Sheboygan*	C. E.
Newing, William Bowyer	*Appleton*	C. E.
Nogueira, Frederico Pupo	*Campinas, S. Paulo, Brazil*	E. E.
Nolte, Frederick William	*Wauwatosa*	E. E.
Norberg, Thomas	*Christiania, Norway*	M. E.
Nordstedt, Einar August	*Milwaukee*	E. E.
O'Connor, William Donald	*Hancock*	M. E.
Olson, Goldie Raymond	*Preston, Minn.*	E. E.
Ott, Elmer Albert	*Forest Junction*	E. E.
Oyster, Dalies Joshua	*Ripon*	E. E.
Palmer, Gail Wesley	*Wauwatosa*	E. E.
Parsons, Cecil Paul	*Sparta*	E. E.
Paul, George	*Hurley*	C. E.
Paulus, Raymond Lawrence	*Milwaukee*	E. E.
Pekofsky, Philip	*Milwaukee*	Ch. E.
Peterson, Sterling Donald	*Milwaukee*	E. E.
Pfeffer, Oscar	*Milwaukee*	Min. E.
Phillips, Harry Alexander	*Evanston, Ill.*	M. E.
Powell, Robert Bruette	*Wausau*	C. E.
Powers, Milton Alden	*Cudahy*	M. E.

Prideaux, Gwilym Fremont	*Dodgeville*	E. E.
Purnell, George William	*Madison*	M. E.
Radley, Harmon Monroe	*Wild Rose*	C. E.
Rasmussen, Clarence Fisher	*Park Falls*	E. E.
Rau, Irving Julius	*North Milwaukee*	Ch. E.
Raube, Reinhold Henry	*Waupun*	M. E.
Redin, Roy Wilmer	*Rockford, Ill.*	Min. E.
Richardson, Nels C.	*Sioux Falls, S. Dak.*	M. E.
Richter, Charles Frederic Rand	*Milwaukee*	M. E.
Robar, Garret Dewey	*Aurelia, Iowa*	E. E.
Robertson, Martin Rindlaub	*Platteville*	Ch. E.
Robertson, Richard Chamberlain	*Milwaukee*	Min. E.
Rohlfing, Anthony Ferdinand	*Milwaukee*	C. E.
Rolland, Sverre Lind	*Bergen, Norway*	C. E.
Rolsted, Simon Theodore	*Barron*	M. E.
Rove, Olaf Norberg	*Milwaukee*	C. E.
Rundorff, Robert Link	*Burlington, Iowa*	Ch. E.
Ryan, George Parker	*Madison*	Ch. E.
Samp, Arthur Martin	*Cecil*	M. E.
Scadden, Francis Herbert	*Crystal Falls, Mich.*	Min. E.
Schaub, Reginald R.	*Oconto Falls*	M. E.
Schlueter, Theodore Ludwig	*Watertown*	C. E.
Schmidt, Louis Adelbert, Jr.	*Milwaukee*	C. E.
Schneider, George Russell	*East Liverpool, Ohio*	C. E.
Schubring, George Frederick	*South Milwaukee*	C. E.
Seitz, Ole H.	*Mellen*	E. E.
Shapiro, Leo Henry	*Milwaukee*	C. E.
Sharp, Howard Melbourne	*Oconto Falls*	E. E.
Sickert, Otto Leonard	*Milwaukee*	Min. E.
Siebken, Herman Peter	*Elkhart Lake*	M. E.
Slichter, Donald Charles	*Madison*	Ch. E.
Solberg, Clarence Melvin	*Ashland*	Min. E.
Soll, Rolland Hugo	*Milwaukee*	Ch. E.
Spetz, Ralph Ferdinand	*Milwaukee*	C. E.
Spielman, Harold Joseph	*Park Ridge, Ill.*	Ch. E.
Staehle, Karl Arthur	*Manitowoc*	E. E.
Stegeman, Henry Randall	*Ft. Thomas, Ky.*	M. E.
Stewart, John De Muth	*Waukegan, Ill.*	M. E.
Stewart, Robert Dewey	*Cambridge*	E. E.
Strom, Sverre	*Trammen, Norway*	M. E.
Strong, John Stoughton	*Albion, Mich.*	E. E.
Swift, John Disnouef	*Portage*	M. E.
Taranger, Aksel	*Kristiania, Norway*	E. E.
Terry, Eugene John	*Baraboo*	E. E.
Thiel, Walter Conrad	*Schleisingerville*	C. E.
Traub, Walter George	*Milwaukee*	Ch. E.
Trayser, Anthony Chester	*New London*	E. E.
Trebus, Erwin Henry	*Eau Claire*	E. E.
Trinnier, Charles Marvin	*Denver, Colo.*	Ch. E.
Trueblood, Wilson David	*New York, N. Y.*	Ch. E.
Uhlig, William Frank	*East Orange, N. J.*	Min. E
Varney, Forrest Franklin	*Madison*	C. E.
Wallman, Otto Fred	*Stratford*	M. E.

Warmuth, Henry Joseph	*Philadelphia, Pa.*	Ch. E.
Watts, Wilbur Edmund	*Lomira*	E. E.
Wegner, Gilbert Walter	*Wausau*	Min. E.
Weitmann, Waldemar Ernst	*Milwaukee*	M. E.
Wengel, Raymond William	*Madison*	Ch. E.
Wheeler, Charles Eugene, Jr.	*Beloit*	C. E.
Whelan, William Miller	*Mondovi*	M. E.
Wille, Clarence Wilkins	*Milwaukee*	Ch. E.
Williams, Clement Herman	*Elkhart Lake*	Min. E.
Willis, Irving I.	*Milwaukee*	M. E.
Wolfe, Frank Tisch	*Kenosha*	M. E.
Wolters, Herbert Henry	*La Crosse*	Min. E.
Wolverton, Robert Farrow	*Oshkosh*	Min. E.
Woods, James Park	*Kansas City, Mo.*	M. E.
Youngberg, Adolf Frederick	*La Crosse*	C. E.
Zander, Karl Levenhagen	*Manitowoc*	C. E.
Zelonky, Benjamin	*Milwaukee*	C. E.
Zervas, Walter Ott	*Milwaukee*	C. E.

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Sophomores

Adam, Louis George	*Horicon*	E. E.
Affleck, Herbert John	*Muscoda*	C. E.
Ahern, Thomas Leo	*Fond du Lac*	M. E.
Aide, Dan Byron	*Waterloo, Iowa*	E. E.
Aiken, Howard Hathaway	*Indianapolis, Ind.*	E. E.
Alfery, Henry Frank	*Milwaukee*	E. E.
Ames, Kenneth Shirley	*Kenosha*	Ch. E.
Amundson, Helmer Clarence	*Rio*	C. E.
Anderson, Carter Henry	*Mauston*	Ch. E.
Anderson, Roy Percy	*Superior*	M. E.
Angle, Forrest Gates	*Sparta*	E. E.
Axelberg, George Willard	*Washburn*	C. E.
Bamford, William Lee	*Madison*	E. E.
Bandelman, Oliver John	*Mitchell, S. Dak.*	C. E.
Banks, Frederick Thomas	*Ashland*	E. E.
Barker, Orrin William	*Green Bay*	M. E.
Bartels, William Carl	*Sheboygan*	E. E.
Bean, George Elmer	*Teton, Idaho*	E. E.
Beckerman, Russell M.	*Milwaukee*	Ch. E.
Bennett, George Vincent	*Janesville*	Ch. E.
Betzer, Cecil Everett	*Kenosha*	E. E.
Biglow, Terry King	*Ashland*	Min. E.
Bittner, Victor Fredrick	*Mayville*	Ch. E.
Blaisdell, Charles Oswald	*Darlington*	E. E.
Bode, John Carl	*Keokuk, Iowa*	Ch. E.
Bogie, Mord M.	*Oak Park, Ill.*	Min. E.
Bogumill, Thomas Richard	*Thorp*	Ch. E.
Bohman, Robert Bruce	*Shorewood*	E. E.
Bohrnstedt, Russell George	*Arcadia*	M. E.
Bolender, Howard Hosier	*Monroe*	M. E.
Bonner, George Edward	*Oconto Falls*	E. E.
Boruszak, Nathan	*Milwaukee*	E. E.

Botsford, John Clarence	*Kearney, Nebr.*	Ch. E.
Bovingdon, Francis Fee	*Camptown, Pa.*	E. E.
Bowers, Archie Frank	*Hudson*	M. E.
Brant, Paul Swint	*Madison*	C. E.
Brown, Arthur E.	*Madison*	C. E.
Brown, Theron Adelbert	*Madison*	E. E.
Buchan, Floyd Wayne	*Fond du Lac*	E. E.
Buchner, Carl Frank	*Mayville*	Min. E.
Bumer, Frank Ludwig	*Pittsburgh, Pa.*	C. E.
Burelbach, Peter J.	*Knowles*	E. E.
Button, DeVere Ellsworth	*Sparta*	C. E.
Bybuth, Martin Edward	*Eau Claire*	M. E.
Cafferty, Neil George	*Madison*	E. E.
Cape, Charles Benjamin	*Racine*	E. E.
Carlson, Donald Warren	*Milwaukee*	M. E.
Christopherson, Fritz	*Grantsburg*	C. E.
Chyle, John Joseph	*Cudahy*	Ch. E.
Clark, John Melburn	*Rewey*	M. E.
Clark, Lemore Wilder	*Evansville*	E. E.
Clark, Robert Astby, Jr.	*Mauston*	E. E.
Clements, Chester Orville	*Marinette*	M. E.
Coe, Simeon Miles	*Sterling, Ill.*	E. E.
Connolly, Robert	*Racine*	C. E.
Cook, Arthur Kenneth	*Oshkosh*	M. E.
Corliss, Allen Gregory	*La Grange, Ill.*	Ch. E.
Day, John Gould	*West Bend*	E. E.
Debbink, Claude John	*Milwaukee*	C. E.
Dickson, Lester Raymond	*Milwaukee*	Ch. E.
Dieterle, John Herbert	*Brookston, Ind.*	M. E.
Dohr, Ira Robert	*Kimberly*	E. E.
Donaghey, James Bernard	*Madison*	C. E.
Drews, Norman W.	*Oshkosh*	Ch. E.
Duke, John Logan	*Madison*	Min. E.
Dunlop, James Dwight	*Indianapolis, Ind.*	M. E.
Dunn, Clark Allan	*Stickney, S. Dak.*	C. E.
Eddy, Robert William	*Madison*	E. E.
Edwards, Arthur Wesley	*Highland*	M. E.
Edwards, David Harold	*Cambria*	Ch. E.
Edwards, Max Hadsell	*Toledo, Ohio*	E. E.
Egan, Wilfred Martin	*Highland*	E. E.
Eiring, Erwin Bernard	*Milwaukee*	M. E.
Elliott, Harold Martin	*Gotham*	C. E.
Ellison, Frederick John	*Fond du Lac*	M. E.
Elmer, Arthur C.	*Plymouth*	C. E.
Emanuel, Alvin Jule	*Fall Creek*	Min. E.
Engler, Hugo Fred	*Waukesha*	C. E.
Ennor, William Trehane	*Madison*	Ch. E.
Evans, Herbert Vulse	*Chattanooga, Tenn.*	E. E.
Fairbank, Nelson Russell	*Fond du Lac*	E. E.
Farwell, Knight Dick	*Chicago, Ill.*	M. E.
Fenner, William Charles	*Milwaukee*	Min. E.
Finkle, George Henry	*Greenwood*	E. E.
Fisher, William Henry	*Minocqua*	C. E.

Fitze, Maurice Edward	*Beloit*	M. E.
Flint, Clarence Ellis	*Milwaukee*	C. E.
Flynn, William Patrick	*Milwaukee*	E. E.
Frank, David Solomon	*Sparta*	Ch. E.
French, Newell Ellsworth	*Racine*	E. E.
Friedman, Abraham Samuel	*Racine*	M. E.
Friedrichs, Alfred	*Milwaukee*	C. E.
Frost, Morton Charles	*Kenosha*	M. E.
Gallun, Albert Frederick, Jr.	*Milwaukee*	M. E.
Galpin, John Kennedy	*Indianapolis, Ind.*	M. E.
Ganther, Alfred Roman	*Oshkosh*	M. E.
Gassner, Aloysius Frederick	*Mayville*	E. E.
Gavin, George James	*New Richmond*	C. E.
Germond, Hallett Hunt	*Madison*	E. E.
Giddings, Harvard	*Fond du Lac*	C. E.
Gilbert, Harry Stanley	*Delavan*	C. E.
Gildersleeve, Tuttle Sherman	*Childs, Pa.*	E. E.
Giuli, Thomas	*Milwaukee*	C. E.
Glenn, Truman Greve	*Chilton*	M. E.
Gluesing, William Albert	*Gilmanton*	E. E.
Goetz, Fred Eldred	*Milwaukee*	E. E.
Goodlad, John Alfred	*Madison*	M. E.
Gray, John Engels	*Mineral Point*	M. E.
Green, Sherman Baldwin	*Morrison, Ill.*	C. E.
Greenberger, Elberto Bernard	*E. Las Vegas, N. M.*	M. E.
Greenman, Ralph Norton	*Aberdeen, S. Dak.*	C. E.
Growt, Glenn Nicholls	*Trempeleau*	C. E.
Guffey, Francis Amsden	*Clyde, Ohio*	C. E.
Gunther, Gustav Adolph	*Spooner*	M. E.
Haddorff, Irving R.	*Rockford, Ill.*	C. E.
Hanks, William Vilas	*Madison*	Ch. E.
Hansen, Magnus Christian	*Thorpe*	Ch. E.
Hansen, Merrill Elmore	*Beloit*	Ch. E.
Harbaugh, Marion Dwight	*Kansas City, Mo.*	C. E.
Hart, Lyman Herbert	*Madison*	Ch. E.
Haugen, Edmond Harrison	*Brookings, S. Dak.*	M. E.
Hawkins, Milner Haine	*Madison*	Min. E.
Hawn, Clarence	*Coleraine, Minn.*	Ch. E.
Henke, Herbert Frank	*Watertown*	E. E.
Henrichsen, Knut	*Bergen, Norway*	C. E.
Hentzen, Herbert Dick	*Milwaukee*	Ch. E.
Herbener, Otto Berthold	*Mayville*	Min. E.
Hering, Reuben Eugene	*Cross Plains*	E. E.
Herrick, Neal Dow	*Ipswich, S. Dak.*	E. E.
Hildebrant, Herbert Curt	*Milwaukee*	Ch. E.
Hoar, Walter George	*Shell Lake*	C. E.
Hoelz, Alfred Nicholas	*Milwaukee*	E. E.
Hoelz, Carl Edward	*Milwaukee*	E. E.
Hofberger, Raymond Dexter	*Shawano*	Min. E.
Hoffman, Philip Anthony	*Belle Plaine*	M. E.
Hoffman, LaVerne Milton	*Wilton*	C. E.
Holm, Harold Wilhelm	*Racine*	E. E.
Hotaling, Eugene Charles	*Fond du Lac*	Ch. E.

Jewell, Floyd B.	*New Lisbon*	C. E.
Johnson, Franklin Ervin	*Wausau*	Min. E.
Johnson, Irving Burdett	*Madison*	E. E.
Johnson, James, Jr.	*Wauwatosa*	E. E.
Johnson, John Basil	*Madison*	C. E.
Johnson, Lloyd Martin	*Superior*	M. E.
Johnson, Royce Everett	*Bear Creek*	E. E.
Johnson, Rudolph Clarence	*Chicago, Ill.*	M. E.
Jones, Everett Ward	*Fond du Lac*	Min. E.
Joys, John Eastman	*Milwaukee*	M. E.
Kahlenberg, Roger William	*Two Rivers*	M. E.
Kavanaugh, Paul Edward	*Antigo*	E. E.
Kellenberger, Bertram J.	*Mercer*	Ch. E.
Kemp, Harry Dudley	*Sparta*	M. E.
Kersten, Aurin William	*Hartford*	E. E.
Kingston, Lyle Henry	*Marinette*	E. E.
Kitchen, Harry Dean	*Madison*	Ch. E.
Klak, John James	*Thorpe*	E. E.
Klaus, Gustav Kuestermann	*Green Bay*	Ch. E.
Knecht, Otto Hessebroth	*Chicago, Ill.*	C. E.
Knott, William Morgan	*Antigo*	E. E.
Koch, Aaron Irwin	*Osceola*	M. E.
Koerner, Edwin Otto	*Sheboygan*	E. E.
Kolb, John Carl	*Chippewa Falls*	M. E.
Kolben, Emil Michal	*Madison*	C. E.
Koresh, George	*West Allis*	Ch. E.
Kortebein, Arthur John	*Milwaukee*	E. E.
Koskinan, Clyde John	*Fond du Lac*	M. E.
Koudelka, Edward John	*Antigo*	C. E.
Krause, Carl Walter	*Mellen*	M. E.
Krause, Otto Harry	*Mellen*	M. E.
Krueger, Raymond Arthur	*Merrill*	E. E.
Kubosch, Frank	*Milwaukee*	Ch. E.
Kuehlthau, Wareham Adam	*West Bend*	E. E.
Kurtz, Maynard Lynn	*Ft. Atkinson*	C. E.
Labudde, John Frederick	*Oshkosh*	C. E.
Lamb, Kenneth Ellsworth	*Madison*	E. E.
Landkamer, Othmar Frank	*Mankato, Minn.*	E. E.
Larson, Carl F.	*Florence*	Min. E.
Larson, Guy Henry	*Forestville*	Min. E.
Larson, Lars Alfred	*Madison*	E. E.
Larson, Noble Guy	*Barron*	E. E.
Leemhius, Carl William	*Toledo, Ohio*	Min. E.
Leighton, Frederick August	*Milwaukee*	M. E.
Leonard, John Burton	*Oshkosh*	M. E.
Lewis, Hugh Lord	*Antigo*	M. E.
Lewis, Robert Benjamin	*St. Louis, Mo.*	Ch. E.
Liebermann, Albert Bellack	*Watertown*	Ch. E.
Liebert, Eugene George	*Milwaukee*	M. E.
Lohman, Leslie Curtis	*Two Rivers*	M. E.
Lotter, Joseph Conrad	*Seymour*	E. E.
Lu, Chia Chun	*Peking, China*	M. E.
Luedtke, Elroy Robert	*Reedsville*	C. E.

McArthur, Donald Arthur	*Gary, Ind.*	M. E.
McCabe, Eugene Horace	*Madison*	M. E.
McCaffery, Richard Stanislaus, Jr.	*Madison*	Min. E.
McCann, Augustus Ripley	*Richland Center*	E. E.
McConnell, Philip Swain	*La Crosse*	E. E.
McDonough, John William	*Edgerton*	E. E.
Mackie, James Everett	*Green Bay*	C. E.
Manchester, F. Edward	*Racine*	E. E.
Mangold, John Victor	*Milwaukee*	Min. E.
Manke, Arthur Gustav	*Norwalk*	E. E.
Manning, Willis L.	*Clark, S. Dak.*	M. E.
Mansfield, Carroll Golden	*Reedsburg*	E. E.
Mariategui, Benjamin	*Lima, Peru, S. A.*	C. E.
Marks, Israel Edward	*Kenosha*	C. E.
Maurer, Harold John	*Milwaukee*	M. E.
Merriam, Allison William	*Geneseo, Ill.*	E. E.
Meyers, Everett Charles	*Reedsburg*	C. E.
Michael, Constant Hadji	*Neenah*	M. E.
Miller, Edward Holmes	*Green Bay*	E. E.
Miller, Thomas Foster	*Green Bay*	E. E.
Minshall, Neal Edward	*Viroqua*	C. E.
Mitchell, Norman McLeod	*Tomahawk*	M. E.
Mogg, J. Owen	*Indianapolis, Ind.*	M. E.
Mohs, Carl Elijah	*Madison*	Ch. E.
Monroe, Howard James	*Baraboo*	Ch. E.
Morey, Howard Elmer	*Plainfield*	Ch. E.
Mortrud, Knut	*Lillehammer, Norway*	M. E.
Muegge, Oswald John	*Walsh, Ill.*	C. E.
Mueller, Carl Ernest	*Milwaukee*	M. E.
Nalbach, John Roesch	*Madison*	E. E.
Natwick, John Wesley	*Wisconsin Rapids*	M. E.
Nelson, Carl Oliver	*Eau Claire*	M. E.
Nelson, Floyd Elmer	*Kenosha*	E. E.
Nemetz, Victor Wenzel	*Kewaunee*	E. E.
Nerad, Anthony Joseph	*Racine*	M. E.
Neumann, Adelbert George	*Milwaukee*	E. E.
Newell, Foster Sherriff	*Irma*	Ch. E.
Nichols, Thomas Chester	*Milwaukee*	M. E.
Nielsen, Arnold Helmuth	*Sparta*	E. E.
Niles, Thomas MacMaster	*Oak Park, Ill.*	C. E.
Nixon, Cleveland Ford	*Racine*	Ch. E.
Noble, Ross Allen	*Riceville, Iowa*	M. E.
Onstad, Ragnar Erick	*Madison*	E. E.
Ostrander, Sylvester Benjamin	*Columbus*	M. E.
Ouweneel, William Anton	*Milwaukee*	M. E.
Padgham, Lorenzo John	*Port Edwards*	Ch. E.
Palechek, Walter Richard	*Chaseburg*	M. E.
Palmer, Walter Webster	*Oakfield*	M. E.
Park, Maurice Sanborn	*Madison*	M. E.
Peterson, Harold Arthur	*Odanah*	E. E.
Peterson, Julian LeRoy	*Beloit*	M. E.
Pfleger, Walter Edward	*Milwaukee*	Ch. E.
Phillips, Rufus Seely	*Platteville*	M. E.

Pickford, Jerome Michael	*Cudahy*	Ch. E.
Porth, Walter Henry	*Milwaukee*	M. E.
Potts, John Arlington	*Madison*	E. E.
Powers, Harold R.	*Oshkosh*	Min. E.
Price, Elmer Ehlers	*McComb, Miss.*	C. E.
Rabbitt, Ora Clyde	*Viroqua*	C. E.
Rabuck, Arthur Jacob	*Reedsburg*	C. E.
Radke, Alfred Herbert	*Madison*	Ch. E.
Rahr, Frederick Albert, Jr.	*Green Bay*	E. E.
Rehfeld, Paul Hiles	*Milwaukee*	E. E.
Reichelt, Lester Oswald	*La Crosse*	M. E.
Reitow, Lincoln Alfred	*Sheboygan*	M. E.
Rice, Wallace Henry	*Kansas City, Mo.*	C. E.
Richmond, Laurence Palmer	*Lodi*	E. E.
Riggs, Burd Joy	*Crandon*	M. E.
Riley, Timothy Harvey	*Madison*	E. E.
Roberts, John Allen	*La Grange, Ill.*	M. E.
Roberts, John William	*Milwaukee*	Ch. E.
Roberts, Morris T.	*Milwaukee*	Min. E.
Robinson, Warren Jethro	*Granton*	Ch. E.
Roehl, Arnold Elmer	*Wausau*	C. E.
Rufsold, Arnold Sofus	*Marinette*	E. E.
Rupp, Harold Melvin	*Portage*	E. E.
Rusch, Hugo Leonard	*Reedsville*	E. E.
Russell, Cecil Ruffeld	*Christchurch, New Zealand*	C. E.
Sanderson, Ralph Linwood	*Baraboo*	M. E.
Schaeht, Delbert Herman	*Augusta*	E. E.
Schjolberg, Eiler Kaurin	*Kristiania, Norway*	M. E.
Schjolberg, Ragner Kaurin	*Kristiania, Norway*	M. E.
Schmidt, Chester John	*Monroe*	M. E.
Schmit, Dominic Frank	*Port Washington*	E. E.
Schoenlaub, Harold Houghton	*Madison*	E. E.
Schultheis, Herbert John	*Milwaukee*	Ch. E.
Schultz, Jess Emil	*Black Earth*	C. E.
Schwarz, Edwin	*Belvidere, Ill.*	E. E.
Senger, Werner Irving	*Madison*	M. E.
Servatius, John Peter	*Black Creek*	E. E.
Shaw, Ralph	*La Crosse*	C. E.
Simons, Fred Adams	*Newtonville, Mass.*	C. E.
Slezak, John	*Racine*	M. E.
Smart, John Wilfred	*Montello*	E. E.
Smongeski, Paul Peter	*Two Rivers*	M. E.
Sobey, James Henry	*Dodgeville*	E. E.
Sogard, Lawrence Taylor	*Racine*	M. E.
Solberg, Berger	*Trondhjem, Norway*	M. E.
Spielman, Gordon Peter	*Park Ridge, Ill.*	M. E.
Stalker, Dwight Flack	*St. Anthony, Idaho*	M. E.
Steel, Homer James	*Milwaukee*	M. E.
Steffen, Milton Carl	*Milwaukee*	E. E.
Stein, Jerome Reed	*W. Bloomfield, N. Y.*	E. E.
Steinmetz, George Philip	*La Farge*	C. E.
Stephens, Leon Benjamin	*Bear Springs, Mont.*	E. E.
Stewart, Frederick Charles	*Madison*	M. E.

Stewart, Lynn William	*Rockford, Ill.*	Ch. E.
Stewart, Sturtevant	*Rockford, Ill.*	E. E.
Streeter, Raymond	*Kewaunee*	E. E.
Strock, Reeve Orno	*Polo, Ill.*	E. E.
Strothman, Edmond Pennel	*Milwaukee*	M. E.
Stumpf, Walter Peter	*Madison*	M. E.
Sullivan, John Frederick, Jr.	*Hurley*	M. E.
Tang, Po Chan	*Hong Kong, China*	Ch. E.
Taylor, Reid William	*Kenosha*	M. E.
Taylor, Thomas Dewey	*Chicago Heights, Ill.*	Min. E.
Tesch, George Walter	*Port Washington*	Ch. E.
Tesch, Willard John	*Port Washington*	Ch. E.
Thessen, Paul George	*Milwaukee*	M. E.
Thomas, Walter Edward	*Milwaukee*	Ch. E.
Timmons, James Samuel	*Monroe*	E. E.
Ting, Ssu-Hsien	*Peking, China*	Ch. E.
Tobin, Harold Heber	*Mellen*	Ch. E.
Topolinski, Frank Henry	*Milwaukee*	E. E.
Traiser, Louis Martin	*New Richmond*	E. E.
Trotter, Richard Adelbert	*Virginia, Minn.*	M. E.
Tschudy, Lionel Carl	*Monroe*	C. E.
Tuttle, Harold Shipman	*Balsam Lake*	C. E.
Vanderkodde, William Frederick	*Sheboygan*	E. E.
Vergin, Charles John	*Poy Sippi*	M. E.
Vilberg, Clarence Benjamin	*Mt. Horeb*	C. E.
Vitcenda, Theodore J.	*Cashton*	Min. E.
Vornholt, Karl Edward	*Madison*	E. E.
Votteler, Theodore	*Waukesha*	Ch. E.
Wade, Irving Luther	*Wauwatosa*	M. E.
Walker, Albert Livingston	*Oak Park, Ill.*	M. E.
Wasson, Clinton Irish	*Muncie, Ind.*	Ch. E.
Watson, Kenneth Merle	*Mauston*	Ch. E.
Webster, Francis Lyle	*Turtle Lake*	E. E.
Webster, George Walter	*Milwaukee*	E. E.
Weckwerth, Herbert Frederick	*South Kaukauna*	E. E.
Weiss, Harold Charles	*Rensselaer, Ind.*	Min. E.
Wicker, Kenneth Russel	*Stratford*	C. E.
Willey, Charles Steelmay	*Louisville, Ky.*	E. E.
Wilson, Ernest Emerson	*Cedar Falls, Ia.*	Ch. E.
Wilson, Lawrence John	*Orangeville, Ill.*	M. E.
Wolters, Edward Christian	*La Crosse*	Min. E.
Woschutz, Joseph Frank	*Milwaukee*	Ch. E.
Wu, Wei Chow	*Shensi, China*	E. E.
Wupper, Benjamin Franklin	*Milwaukee*	M. E.
Young, Raymond Albert	*Wauwatosa*	E. E.
Zander, Arnold Scheuer	*Two Rivers*	C. E.
Zapfe, Emil Julius	*Madison*	C. E.
Zoerb, Howard McKinley	*Two Rivers*	M. E.

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Freshmen

Ackerman, Edmund Kennedy	*Cleveland, Ohio*	Min. E.
Aderman, Edward Frank	*Gresham*	C. E.

Agne, Alfred Lawrence	*Racine*	Ch. E.
Alberts, Harry Carl	*Milwaukee*	M. E.
Albrecht, Clarence William	*Madison*	Min. E.
Alder, Charles Marion	*Monroe*	C. E.
Allen, William Raymond	*Trempealeau*	E. E.
Amundson, Edward	*Rio*	M. E.
Anderson, Carl Hans	*Milwaukee*	M. E.
Anderson, James K.	*Madison*	M. E.
Anderson, Wells Foster	*Tomah*	Min. E.
Anstey, Sprague Harold	*Beetown*	E. E.
Anthony, Herman Russell C.	*Madison*	M. E.
Armfield, Harold Walter	*Fennimore*	E. E.
Aronberg, Winfield Ellis	*Chicago, Ill.*	Ch. E.
Averill, Robert Lincoln	*Batavia, Ill.*	E. E.
Baehr, William Byron	*Chicago, Ill.*	Ch. E.
Baldwin, Raymond Mathews	*Beloit*	E. E.
Ballam, Horace Victor	*Marshfield*	C. E.
Bancroft, John Raymond	*Madison*	E. E.
Barlow, Carl Nathan	*Elgin, Ore.*	Ch. E.
Barrus, Warner Milnot	*Clinton*	E. E.
Bartruff, Chester Earl	*Chicago, Ill.*	M. E.
Bear, Lauren Dewey	*Janesville*	M. E.
Beatty, William Gibbs	*Birmingham, Ala.*	M. E.
Becker, Elmer William	*Appleton*	Min. E.
Beer, Paul George	*Port Washington*	E. E.
Benishek, Adolph John	*Manitowoc*	C. E.
Bennett, William Harold	*Ft. Atkinson*	M. E.
Bentson, Harold Jack	*Kenosha*	M. E.
Benyas, David	*Appleton*	E. E.
Besaw, Edward Clarence	*Shawano*	E. E.
Best, Leslie George	*Rochester*	Ch. E.
Beyer, Conrad Sternoff	*Madison*	M. E.
Bienfang, Arnold John	*Jefferson*	C. E.
Blanch, Frederick Doig	*Claremont, Minn.*	E. E.
Bliss, George William	*Mineral Point*	C. E.
Boerner, Thomas James	*Port Washington*	E. E.
Boruszak, Melvin	*Janesville*	Ch. E.
Bowman, Harold F.	*Sauk City*	Min. E.
Bradford, Rozillian Francis	*Madison*	C. E.
Bradley, Clare Smith	*Beloit*	Ch. E.
Branovan, Leo	*Milwaukee*	M. E.
Braun, Fred William	*Milwaukee*	Ch. E.
Breed, Bowman Knight	*Racine*	M. E.
Breimeister, Harry	*Milwaukee*	C. E.
Brietenbach, William Edgar	*Madison*	M. E.
Breivogel, Milton William	*Two Rivers*	C. E.
Bruhnke, Leslie	*Milwaukee*	M. E.
Buchmann, John Leo	*Kenosha*	C. E.
Buerk, Frederick Carl	*Racine*	E. E.
Burch, Ralph Byron	*Madison*	C. E.
Burkhardt, Christian Erwin	*Burkhardt*	E. E.
Buse, Leslie August	*Beloit*	E. E.
Buseth, Sverre Allen	*Deerfield*	E. E.

Buttery, Homer Hatfield	*Darlington*	M. E.
Caldwell, Earl Leroy	*Indianapolis, Ind.*	M. E.
Call, Rodney Warren	*Merrill*	M. E.
Callen, Carroll Francis	*Milwaukee*	Min. E.
Carlson, Edwin Albert	*Wausau*	C. E.
Carlson, George Alfred	*Oconto*	M. E.
Carlyon, William Ralph	*Burlington*	E. E.
Carman, Everett Perry	*Washington, D. C.*	Ch. E.
Cassoday, John B.	*Madison*	M. E.
Chamberlain, Earl Wellington	*Mauston*	C. E.
Chambers, Charles Jamieson	*El Dorado, Kans.*	M. E.
Chandler, Edwin Woodward	*Waupaca*	M. E.
Christensen, Holgar Leonard	*Neenah*	M. E.
Claussen, Peter Henri	*Ettrick*	E. E.
Coe, Donald Omer	*Shelby, Ohio*	C. E.
Conger, Clarence Emerson	*Riceville, Iowa*	M. E.
Cook, Maurice Stanley	*Chippewa Falls*	M. E.
Cooley, Donald Nash	*Wauwatosa*	C. E.
Covell, Arnold Benedict	*North Hudson*	Min. E.
Cox, John Victor	*Clear Lake, Iowa*	C. E.
Crabb, Francis Aloysius	*Green Bay*	E. E.
Czerwonky, Hugo Emil	*Milwaukee*	M. E.
Dahlberg, Frank Joseph	*Daggett, Mich.*	C. E.
Day, Frank Julius	*West Bend*	E. E.
Deadman, William Webster	*Sault Ste Marie, Mich.*	M. E.
Dear, Ernest Reginald	*Ironwood, Mich.*	E. E.
Decker, Fred Joseph	*Evansville*	C. E.
Derzavitz, Charles	*Milwaukee*	Min. E.
De Smith, Walter William	*Sheboygan*	C. E.
Desmond, John Thomas	*Boscobel*	C. E.
Dey, Marcel Estabrook	*Chicago, Ill.*	C. E.
Dibley, Frederick Kemp	*Trenton, N. J.*	C. E.
Dietzman, Oscar Leroy	*Richland Center*	E. E.
Diffor, Wallace Dean	*Superior*	C. E.
Doescher, Ernest Bernhardt	*Platteville*	E. E.
Dollmeyer, Walker George	*Freeport, Ill.*	Min. E.
Donkle, Melvin Clarence	*Madison*	Ch. E.
Douglas, James Kenneth	*Milwaukee*	E. E.
Dowling, Roy Charles	*Dodgeville*	E. E.
Drake, Roy Cameron	*Burlington, Iowa*	C. E.
Drissen, Wallace William	*Port Washington*	M. E.
Dudley, Delos Edson	*Madison*	M. E.
Dyrud, Martinus Jacob	*Baraboo*	Ch. E.
Eaton, Temple Osman	*Virginia, Minn.*	E. E.
Ecker, Walter Kenneth	*Madison*	C. E.
Edman, Ralph William	*Rockford, Ill.*	M. E.
Eicher, Kenneth Moody	*Chicago, Ill.*	M. E.
Eisele, Dudley Edward	*Iron Mountain, Mich.*	C. E.
Elliott, Harold Martin	*Gotham*	C. E.
Engelke, Arnold Joseph	*La Crosse*	E. E.
Engelke, Herman Gerhard	*Milwaukee*	Ch. E.
Estes, Deloit Fast	*Goshen, Ind.*	E. E.
Evanson, Henry Bernard	*Mt. Horeb*	E. E.

Evensen, Eugene Laurence	*Milwaukee*	C. E.
Fahrenkrog, Elmer H.	*Logan, Iowa*	M. E.
Farlow, Harry Clayton	*Kansas City, Mo.*	C. E.
Faull, Harry Mathews	*Bessemer, Ala.*	E. E.
Feirn, William Hatherell	*Janesville*	M. E.
Fiedler, Stewart Otho	*Madison*	Ch. E.
Field, Walter Sherman	*Chicago, Ill.*	Min. E.
Fischer, Herbert B.	*Embarrass*	E. E.
Fisk, George Robert	*St. Croix Falls*	M. E.
Fletcher, Harold Chester	*La Crosse*	E. E.
Florman, Harold	*Pueblo, Colo.*	Ch. E.
Foren, Francis Joseph	*Fond du Lac*	C. E.
Forrest, William Chapman	*Poynette*	E. E.
Foss, Burton Royal	*Oconomowoc*	E. E.
Fraser, Allen Morgan	*Brodhead*	E. E.
Fraser, George Manley	*Brodhead*	C. E.
Frederick, Arthur Charles	*Madison*	M. E.
Fritsche, Oscar Otto	*Prairie du Chein*	C. E.
Funk, Jack Head	*Fort Dodge, Ia.*	C. E.
Galby, Ralph Victor	*Chetek*	M. E.
Gansen, Edward Frank	*Oshkosh*	E. E.
Garin, Paul Edward	*Viroqua*	E. E.
Gary, Charles Vilas	*Madison*	Ch. E.
Gausman, William Henry	*Verona*	E. E.
Gazett, Milton Elbridge	*Green Bay*	M. E.
Gerhardt, William Arthur	*Neenah*	Ch. E.
Gibson, Harley Louis	*Madison*	E. E.
Gibson, James King	*Wisconsin Rapids*	M. E.
Giddings, Leo Henry	*Barron*	E. E.
Gilbertson, Gunder	*Manitowoc*	C. E.
Gilson, Edwin Russell	*Hammond, Ind.*	E. E.
Gladson, Clifford Clarence	*St. Louis, Mo.*	Min. E.
Goddard, George Gaylord	*Oconto Falls*	E. E.
Goldberg, Ezra	*Sparta*	E. E.
Greeley, William Frederick	*Delavan Lake*	M. E.
Greene, Ernest Wilfred	*Plant City, Fla.*	Ch. E.
Gregg, Hendrick Jefferson	*Madison*	E. E.
Greiling, David John	*Green Bay*	M. E.
Griswold, George Greene	*Milwaukee*	E. E.
Gross, Bernard Karl	*Peoria, Ill.*	C. E.
Gruenheck, Estelle Kathryn	*Fond du Lac*	C. E.
Guthrie, Orville	*Waukesha*	E. E.
Guttke, Walter Otto	*Berwyn, Ill.*	M. E.
Hahn, Leonard Earl	*Kenosha*	Ch. E.
Hammann, William	*Milwaukee*	C. E.
Hansen, Harold Edgar	*Green Bay*	M. E.
Hansen, Steiner Edward	*Ashland*	M. E.
Hanson, Donald Parker	*Milwaukee*	C. E.
Hare, Clarence Matthew	*Barksdale*	C. E.
Harris, Robert Edward	*Chicago, Ill.*	Ch. E.
Hayward, Howard Vincent	*Milwaukee*	M. E.
Hazen, Harvey Duke	*Phelps*	M. E.
Heath, Stanley Gladstone	*Kenosha*	C. E.

Hendricks, Meredith Sherwood	*Ingleside, Ill.*	E. E.
Henricks, Gunahr Bruun	*Melsomvik, Norway*	M. E.
Herrewig, Erwin Henry	*Wonewoc*	E. E.
Herschleb, Henry Arthur	*Lodi*	E. E.
Hilliard, Spencer Gordon	*Milwaukee*	M. E.
Himmelstein, Carl Joseph	*Milwaukee*	M. E.
Hirsch, Edmund	*Milwaukee*	C. E.
Hitchins, Owen Stanhope	*Waterloo, Iowa*	M. E.
Hjorth, Albert Nathaniel	*Janesville*	E. E.
Hoefer, Arthur C.	*Juanita, N. Dak.*	E. E.
Holden, Charles Edward	*Burkhardt*	C. E.
Hollenbeck, Henry Clay	*Milwaukee*	M. E.
Hopkins, Leland Sumner	*Redfield, S. Dak.*	M. E.
Hoyt, Walter Edmund	*Rosendale*	E. E.
Hrubesky, George Frederick	*Menasha*	M. E.
Hudson, Alfred	*San Nicholo, Argentine Republic*	E. E.
Hunsader, Lawrence Joseph	*Algoma*	C. E.
Hymer, Horace Richard	*Lancaster*	Ch. E.
Ingraham, William Foster, Jr.	*Sioux City, Iowa*	C E.
Irish, Russell Johnston	*Madison*	M. E.
Janzer, Lorin Henry	*Milwaukee*	C. E.
Jardine, James Beverly	*Madison*	C. E.
Jardine, Tom Forrest	*Madison*	M. E.
Jardine, Zac	*Madison*	M. E.
Jenkins, Norman Joseph	*Beloit*	M. E.
Johnson, Arthur Oliver	*Madison*	M. E.
Johnson, Floyd Dwight	*Bear Creek*	E. E.
Johnson, Howard Edward	*Ashland*	M. E.
Johnson, William Schuyler	*Chippewa Falls*	C. E.
Jones, Stanley Miles	*Rice Lake*	M. E.
Jossart, Ferris Prosper	*Minocqua*	C. E.
von Kaas, Herman Karl	*Milwaukee*	M. E.
Kanard, Leonard John	*La Crosse*	C. E.
Karnath, George Paul	*Fountain City*	Ch. E.
Kernan, Harold Henry	*Madison*	C. E.
Kierzkowski, John Edmond	*Cudahy*	C. E.
Kietzman, Edward Herman	*Westfield*	E. E.
King, Edward John	*Watertown*	E. E.
King, Ted Roosevelt	*Starkweather, N. Dak.*	C. E.
Kinsey, William Putnam	*St. Louis, Mo.*	M. E.
Klosor, Edward	*Cassville*	Min. E.
Kloser, George Gus	*Cassville*	Min. E.
Kloser, Marcellus Paul	*Cassville*	Min. E.
Knutson, Clarence Edward	*Blair*	E. E.
Koch, George Mack	*Shelby*	E. E.
Koch, Norman Frederich	*Milwaukee*	M. E.
Krager, Arthur Gus	*Chippewa Falls*	E. E.
Krieger, Elmer Carl	*Milwaukee*	C. E.
Kriz, George Alan	*Milwaukee*	Min. E.
Kroesche, Herold Joseph	*German Valley, Ill.*	Ch. E.
Kuenzli, Walter Arthur	*Wauwatosa*	Ch. E.
Küstermann, Edgar William	*Milwaukee*	E. E.

Kutzback, Victor Reysen	*Sheboygan Falls*	C. E.
Lamont, Aleck John	*Madison*	M. E.
Langan, Edward Francis	*Kenosha*	M. E.
Larrabee, Ralph Eugene	*Beloit*	E. E.
Lasché, Russell	*Milwaukee*	C. E.
Laun, Fillmore Carl	*Columbus*	M. E.
Lederer, Rudolph	*Milwaukee*	C. E.
Lee, Marshall McLean	*Oak Park, Ill.*	M. E.
Leinfelder, Flavian A.	*La Crosse*	M. E.
Leith, Kenneth	*Madison*	C. E.
Le Veille, Wilfred Donald	*Ladysmith*	Ch. E.
Lewis, Wilbur Vincent	*Leavenworth, Kans.*	E. E.
Lien, Reuben John	*Cambridge*	E. E.
Lilja, Edgar David	*Rockford, Ill.*	E. E.
Lillis, Norman Kenneth	*Rockford, Ill.*	C. E.
Lindbergh, Charles Augustus	*Little Falls, Minn.*	M. E.
Linsangen, Leon Villajuar	*Pontabangan, P. I.*	M. E.
Loftus, Jule Bert	*Tomahawk*	M. E.
Lonergan, George	*Darlington*	E. E.
Lonergan, Roy Hafer	*Milwaukee*	C. E.
Longsdorf, Lisle Leslie	*Arkansaw*	C. E.
Lorig, Clarence Herman	*South Milwaukee*	Min. E.
Lyon, Howard Milo	*New London*	Ch. E.
McCollum, Everett Elmer	*Twin Bluffs*	Min. E.
McCormick, Gerald Thomas	*Conrad, Mont.*	C. E.
McCoy, Julius Mayne	*Waitsburg, Wash.*	C. E.
McCreery, Walter Gay	*Marshalltown, Iowa*	E. E.
McCullough, Herbert David	*Fond du Lac*	C. E.
McElwain, Ralph Windle	*Kenosha*	C. E.
McKee, George Milton, Jr.	*Donnacona, Quebec*	M. E.
McPherson, Hal Weir	*Chicago, Ill.*	E. E.
Macken, Bernard Leo	*Darlington*	Ch. E.
Madell, Frank James	*Oshkosh*	M. E.
Manson, Stewart Horn	*Wausau*	Ch. E.
Manthey, Frank Richard	*Antigo*	E. E.
Markussen, Herbert Clayford	*West Allis*	M. E.
Mason, Warren Alexander	*Milwaukee*	M. E.
Matheson, Donald McGregor	*Elkhorn*	Min. E.
May, Carl William	*Burlington*	E. E.
Mayer, Bertram Lorenz	*S. Kaukauna*	M. E.
Mayer, Herbert Clarence	*Milwaukee*	E. E.
Melcher, Harvey Rockefeller	*Stoughton*	E. E.
Merrill, Robert Allan	*Sparta*	E. E.
Miles, Palmer Henry	*Arkansaw*	E. E.
Millard, Albert D.	*New London*	C. E.
Mollerus, Frederick John	*Milwaukee*	M. E.
Mooney, Fred Elmore	*Oconto*	M. E.
Morris, Francis Walker	*Chicago, Ill.*	Ch. E.
Morrissey, William Leslie	*Elkhorn*	Min. E.
Morrow, Cecil Alfred	*Kenosha*	Ch. E.
Morrow, William John	*Kenosha*	Ch. E.
Morton, John Burnham	*Omro*	E. E.
Muir, Kenneth Lynn	*Arcadia*	C. E.

Mulholland, Clifford Arthur	*St. Louis, Mo.*	M. E.
Myhre, Fred Palmer	*De Forest*	E. E.
Naab, Milton Peter	*West Bend*	E. E.
Nehls, Herold Albert Henry	*Kilbourn*	E. E.
Nelson, Floyd Arthur	*Cashton*	Min. E.
Nelson, Norman Edward	*Beloit*	E. E.
Nelson, Ralph	*Madison*	E. E.
Nethercut, Robert Clifford	*Wauwatosa*	C. E.
Nichol, Paul Alexander	*Madison*	M. E.
Nielson, Fred Alexander	*Pasadena, Cal.*	M. E.
Nimmer, Friedrich William	*Merrill*	E. E.
Norwood, Cornelius Lefeber	*Wauwatosa*	C. E.
Nusser, Ernest Henry	*Park Ridge, Ill.*	M. E.
Ochsner, Walter William	*Lone Rock*	E. E.
Odekirk, Wallace Eugene	*Trempealeau*	C. E.
Odell, Lawrence Henry	*Delavan*	E. E.
Odell, Milford	*Madison*	E. E.
Oehmcke, John Richard	*Milwaukee*	E. E.
Ogden, Stewart Walker	*Geneseo, Ill.*	C. E.
Olson, Charles Alfred	*Madison*	M. E.
Osius, Edgar Frederick	*Plymouth*	E. E.
Otis, Edward Numan	*Madison*	C. E.
Otto, Karl Walter	*Milwaukee*	C. E.
Paetow, Clarence Albert	*Milwaukee*	E. E.
Pagel, Herbert William	*Columbus*	E. E.
Parker, Van Dyke Nathan	*Madison*	E. E.
Pedley, Howard LeRoy	*Kenosha*	E. E.
Perry, Richard Loan	*Amery*	E. E.
Perssion, Sidney	*Milwaukee*	C. E.
Peters, Herbert Hubert	*Pt. Washington*	C. E.
Peterson, George Raymond	*Odanah*	E. E.
Peterson, Sidney Nathaniel	*Stockholm*	M. E.
Pfeifer, Reuben John	*Sheboygan Falls*	C. E.
Pfeifer, Robert Fulton	*Sheboygan*	C. E.
Plautz, Edgar Gottlieb	*Milwaukee*	C. E.
Plettner, Earl Milton	*Algoma*	E. E.
Plewke, Walter Herman	*Avalon*	E. E.
Plummer, Richard Trezona	*Marble, Minn.*	M. E.
Potter, Franklin Carl	*Baraboo*	C. E.
Poull, Leroy Michael	*West Bend*	M. E.
Purcell, Mark Thomas	*Madison*	Ch. E.
Purucker, Ralph Erhardt	*Jefferson*	E. E.
Purvis, Adrian Arthur	*Memphis, Tenn.*	E. E.
Quammen, Delbert Jonathan	*Madison*	M. E.
Quinn, Raymond John	*Madison*	C. E.
Radke, Walter Ludwig	*Owen*	C. E.
Radle, Louis William	*Arkansaw*	E. E.
Rand, Alfred Emil	*Chicago, Ill.*	M. E.
Rasmussen, Albert August	*Dallas, Tex.*	M. E.
Rasmussen, Sholto Gentner	*Dallas, Tex.*	E. E.
Ratcliff, Horace Hussey	*Madison*	E. E.
Reed, George Letchworth	*San Juan, P. I.*	C. E.
Reed, Jacob Thomas	*Watertown*	M. E.

Reed, Ralph Stanley	*Sparta*	E. E.
Reese, David Bayard	*Spring Green*	M. E.
Reinhart, Bruce Fairfax	*Toledo, Ohio*	M. E.
Reinhold, Harold Edward	*Wausau*	M. E.
Reinhold, Max Francis	*Milwaukee*	C. E.
Riera, Juan Bernardo	*San Andrés, Argentine R.*	C. E.
Rifenberg, James Kent	*Oconto Falls*	C. E.
Risteen, Horace William	*Chippewa Falls*	M. E.
Ritchie, William Edward	*Hinsdale, Ill.*	M. E.
Ritz, Clifford Harold	*New London*	C. E.
Roberts, Thomas Gordon	*Milwaukee*	M. E.
Rockwood, Edgar Lysle	*Two Rivers*	E. E.
Roe, John Lieber	*Oshkosh*	M. E.
Rosecky, Joe	*Milwaukee*	M. E.
Rowen, Leo Vivian	*Freeport, Ill.*	M. E.
Safley, Ritchie Phelps	*Tipton, Iowa*	M. E.
Saks, John Stephen	*Milwaukee*	C. E.
Sammond, Robert Saul	*Madison*	E. E.
Sargis, Samson George	*Madison*	M. E.
Sawtelle, Rolfe Bigelow	*Madison*	C. E.
Schaefer, Carl Eugene	*Highland Park, Ill.*	M. E.
Scheuer, Rita	*New York, N. Y.*	Ch. E.
Schmidt, Alex Otto	*Milwaukee*	Ch. E.
Schmidt, Bernard Frank	*Milwaukee*	E. E.
Schmidt, Walter Carl	*Brillion*	E. E.
Schmit, Raymond John	*Port Washington*	M. E.
Schmitt, Kenneth	*Janesville*	E. E.
Schoenknecht, Fred	*Milwaukee*	E. E.
Scholes, Robert Henry	*Endeavor*	E. E.
Schrader, Floyd Franklin	*South Kaukauna*	C. E.
Schudt, Joseph August	*Freeport, Ill.*	C. E.
Schumacher, Charles John	*Johnson Creek*	Min. E.
Schumacker, David Emil	*Milwaukee*	M. E.
Schweers, Harry Edwin	*Shawano*	C. E.
Sellick, John Mayhew	*Berryville*	E. E.
Seybold, Fred Edgar	*Forest Junction*	E. E.
Shepherd, Loren Francis	*Platteville*	Min. E.
Sherman, Murray Wade	*Winnebago*	E. E.
Shockey, Charles Francis	*Green Bay*	E. E.
Shons, Ferral Caldwell	*Freeport, Ill.*	C. E.
Sinclair, David	*Pasadena, Cal.*	Ch. E.
Siren, Edward Rudolf	*Iron Belt*	Min. E.
Skow, Harold	*Racine*	E. E.
Smith, Lester Joseph	*Combined Locks*	M. E.
Sontag, John Arnold	*Wautoma*	C. E.
Spears, Austin Joseph	*Bruce*	E. E.
Sproul, Harold Russell	*Madison*	E. E.
Stadelmann, Otto Robert	*Madison*	M. E.
Steel, Beaumont Andrew	*Milwaukee*	C. E.
Stilp, Stephen Raphael, Jr.	*Niagara Falls, N. Y.*	Ch. E.
Stith, Roy Lee	*Terry, Mont.*	C. E.
Stuart, James Reeve	*Milwaukee*	C. E.
Summers, George Blackman	*Davenport, Iowa*	M. E.

Sumner, Bort Baldwin	*Forest City, Iowa*	M. E.
Sun, Kwan-Faung Henry	*Shanghai, China*	E. E.
Taberman, Roy Alvin	*Washburn*	C. E.
Taft, Merrill Edward	*Whitewater*	E. E.
Tappan, William Hardesty	*Hibbing, Minn.*	C. E.
Taylor, Daniel Gilman	*Madison*	M. E.
Thomas, Everett James	*Ipswich, S. Dak.*	E. E.
Thomas, George Hill	*West Allis*	E. E.
Thornburgh, Bernard Mac	*Okmulgee, Okla.*	Min. E.
Tietjen, William Leiner	*North Milwaukee*	M. E.
Tjoflat, Gerald Benjamin	*Ettrick*	E. E.
Toftoy, Holgar Nelson	*Madison*	M. E.
Tomlinson, George Herman	*Sparta*	E. E.
Towle, John Oliver	*Madison*	M. E.
Towle, Wilbur Trayer	*Madison*	M. E.
Trinary, Horace Ivey	*Platteville*	E. E.
Tucker, Albert Belman	*Wilmette, Ill*	E. E.
Vaclavik, Frank Joseph	*Two Rivers*	E. E.
Van Den Berg, Robert Henry	*Madison*	E. E.
Van Matre, Joseph Merrill	*Darlington*	E. E.
Van Wie, Adelbert Howard	*Racine*	E. E.
Vanderwall, Edward	*Phillips*	C. E.
Vogel, Julius Beecham	*Madison*	C. E.
Wallis, Robert Shephard	*Rochester*	M. E.
Wandschneider, Fritz William	*Ft. Atkinson*	M. E.
Warren, William Bird	*La Grange, Ill.*	Ch. E.
Webb, Floyd M.	*Norwalk*	E. E.
Wehrs, Marquardt William	*Oak Park, Ill.*	M. E.
Weimer, Bernard Arthur	*Arlington Heights, Ill.*	Ch. E.
Welch, John Francis	*Jefferson*	Ch. E.
Weller, Sam	*Mitchell, S. Dak.*	C. E.
Wells, John Pearl	*Lake View, Iowa*	E. E.
Welsh, Stuart Marvin	*Madison*	E. E.
West, Clifford	*Downing*	E. E.
Westerlund, Albert Theodore	*Iron River, Mich.*	E. E.
Whale, Robert Gerald	*Waupaca*	C. E.
Wheeler, John Ambrose	*Madison*	C. E.
White, Frederic Berryhill	*Davenport, Iowa*	C. E.
Whitfield, Robert Hamilton	*Oak Park, Ill.*	Ch. E.
Whitman, Al en Kent	*Kaukauna*	E. E.
Whitten, Robert Clay	*Virginia, Minn.*	M. E.
Wichern, Ernest Albert	*Whittier, Cal.*	E. E.
Wieland, Clarence Sidney	*Milwaukee*	M. E.
Wiley, Richa d Edmund	*Lake City, Minn.*	Min. E.
Williams, John Howard	*Waupun*	E. E.
Williamson, John Alden	*Neenah*	M. E.
Wilmer, Alex	*Honey Creek*	Min. E.
Wilson, Joe Hull	*Madison*	E. E.
Winston, Thomas Mumford	*Highland Park, Ill.*	Ch. E.
Wood, Victor	*Racine*	M. E.
Wrend, Ben	*Madison*	C. E.
Young, Ruby Reginald	*Ft. Atkinson*	M. E.
Youngberg, Harold John	*La Crosse*	C. E.

Zabel, Edwin Frederick	*Bangor*	E. E.
Zastrow, Irwin Elmer	*Portage*	E. E.
Zee, Jones Lehor	*King Ling, China*	Ch. E.

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Adult Specials

Branks, Joseph Orrin	*Janesville*	M. E. Junior
Brinkman, Edward McKinley	*Madison*	M. E. Freshman
Bellew, Edgar Thomas	*Appleton*	Ch. E. Freshman
Dawson, James T.	*Beloit*	C. E. Sophomore
Fensel, Alden Charles	*Milwaukee*	C. E. Sophomore
Flatman, George James	*Madison*	E. E. Senior
Gillen, Eugene Owen	*Madison*	Min. E. Freshman
Hance, Willard Bell	*Angus*	M. E. Freshman
Holm, Clarence Carlyle	*Racine*	M. E. Freshman
Huegel, Arthur John	*Milwaukee*	Ch. E. Junior
Johnson, Arthur Edward	*Superior*	E. E. Freshman
Luening, Robert Louis	*Oconomoc*	Ch. E. Sophomore
Morgan, Robert Frank	*Madison*	C. E. Sophomore
Michael, John Hadji	*Neenah*	E. E. Freshman
Purdy, Corydon Phillips	*Monroe, N. Y.*	E. E. Freshman
Roller, August Frank	*Sun Prairie*	E. E. Freshman
Schostak, Abraham William	*Milwaukee*	E. E. Sophomore
White, Emil	*Racine*	C. E. Sophomore

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LAW SCHOOL

Third Year

Bradford, Alfred Stevens	*Appleton*
Buelow, Earl Francis, B.A.	*Waupun*
Burmeister, Roy Frederick, B.A	*Gratiot*
Curran, Robert Emmet	*Berlin*
Dean, Harry Carpenter	*Madison*
Dinkwitz, Oscar	*Marinette*
Duncan, Francis Willard	*Green Bay*
Eberlein, Arthur Herman	*Madison*
Foley, Leon Francis	*Wisconsin Rapids*
Foss, Arthur Rolf	*Onalaska*
Genrich, Fred William	*Wausau*
Gilbertson, Victor Gilbert	*Eau Claire*
Kloetzner, Ottomar	*Milwaukee*
Knudson, Clarence Hannibal	*Madison*
Lucas, Spencer Alexander	*Sparta*
Luecker, Elmer William	*Brillion*
McFetridge, George William, B.A.	*Clam Falls*
Perry, Donald Moore	*Black River Falls*
Peterson, James Dahle, B.A.	*Minneapolis, Minn.*
Rogers, Alfred Moore, B.A.	*Chicago, Ill.*
Rosenberg, Edwin Louis	*Milwaukee*
Rosenblum, Harry Maurice	*Terre Haute, Ind.*
Salen, Herman Roy	*Waukesha*
Schlaboch, Rudolph M., B.S.	*La Crosse*

Smith, Herbert Herald	*Milwaukee*
Soderberg, Clarence Edward	*Barron*
Sutherland, Robert James	*Madison*
Thieme, Cyrus Charles, B.A.	*South Milwaukee*
Trottman, Joseph Stafford, B.A.	*Milwaukee*
Walker, Dorothy	*Columbus*
Waller, Theodore Adolph	*Spring Valley*
Warner, John Clement, B.S.	*Madison*
White, Kenneth Sidney	*River Falls*
Wurster, Carlyle Barton	*Mazomanie*

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Second Year

Baird, Austin Jay, B.A.	*Waukesha*
Beckwith, David Van Walker	*Perrington*
Bernard, John	*Superior*
Boardman, Newell Stephen, B.A.	*New Richmond*
Cadigan, Charles Patrick	*Superior*
Charlton, Ruth	*Milwaukee*
Crocker, Calvin Otis	*Wausau*
Dornbrook, Percy Fred	*Menasha*
Dunn, Lawrence B.	*Appleton*
Egan, Timothy Frank	*Harley*
Ells, Robert Borden	*Rockford, Ill.*
Fox, Harry Sigmund	*Janesville*
Hall, Lawrence Waterbury, B.A.	*Madison*
Hansen, Lambert A.	*Cashton*
Hanson, Harold Eugene	*Madison*
Hoyer, Edward Ludwig	*Madison*
Hyzer, Leland l s	*Janesville*
Immell, Ralph Maxwell	*Blair*
Jenks, Walter Thomas	*Platteville*
Kearns, Edward Peter, B.A.	*Madison*
Keller, Gustave Joseph	*Appleton*
King, Marvin Stephen, B.A.	*Arena*
La Follette, Philip Fox, B.A.	*Madison*
Lennon, George William	*Portage*
Loverud, Alvin Matthew, B.A.	*Stoughton*
Lowry, Howard James	*Colfax*
McCann, Ray Thomas, B.A.	*Edgerton*
Morsell, Curtis Benedict	*Milwaukee*
Murphey, Newton Samuel	*Wauwatosa*
Nesbitt, John Leonard	*Oxford*
Newton, Orin Isaac	*Sparta*
Noer, Harold Rolf, B. A.	*Wabeno*
O'Laughlin, John Richard	*Madison*
Peterson, Carl Edwin, B.A.	*Menomonie*
Pollard, Seth Whitely	*Lannon*
Potter, Ellis David, B.A.	*Madison*
Rasmussen, Vilas Lenor, B.A.	*Ixonia*
Reid, Everis Hayes	*Hurley*
Roberts, Glenn D.	*Sparta*
Rohr, Charles Davis, B.A.	*Burlington*

Ryan, Stanley Martin	*Janesville*
Smalley, Gwynette Ellsworth, B.A.	*Cuba City*
Smith, Harold Clare	*Jefferson*
Spengler, Silas Llewellyn, B.A.	*Menasha*
Spohn, George Daniel, B.A.	*Janesville*
Steele, Fred Edward	*Melvina*
Strassberger, Albert Emanuel, B.A.	*Oshkosh*
Tyrrell, Richard Hanlon	*Lake Geneva*
Van Pelt, Clayton Forrest	*Fond du Lac*
Wehmhoff, Rowland Henry	*Burlington*
Wheeler, Warren Gregg	*Wauwatosa*
Whelan, Allen	*Mondovi*

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First Year

Amlie, Thomas	*Madison*
Augustine, Waldemar H.	*Eau Claire*
Bareis, Charles John	*Platteville*
Barr, Wallace Andre	*Milwaukee*
Beach, Joseph Barnes	*Whitehall*
Blume, Henry Martin	*Milwaukee*
Bonesteel, Wendell	*Huron, S. Dak.*
Bonnin, Chris Henry	*Shawano*
Borgelt, Edward Hubert	*Milwaukee*
Bundy, Egbert Bird	*Eau Claire*
Charney, Sydney Clyde	*Milwaukee*
Cosgrove, Francis William	*Fond du Lac*
Coulson, William Lee	*Madison*
Crocker, Walter Claire	*Spooner*
Daley, Carl Henry	*Superior*
Dandoy, Bert Julius	*Marinette*
Darling, Lorenzo Lyman	*Manawa*
Doll, William De Berge, B.A.	*Milwaukee*
Engelhard, Aloysius John	*La Crosse*
Federer, Leo Joseph	*Waukesha*
Fosgate, Frank Pilling	*Richland Center*
Frogner, Allard	*Weyerhauser*
Gaebler, Hans David	*Watertown*
Garrigan, George Arthur, B.A.	*Beloit*
Grady, Emory Lester, M.C.S.	*Watertown*
Greco, Charles	*Madison*
Hahn, Wallace Herbert	*Milwaukee*
Hart, Lawrence Eugene	*Mauston*
Heft, Carroll Rahn	*Racine*
Hopkins, Joseph Jackson	*Milwaukee*
Hughes, Clarence Joseph	*Superior*
Johnson, Guy Arthur, B.A.	*Suring*
Krebs, George John	*Ft. Atkinson*
Lathrop, William	*Rockford, Ill.*
Martineau, John Baptiste	*Oshkosh*
Mathys, Clifford George, B.A.	*Madison*
Matzen, Herbert James	*Milwaukee*
Monk, Floyd J.	*Neillsville*

Nelson, Frederick Washington, B.A.	*Racine*
Neubauer, Harold Raymond	*Madison*
Oakey, Henry Cooper	*Osceola*
Paul, Harold Henry	*Milwaukee*
Paulsen, Martin	*Stevens Point*
Pett, Ernest Herman, B.A.	*Johnson Creek*
Powers, Patrick Gerald, Ph.B.	*Mauston*
Reynolds, Thomas Arthur	*Madison*
Roberts, Arthur Owen	*Superior*
Roswell, Herbert Solverson	*Oconomowoc*
Rudy, Paul Passmore	*Chicago, Ill.*
Scheinfeld, Aaron	*Milwaukee*
Schenk, Edward William	*Shawano*
Torphy, Michael Byron	*Milwaukee*
Towell, Arthur	*Milwaukee*
Weisse, Lester Charles	*Sheboygan Falls*
Wiley, Robert Le Roy	*Chippewa Falls*
Williams, Walter Arthur	*Appleton*
Zielsky, Frederick Adelbert	*South Shore, S. Dak.*

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Law Specials

Barrett, Albert Charles	*Chippewa Falls*	Second Year
Fisher, Walter S.	*Minocqua*	Second Year
Gilbertson, Robert Leonard	*Eau Claire*	First Year
Greenwood, Claude	*Green Bay*	Second Year
Heney, James Michael	*Green Bay*	First Year
Johnston, Joseph Henry	*Janesville*	Second Year
Langer, Joseph Sylvester	*Kewaunee*	First Year
Mikkelson, Carl Francis	*Arkdale*	Second Year
Molzow, Reinhold	*Beaver Dam*	Second Year
Phillips, Wendell	*Madison*	First Year
Runge, Herman Carl	*Sheboygan*	Second Year
Runge, William Ehardt	*Bristol*	First Year
Schrader, Ernest Joseph	*Hartford*	First Year
Stafford, Harold E.	*Chippewa Falls*	First Year
Taggart, Sturges Phoenix	*Lake Geneva*	Second Year
Thurwachter, Raleigh Holmes	*Ft. Thomas, Ky.*	Third Year
Tollund, Martin G.	*Blue Mounds*	Second Year
Weins, Raymond Herbert	*Racine*	First Year

Students in Letters and Science Electing Law

Aschenbrenner, Stephen Alexander	*West Allis*
Blum, Bruce Marty	*Monroe*
Bohl, Warren Albert	*Brookings, S. Dak.*
Holscher, Herbert Frederick	*McFarland*
Kraege, Fredrick Halsey	*Madison*
Kriewaldt, Martin Rudolph	*Shawano*
Kuehl, Frank William	*Fountain City*
Kuenzli, David Benjamin	*Milwaukee*
Lichtenwalner, Roy P.	*Monroe*
Pleck, Joseph Harold	*Sturgeon Bay*

Randolph, John Binford	*Lafayette, Ind.*
Smith, Paul Samuel, M.A.	*Richmond, Ind.*
Thomson, John Norman	*Centerville, S. Dak.*
Wegener, James Hugo	*Marshfield*
Welsh, Rodney Costello	*Madison*

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COLLEGE OF AGRICULTURE

Long Course

Seniors

Allin, Bushrod Warren	*Cleburne, Tex.*
Anderson, Daniel Alvin	*Chippewa Falls*
Anderson, Lawrence Wortendyke	*Norwalk, Ohio*
Ballantine, George Neal	*Bloomington*
Ballantine, James Rolland	*Bloomington*
Barbo, George William	*Deronda*
Barlass, Robert McFarlane	*Janesville*
Black, Archie	*Ft. Atkinson*
Breuer, Herman Martin s e	*Manitowoc*
Brothers, Wellington	*Evanston, Ill.*
Burg, Oliver Michael s e	*Malone*
Caldwell, Thomas Beverly	*New Orleans, La.*
Carmody, Arthur Michael	*Mt. Hope*
Casis, Pedro Antonio	*Bogota, Columbia, S. A.*
Clapp, George Howard	*Evanston, Ill.*
Clark, Thomas Collier	*Evanston, Ill.*
Cravens, Clarence Chambers	*Madison*
Daane, Edwin Henry	*Sheboygan*
Davidson, Albert James	*River Falls*
Dayton, Willard Louis	*Rhinelander*
Farrington, Edgar George	*Mondovi*
Fix, Alois Ashley	*Madison*
Frost, Russell Elwell	*Madison*
Gates, Philip Wilde	*Madison*
Gerhardt, Oscar Henry	*Neillsville*
Gibson, Percy DeWitt	*Washington, D. C.*
Greenfield, Russell Snow	*Superior*
Hamerski, John Anton	*Plover*
Hanousek, John Joseph	*Antigo*
Hansen, Lars Christian	*Amery*
Hardell, Robert Edwin	*Washington, D. C.*
Hayes, William Platt	*Asheville, N. C.*
Heal, Garold William	*Marshfield*
Helgren, Fred Joseph s e	*Florence*
Helwig, Karl Lyle	*Danbury*
Hembre, Helmer John s e	*Greenwood*
Hewett, Walter William	*Arlington, S. Dak.*
Hipke, Gilbert Jacob	*New Holstein*
Hoard, William Dempster, Jr.	*Fort Atkinson*

s e, Registered in the School of Education.

Hoppe, Paul Erich	*Platteville*
Horn, Charles Alfred	*Stevens Point*
Hovde, Harold Arthur s e	*Washburn*
Howison, William Kelsey	*Menomonie*
Hughes, Idrys Oralead	*Platteville*
Icks, Karl Rudolph	*Green Bay*
Jacka, Warren Stanway	*Mineral Point*
Jackson, Lyman Edson s e	*Madison*
Jennett, Clarence Bernard	*Streator, Ill.*
Julian, Dalven	*Mineral Point*
Kayser, Paul Adolph	*Madison*
Knoll, Roy Phil	*South Milwaukee*
Koch, John William	*Milwaukee*
Koehler, Walter Bernard Paul	*Menomonee Falls*
Krueger, Wabun Clarence	*Sawyer*
Kubier, Julius Edwin s e	*Madison*
Lacey, David Robert	*Madison*
Lade, Arthur William	*Campbellsport*
Lampman, Clifford Elmer	*Arena*
La Pine, Lewis James	*Oshkosh*
Leaper, Vern Clayton	*Green Bay*
Lindberg, Clifford Harvey	*Soperton*
Logie, James Milner	*Wilmette, Ill.*
Luther, Melvin Eddy s e	*Madison*
McGovran, Thomas Harris	*Charleston, W. Va.*
McIllroy, Glen Wilson	*Oshkosh*
McKay, Laurence H.	*Hendersonville, N. C.*
McMahon, Abraham Lincoln	*Madison*
Malloy, Edward John	*Madison*
Marshall, Gilbert Cottrell	*Belvidere, Ill.*
Martin, George W.	*Madison*
Math ws, Edward Washington	*Wheeling, W. Va.*
Miller, Emil Alfred	*Superior*
Milum, Vern G.	*Viola*
Mitchell, William Kenneth	*Lake Beulah*
Mobley, Basil	*Derwood, Md.*
Moore, Robert Lyman	*Humbird*
Murphy, Lawrence Edwin	*Delavan*
Neelen, Robert B.	*Milwaukee*
Newman, George Ingham	*Chicago, Ill.*
Norgaard, Uffe Jensen	*Madison*
O'Connell, Francis Joseph	*Montello*
Omernik, John Thomas	*Spooner*
Pallett, Earl Manley	*Fennimore*
Peterson, Alvin S.	*Scandinavia*
Pierre, William Henry	*Brussels*
Pinney, John James	*Sturgeon Bay*
Post, William Jobse	*Milwaukee*
Preston, Nathaniel Gifford	*Brodhead*
Pusey, Ernest Nuckols	*Bartles, Ky.*
Reynolds, Donald Wagener	*Sturgeon Bay*
Rieck, Chester Emil	*Chicago, Ill.*
Robinson, Carl Louis	*Manning, N. Dak.*

Roehm, Linus Theodore	*Ashland*
Rummel, Walter John s e	*Rome*
Runkel, Clay Orson	*Madison*
Sato, Atsushi	*Miyagiken, Japan*
Schaenzer, Joseph Peter	*Wabeno*
Schmidt, George Albert	*Arcadia*
Slocum, Burl Alva	*Eau Claire*
Smith, Melford Irl	*Fennimore*
Smith, Robert George	*Frankfort, Ind.*
Smith, Urban Ulysses	*Fennimore*
Stauss, Walter Charlie s e	*Thiensville*
Stearns, Russell Benjamin	*Madison*
Stein, Walter Philip	*Milwaukee*
Stewart, John Elden Lee	*West Allis*
Tiedjens, Victor Alphons	*Marinette*
Tinkham, Glenn Dwight s e	*Fairwater*
Toepfer, George Otto	*Madison*
Tompkins, Hazel Myrtle	*Phoenix, Ariz.*
Travis, Robert Henry s e	*Chicago, Ill.*
Vanderhoof, Harold Alexander	*Knapp*
Vaughn, Stanley Thomas	*Westfield*
Voskuil, Walter Henry	*Oostburg*
Walsh, Charles Earl	*Madison*
Wenstadt, Julius Louis	*Shawano*
White, Cecil Everett	*Beaver Dam*
Williams, Arthur Raymond s e	*Wild Rose*
Wolf, Archie Andrew	*West Salem*
Zaffke, Ben Franklin	*Greenwood*
Zellmer, Robert George	*Oshkosh*

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Juniors

Ash, Elza Glenn	*Harristown, Ill.*
Ahrens, Harvey Gerald	*Two Rivers*
Albertz, Arthur Otto	*Watertown*
Bacchus, Thomas Walley	*Wilmington, Del.*
Baker, Oscar Roland	*St. Croix Falls*
Barclay, S. R. Sloan	*Pittsburgh, Pa.*
Barry, Laurence Griffith	*Oconomowoc*
Bliss, Arthur Mark	*Greeley, Colo.*
Bloecher, William	*Wittenberg*
Boerner, Robert Louis Stevenson	*Port Washington*
Brobst, Merrill Francis	*Mondovi*
Brown, Maurice Austin	*Sturgeon Bay*
Burgos, Carlos Xerez	*Manila, P. I.*
Byrne, Charles David	*Oregon*
Carlson, Theodore Ephraim	*Superior*
Casperson, Helmer Cornelius	*Baldwin*
Chapman, Homer Dwight	*Darlington*
Cleasby, Elwood William	*Eleva*
Dunwiddie, Leon Foster s e	*Delavan*
Ebling, Walter Henry	*Richfield*
Edwards, Harry Lloyd	*Cambria*

Edwards, Max J.	*Belleville*
Engelmann, Victor Emil	*Whatcheer, Iowa*
Goldman, Sam	*Milwaukee*
Gray, Wellsley Dobson	*Madison*
Hammen, Edwin George s e	*Ripon*
Harris, Forest Datus	*Cuba City*
Heebink, Gerald	*Baldwin*
Hickey, Pauline Gerling	*Madison*
Holzbog, Walter Charles	*Wauwatosa*
Horne, Daniel Otto	*Stevens Point*
Hsu, Chen-Chow	*Hongchow, China*
Jacobson, Alvin Myron	*Richland Center*
Jacobson, Jacob R.	*Mondovi*
Jacques, James Theodore	*Neillsville*
Jones, Arthur Lyle	*Madison*
Juday, Dean James	*Rhinelander*
Kaasa, Leonard Jerome	*Merrill*
Katz, Henry Joseph	*Milwaukee*
Kleinheinz, Frank Alexander	*Madison*
Knutson, Arthur Magnus	*Sawyer*
Koch, William Frederick	*West Point, Nebr.*
Kozelka, Adolph William	*Mishicot*
Kozelka, Frank Ludwig	*Mishicot*
Kuehn, Edwin Frederick	*Burnett*
Kuehner, Conrad Louis	*Cedarburg*
Last, John August	*Watertown*
Lindegren, Carl Clarence	*Rhinelander*
Lindow, Carl Warning	*Elkhorn*
Link, Karl Paul Gerhardt	*La Porte, Ind.*
Lippitt, Mirnie Henderson	*San Juan, P. R.*
Long, John Frances	*Westfield*
Lotz, James Aaron	*Cadott*
Lu, Hsieh Chum	*Wusih, China*
Magistad, Oscar Conrad	*Forestville*
Mahorney, Florence Hathaway	*Crawfordsville, Ind.*
Marlow, Henry Alfred	*Beaver Dam*
Matteson, Lynn B.	*Clintonville*
Metcalf, Harold Harris	*Merrill*
Miller, Francis Charles	*La Fayette, Ind.*
Moorhead, Douglas McCord	*Moorheadville, Pa.*
Morris, Josephine Osgood	*Madison*
Munkwitz, Richard Charles	*Edgar*
Opgenorth, Louis Theodore	*Kewaskum*
Pabst, Frederick August	*Oconomowoc*
Pan, Chai Yuan	*Szechuen, China*
Peacock, Benjamin Noyes	*Big Bend*
Petersen, Frank Roy	*Berlin*
Petersen, Ralph Ernst	*Chicago, Ill.*
Portman, Leo James	*Ladysmith*
Price, Edward Ernest	*Mauston*
Rankin, Eugene Joseph	*Green Bay*
Roewekamp, Fred William	*Oshkosh*
Ruff, Clarence Amil	*Gilmanton*

Russell, Eldon Babcock	*Madison*
Schernecker, Edward George	*Madison*
Schimmel, Harold William	*Milwaukee*
Schueler, Milford William	*Fredonia*
Schultz William Walter	*Barron*
Sears, Verlyn Fred	*Neillsville*
Sharp, Manly	*Evansville*
Smith, Edward Magruder	*Chicago, Ill.*
Spear, Byron Hoyt	*Pardeeville*
Splitgerber, Albert Herman	*Watertoo*
Stiles, Hugh Raymond	*Lake Mills*
Sutton, Merritt Leofwin	*Clinton, Iowa*
Taylor, Lewis Walter	*Milwaukee*
Thrall, Kenneth Palmer	*Green Lake*
Tibbitts, John Wilson	*North Bend*
Watson, Eldon Levings	*Poynette*
Weavers, Harvey	*Cedar Grove*
Weinman, Isaac	*New York, N. Y.*
Wells, William Alexander	*River Falls*
Wileden, Arthur Frederick	*Pewaukee*
Wilson, Edward Malcolm	*Bayfield*
Wipperman, Arno Arthur	*Sheboygan*
Woelffer, Elmer August	*Watertown*
Woline, Ernst Wilhelm	*Cumberland*
Woodman, Catherine Tomlinson	*Wilmington, Del.*

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Sophomores

Albert, Willard Benjamin	*Madison*
Allison, Andrew Beardsley	*Durand*
Allison, Harold Arthur	*Durand*
Amborn, Lewis William	*Genoa Junction*
Arbuthnot, George Larkin	*Janesville*
Bibelhausen, Roy Joseph	*Shawano*
Blodgett, Robert Oliver	*St. Paul, Minn.*
Bond, Eugene Howard s e	*Milton*
Bonsack, Clarence Herman	*Onalaska*
Brace, Donald Ochsner	*Lone Rock*
Brown, Herbert Joseph	*Monroe*
Brown, Maynard Wilson	*Great Falls, Mont.*
Byrns, Elmer Dennis	*Madison*
Capel, James Barzella	*Omar, W. Va.*
Cheu, Ned	*Pueblo, Colo.*
Comstock, Gilbert William	*Oshkosh*
Daniels, Thomas Richard	*Weyerhauser*
Dartnell, Thomas Lozier	*East Orange, N. J.*
De Wet, Johannes Daniel	*Cape Town, S. Africa*
Dickson, Allan David	*Madison*
Dohrmann, Herbert Carl	*Mayville*
Ellis, Crawford Roa	*Endeavor*
Ellis, Lippert Spring	*Madison*
Elmslie, Wallace Parker	*Milwaukee*
Elvehjem, Conrad Arnold	*McFarland*

English, Donald John	*Wyocena*
Frederick, William Henry	*Milwaukee*
Fritschel, Roland Godfrey	*Milwaukee*
Gahr, Joseph Abraham	*Madison*
Geilfuss, Harvey William	*Milwaukee*
Glascock, Eleanor Elizabeth	*Upperville, Va.*
Gleiter, Paul Fred Leonard	*Alma*
Hamley, Gordon	*Ripon*
Haney, Merwyn Augustin	*Sparta*
Haskell, John Paul	*Ludington, Mich.*
Huff, Whitford Lynn	*Boscobel*
Jamison, Howard Elmer	*Appleton*
Jaquith, Clifford Le Roy	*Green Lake*
Jenny, Gerald Oscar	*Milwaukee*
Johnson, Gustavus Emil	*Boyceville*
Johnson, Owen Maynard	*Capron, Ill.*
Johnsan, Tracy Worden	*Waupaca*
Jones, Willard Perry	*Black River Falls*
Kellogg, Laurence Otis	*Chicago, Ill.*
Kletzien, Seymour William Frederic	*New Holstein*
Klussendorf, Raymond Clarence	*Milwaukee*
Koenig, Stanley Milton	*Washburn*
Kohn, Frank Joseph	*Hika*
Koss, Lewis August	*Casco*
Langen, Bertram Byron	*Cincinnati, Ohio*
Levitz, Herman Hyman	*Wauwatosa*
McConnell, Kenneth	*Sparta*
McKay, Frank Dowling	*Marinette*
Mack, Lyle	*Ft. Atkinson*
Mallow, Lewis Campbell	*Madison*
Marvin, George Eugene	*West Allis*
Matteson, Roger Pitkin	*Chicago, Ill.*
Mendonca, Ruy Prado	*New York, N. Y.*
Meyer, Werner Paul	*Cedarburg*
Mills, Ashley Vail	*Lake Mills*
Mitchell, Roger David	*Beloit*
Mueller, Walter Josef	*Milwaukee*
Nimlos, Johnson Montgomery	*Madison*
Nisbet, John Cochrane	*Richland Center*
O'Connor, George McGregor	*Hancock*
Oechsner, Rudolph Arthur	*Oakfield*
Oppel, William Wells	*Madison*
Orr, Ray Eugene	*South Wayne*
Pabst, Rudolf	*Oconomowoc*
Parmele, Harris Barnum	*Rockford, Ill.*
Peterson, Lawrence Ralph	*Curtiss*
Pfeiffer, Gilbert Alwyn	*Oshkosh*
Platten, Arthur John	*Hortonville*
Pribyl, George John	*Stangelville*
Reeve, Edwin Allworth	*Western Springs, Ill.*
Reget, Walter John	*La Crosse*
Rewey, Oliver Wendell	*Rewey*
Rogers, Carl Ransom	*Lisle, Ill.*

Rogers, Howard Everett	*Hager City*
Sayre, Kenneth James	*Edgerton*
Sayre, Kitchell Phelps	*Edgerton*
Schilling, George Silas	*Madison*
Schultz, Walter Edward	*Milwaukee*
Speed, Harold Scott	*Baltimore, Md.*
Sprague, Ralph Jennings	*Eagle*
Stinchfield, Roswell Herrick	*Waupaca*
Stokstad, Olaf Lawrence	*Edgerton*
Stream, John Joseph	*Chicago, Ill.*
Strommen, Jorgen Arthur	*Cambridge*
Stueber, Julius John	*Juneau*
Sykes, Robert Hart	*Milwaukee*
Taylor, Lloyd Raymond	*Rhinelander*
Templin, Edward Henry	*Baraboo*
Thomas, Robert Cole	*Oak Park, Ill.*
Tolman, Bronson Dick	*Belfry, Mont.*
Van der Riet, Clement Mervyn	*Stellenbosch, South Africa*
Volk, Norman James	*Oconto Falls*
Voltz, Phillip William	*Madison*
Wade, Gerald Charles	*Wauwatosa*
Weber, Guido Leo	*Algoma*
Weed, Alfred	*Chicago, Ill.*
Wells, David Cyrus	*Fontana*
Wisnicky, Walter	*Madison*
Wolfe, Sheldon Redlin	*Madison*
Young, Vilas Devald	*Galesville*

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Freshmen

Bell, Phillip John	*Humbird*
Berkman, Charlotte	*Yonkers, N. Y.*
Biddick, Eugene	*Livingston*
Blahnik, Albert Roy	*Algoma*
Boehland, Robert Remington	*Rockford, Ill.*
Boughton, Elmer Chris	*Ashland*
Brown, Harold Alexander	*Pittsburg, Pa.*
Butler, Richard	*Horicon*
Callenbach, Ernest William	*Virginia Beach, Va.*
Carter, Robert McCrellis, Jr.	*Fond du Lac*
Castner, Russell	*Loyal*
Christersen, Norman Harold	*Racine*
Clark, Farnham	*Menomonie*
Conrad, Christian Henry	*Onalaska*
Crook, Jere Lawrence, Jr.	*Jackson, Tenn.*
Dahl, Stanley Gustaf	*Chicago, Ill.*
Davis, Erwin Frederic	*Rockford, Ill.*
Dennerlein, Arno Alfred	*Plymouth*
Derthick, Harold Guy	*Angleton, Tex.*
DeVries, Arnold John	*Lake Geneva*
Doyon, Bertrand Herrick	*Madison*
Dyer, Andrew John	*Madison*
Erdman, Herbert Herman	*Algoma*

Exley, Morris Mark	*Menasha*
Fladoes, John Alvin	*Menomonie*
Gales, Thomas William, Jr.	*Appleton*
Goldman, Milton	*Milwaukee*
Gregor, George Valentine	*Algoma*
Gunderson, Frank Lester	*Oconomowoc*
Hastings, Barbara	*Atchison, Kans.*
Hayes, Birchard Peatt	*Ashville, N. C.*
Heal, Byron Franklin	*Marshfield*
Hill, Evan Victor	*La Farge*
Iverson, Clarence Frederick	*Kenosha*
Jenison, Ray Charles	*Davenport, Iowa*
Johnson, Alden Leslie	*South Wayne*
Jones, Ellsworth Owen	*Cambria*
Keenan, Sidney Fox	*Fond du Lac*
Klare, Richard Henry	*Madison*
Lathrope, Howard Roswell	*Wauzeka*
Link, Walter Karl	*La Porte, Ind.*
Longenecker, William George	*Neillsville*
MacAvinche, William Roberts	*Chicago, Ill.*
McGrath, Alphonse Elmer	*Highland*
Matteson, Stephen Halsey	*Chicago, Ill.*
Mellor, Milton Edward	*Madison*
Mielke, Elmer Henry	*Brillion*
Mohr, Charles Alan	*Madison*
Morson, Terrill Frederick	*Antigo*
Murphy, Harold Edward	*Delavan*
Oertel, Everett	*Prairie du Sac*
Olson, Victor J.	*Blanchardville*
Pederson, Carl	*Tunnell City*
Perky, James Barney	*Oklahoma City, Okla.*
Polivka, Joseph Bernard, Jr.	*Grand Marsh*
Price, Ferdinand Theodore	*Marathon*
Rapalje, Robert Roy	*Pueblo, Colo.*
Reeves, George Mathie	*Leavenworth, Kans.*
Renk, Walter Frank	*Sun Prairie*
Roberts, Edward John	*Cambria*
Roberts, John Colin	*West Bend*
Rodolfo, Augustin	*San Antonio, P. I.*
Rohrbeck, Edwin Herman	*Cambria*
Rumage, Freeman William	*Brodhead*
Salter, Theodore Roosevelt	*Unity*
Schaars, Marvin Arnold	*Merrill*
Schnelling, Milton Eric	*Pleasant Prairie*
Skolash, Marcus	*Madison*
Smith, Hugo Genin	*Madison*
Smith, Thomas Dean	*Menomonie*
Stevens, Theodore	*Viroqua*
Tenpas, Reuben John	*Hingham*
Tiglao, Simplicio Agapito	*Mabalacat, Pampange, P. I.*
Valine, Godfrey Wilhelm	*Pepin*
Vanderrest, Walter Louis	*Casco*
Vandrell, Earl Felix	*Green Bay*

Wackman, Ralph Bruce	*Brooklyn*
Wahle, Le Roy Louis	*Davenport, Iowa*
Wallrich, Marshall John	*Shawano*
Wentworth, William Norris	*Fort Atkinson*
Wetmore, Horace Orton	*Chicago, Ill.*
Weyker, Clement Joseph	*Dousman*
Williams, Richard Everard	*Washington, D. C.*
Young, Ralph Edward	*Galesville*

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Middle Course

Second Year

Amundson, George	*Rio*
Austin, Arthur Edwin	*Lancaster*
Austin, Roger Russell	*Lancaster*
Baldwin, Harold Carlyle	*Green Lake*
Bates, Willard Herald	*Wyocena*
Bean, Walter David	*De Soto*
Behm, Carl August	*Princeton*
Boe, Amos s e	*Greenwood*
Bollinger, John Romeo	*Cochrane*
Bollinger, Paul E.	*Sharon*
Browne, Edward Leland	*Waupaca*
Burgess, Ernest Clarence	*Winnetka, Ill.*
Carlin, Fisk Weld	*Palmyra*
Crosby, George Sumner	*Hampton, Va.*
Gibson, Edward Harold	*Ft. Dodge, Iowa*
Goodrich, Charles Victor	*Lone Rock*
Heller, Leonard Herbert	*Excelsior, Minn.*
Honaas, Alf	*Elk Mound*
Hubin, Walter Hugo s e	*Shell Lake*
Jones, David Caradoc	*Cambria*
Jones, Lawrence Eaton	*Black River Falls*
Kraft, Timothy Heller	*Towanda, Ill.*
Kull, Adelbert Clarence	*Lake Geneva*
Legrid, Lester Ira	*Deer Park*
Lewis, John W.	*Dodgeville*
Lindow, Edmund Philipp	*Plymouth*
Livingston, Kenneth Edward s e	*Livingston*
Lupton, Fredric Grant	*Hartford City, Ind.*
McConnell, Clark	*Oshkosh*
McCoy, Robert Charles	*Sparta*
McGill, Charles Alexander	*Templeton*
Martin, Gerald James	*Aurora, Ill.*
Mero, Sanford G.	*Livingston*
Mueller, Armand Erwin	*Milwaukee*
Omdalen, Perry Thomas	*Rice Lake*
Peacock, Carson Ellis	*Fennimore*
Pratt, Orman Henry	*Waterloo*
Ruchti, Werner Fritz Otto	*Madison*
Ruedy, John Mul	*Bangor*
Sagen, Harry Edvin s e	*Washburn*

Shogren, Cyril Kirk	*Bayfield*
Skaife, Charles William	*Livingston*
Smith, Charles Marion	*Macon, Ga.*
Stranahan, Benjamin Farrand	*Fort Benton, Mont.*
Ternes, Albert Marcellus s e	*Ridgeway*
Viste, Melvin C.	*Sawyer*
Wachlin, Frank Emil s e	*Wonewoc*
Weber, Clarence Walker	*Sturgeon Bay*
Whitson, Kenneth Fitch	*Madison*
Wright, Walter K.	*Doylestown*
Yates, James Edward	*Huntley, Va.*

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First Year

Alderton, Felix Wilford	*Loana*
Amory, Thomas Chase	*Walpole, N. H.*
Anderson, Victor Myllar	*Sheboygan*
Baldwin, Howard Eugene	*Beloit*
Barrington, Gerald Sumner	*Waupaca*
Becker, John George	*Hurley*
Benedict, Nathan Spencer	*Darlington*
Bueno, Fabio Cunha	*Pyulo, Brazil*
Bunce, Ellsworth William	*Milwaukee*
Chapman, Jay William	*South Wayne*
Clements, Harry Francis	*Coon Valley*
Clift, Delbert Laal	*Viola*
Colby, Harold Leslie	*Madison*
Cole, Lawrence Charles	*Marshall*
Craig, John Emerson	*Oconomowoc*
Crane, Charles Percy	*Oskhosh*
Culbertson, Eldred Small	*Seymour*
Curtiss, George Brooks	*Arkansaw*
Finley, William Clarke	*Janesville*
Flueck, Herbert Allen	*La Crosse*
Freeman, Phillip Drew	*Hinsdale, Ill.*
Guild, Willis Taylor	*Jackson, Miss.*
Hagen, Arthur Enoch	*Mauston*
Hall, Frederick Leonard	*St. Louis, Mo.*
Hesselberg, Robert	*Christiania, Norway*
Higgins, William Jerome	*Waterloo*
Kazmierszak, Victor Charles	*Loana*
Kilpatrick, Robert A.	*Belmont*
Knox, Vernon Nagel	*Seymour*
Kolb, Carl Arthur	*Berlin*
Krause, Edward Herman	*Hales Corners*
MacKinney, Wallace Everson	*Eau Claire*
Miller, Perry Marquette	*Waupaca*
Moncrief, Adiel Edwin	*Atlanta, Ga.*
Muller, Joseph Perry	*Rockford, Ill.*
Murwin, Herbert Franklin	*Edgerton*
Neilson, William Davis	*Milwaukee*
Osbun, Charles Emmett	*Redlands, Cal.*
Ouradink, George Stanley	*Kewaunee*

Outhouse, Eugenia Agnes	*Madison*
Peterson, Du Wayne John	*Dodgeville*
Reichmann, James Philip	*Wilmette, Ill.*
Reinhold, John Gunther	*Stanley*
Rott, Carl Albert	*Wonewoc*
Scarseth, George Dewey	*Galesville*
Sherman, Emery Alfred	*Seymour*
Smith, Earl Floyd	*Gotham*
Sprague, Ernest Stuart	*Vermontville, Mich.*
Stewart, Heyltje	*Philadelphia, Pa.*
von Szeliski, Francis Paul	*Madison*
Thompson, Joseph Raymond	*Madison*
Trumbower, Irwin Royse	*Shell Lake*
Vander Merwe, Ferdinand	*Patchaptroona, S. Africa*
Viste, Oscar Ingwald	*Sawyer*
Webb, Floyd Albert	*Sumner, Iowa*
Webb, George William	*Poynette*
Webb, Rolland Blair	*Poynette*
Whitefield, Julia Sprague	*Evanston, Ill.*
Wightman, Warren U.	*Lyndon*

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COURSES IN HOME ECONOMICS

Seniors

Allison, Mabel Evelyn	*Cleveland, Ohio*
Baldwin, Marian Edith s e	*Lena, Ill.*
Bemis, Grace Mariette s e	*Antigo*
Bierbauer, Lilian Elsa s e	*Mankato, Minn.*
Bird, Mary Rebecca s e	*Madison*
Bruhnke, Beatrice Bernice s e	*Milwaukee*
Burke, Esther Marie	*Wesley, Iowa*
Cappon, Christene H. s e	*Holland, Mich.*
Carr, Frances Elizabeth s e	*Grand Rapids, Mich.*
Chambers, Margaret Jane s e	*Steubenville, Ohio*
Chappell, Alice Myrl s e	*Trempealeau*
Chichester, Mildred Elizabeth s e	*Great Falls, Mont.*
Cragwall, Sarah Elizabeth	*Crawfordsville, Ind.*
Dietz, Dorothy Louise s e	*Chicago, Ill.*
Farnam, Mary	*La Crosse*
Foote, Josephine Agnes	*Hartford*
Forrest, Nellie s e	*Poynette*
Frazee, Lillian Mildred	*Minocqua, Ill.*
Gildehaus, Ethel Marie	*St. Louis, Mo.*
Goessling, Evelyn Viola	*St. Louis, Mo.*
Huffman, Edna Louise s e	*Richland Center*
Johnston, Ola Esther	*Paducah, Ky.*
Jones, Dorothy s e	*Black River Falls*
Kopietz, Teresa Marie	*Omaha, Nebr.*
Kowalke, Gertrude Roth s e	*Sheboygan*
Krieger, Violet Evelyn s e	*Glenwood, Minn.*
Lees, Katherine Elna s e	*Milwaukee*
Leitzell, Kathryn Rebecca s e	*Benton*

Ligare, Elizabeth Frances s e	*River Forest, Ill.*
Loomer, Gretchen Lana s e	*Delavan*
Macfadden, Louise Margaret	*Fargo, N. Dak.*
Marty, Louise Margaretta s e	*Brodhead*
Mereness, Alice Hazel s e	*Madison*
Metz, Marie Antonette s e	*Madison*
Murray, Helen Hyacintha s e	*Madison*
Pearson, Helen Elizabeth s e	*Bloomington*
Robertson, Esther Mildred s e	*Horicon*
Russell, Mary Vangel s e	*Madison*
Ryan, Catherine Elizabeth	*Fort Dodge, Iowa*
Scofield, Harriet Louise s e	*La Crosse*
Seeber, Vivien Adelaide s e	*Houghton, Mich.*
Sell, Elsie Josephine s e	*Madison*
Shearer, Mary Josephine	*Winfield, Iowa*
Sherman, Helen Julia s e	*Appleton*
Sichler, Ida Mary	*Alma Center*
Six, Marjorie s e	*Logansport, Ind.*
Smith, Helen s e	*Aurora, Ill.*
Stauffer, Katherine Baldwin	*St. Louis, Mo.*
Strock, Marjorie s e	*Des Moines, Ia.*
Tyler, Vera Vivian s e	*Mellen*
Walker, Annette Louise	*Milton*
Weber, Lenore Elizabeth s e	*Keokuk, Iowa*
Weeks, Christina Mary s e	*Chilton*
Weiss, Minnie s e	*Harbor Springs, Mich.*
Wheelock, Margaret s e	*Wilmette, Ill.*
White, Myrna s e	*Madison*
White, Myrtle Maja s e	*Wauwatosa*
Wilson, Jessie s e	*Burlington*
Yeomans, Louise Clara s e	*Minot, N. Dak.*

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Juniors

Ackley, Florence Davenport	*Beloit*
Alexander, Nelle	*Paris, Mo.*
Ausman, Mary Rosa	*Eau Claire*
Babcock, Elizabeth	*Rock Island, Ill.*
Campbell, Lucille Grace	*Madison*
Cappon, Lavina J.	*Holland, Mich.*
Cartin, Ruth Madeline	*Glen Ellyn, Ill.*
Cheetham, Helen Cowan	*Milwaukee*
Coulson, Ruth Antoinette	*St. Louis, Mo.*
Coyle, Margaret Munson	*Ridgewood, N. J.*
Cretney, Mildred Emily s e	*Madison*
Emmert, Hazel Margaret	*Carter, S. Dak.*
Fauerbach, Edith Gretchen	*Madison*
Flett, A. Louise	*Milbank, S. Dak.*
Heisig, Jennie Olive s e	*Madison*
Hess, Elsie Elizabeth	*Madison*
Hoch, Mildred Lillian	*Huntington, Ind.*
Johnson, Helen Augusta	*Oak Park, Ill.*
Jung, Hildegard Emma	*Sheboygan*

Keenan, Matilda Elizabeth	*Fond du Lac*
Kingsley, Mildred Alma s e	*Chicago, Ill.*
Kinslow, Mary Alice	*Bowling Green, Ky.*
Kroncke, Dorothea	*Madison*
McKamey, Josephine Cay	*Paris, Mo.*
Maag, Viola Anna	*Milwaukee*
Meiselivitz, Gertrude Elizabeth s e	*Kiel*
Mills, Beatrice Porter	*Hazel Green*
Norem, Adell	*Milwaukee*
Oestrich, Lorena Elizabeth	*New London*
O'Leary, Mary Catherine	*Appleton*
Olesen, Alma Carrie	*Highland Park, Ill.*
Palechek, Edna Christina	*Chaseburg*
Parkinson, Caryl McCoy	*Madison*
Pfeifer, Ruth Adaline s e	*Columbus, Kans.*
Ramsey, Margaret	*Burlington*
Raymond, Lois Wasson	*Troy, N. Y.*
Reilly, Margaret Phalen	*Fond du Lac*
Roth, Alma Marie s e	*Fowler, Ind.*
Schlicker, Florence Isabel	*East Chicago, Ind.*
Schmidt, Erna Marie Roslyn	*West Allis*
Schoenfeld, Geneva s e	*Edgerton*
Seaver, Leona Gertrude	*Clinton*
Smiley, Mary	*Madison*
Stack, Frances Clair	*Duluth, Minn.*
Streeter, Dorothy	*Milwaukee*
Taylor, Ardys Marie	*Whitewater*
Thuering, Viola Louise s e	*Milwaukee*
Van Horn, Merle	*New Orleans, La.*
Waffle, Naomi Emily	*Fond du Lac*
Wiepking, Dorothy Whelan	*Madison*
Williams, Margaret Ann	*Bristol*
Winckler, Salome	*Madison*
Wright, Isabel Lucile	*Webster Groves, Mo.*

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Sophomores

Adams, Marjorie Helen	*Oak Park, Ill.*
Baldwin, Mary Cameron	*La Crosse*
Bemm, Gladys Elizabeth	*Milwaukee*
Black, Edith Bernice	*Sioux City, Iowa*
Boucher, Mildred Marie	*Joplin, Mo.*
Bremer, Charlotte Sophia	*Madison*
Brooks, Mildred Louisa	*Sheldon, Iowa*
Bullock, Alice Fairfax	*Madison*
Butler, Margaret	*Berwyn, Ill.*
Byrnes, Elizabeth Irene	*Madison*
Chase, Marjorie Myrtle	*Madison*
*Colburn, Gertrude May	*Glen Flora*
Crane, Edith Lucile	*Burlington*
Crane, Marion Louise	*Williams Bay*

*Two year course for vocational teachers.

Dietrich, Kathleen Sarah	*Pekin, Ill.*
Downie, Mildred Martha	*Madison*
Engelhardt, Verena Altindorf	*Milwaukee*
Giltinon, Margaret Bernadette	*Chicago, Ill.*
Fox, Margaret Dorothea	*Madison*
*Gordon, Harriett McDermott	*Darlington*
Griffery, Bernice	*Janesville*
Hall, Ella Aileen	*Winnipeg, Manitoba*
*Hamilton, Aileen Mendoner s e	*Louisville, Ky.*
Hennecke, Elsbeth	*Milwaukee*
Herman, Vera Dorothea	*St. Louis, Mo.*
Hodgson, Mary Elsie	*Mazomanie*
Hoiby, Cora Margrethe	*Madison*
Horter, Dorothy Frances	*Milwaukee*
Jewell, Eleanor Mary	*Grand Rapids, Mich.*
Johnson, Florence Mary	*East Grand Forks, Minn.*
Keator, Helen Lillian	*Belvidere, Ill.*
*Kersten, Luella Anna	*Hartford*
Klann, Mildred Hazel	*Milwaukee*
Kresge, Violet Agnes	*Granton*
Kuehn, Anita Emma	*Milwaukee*
Lambert, Ella Liner	*Brandon*
Laue, Mayme	*Shumway, Ill.*
*Leitch, Mardelle Janet	*Mendota*
Lingenfelder, Julia Anna	*Norfolk, Nebr.*
Little, Caroline Barnes	*Kalamazoo, Mich.*
McHardy, Margaret Ann	*Hibbing, Minn.*
*Marlewski, Sylvia Vera	*Milwaukee*
Metz, Ethel Helen A.	*Madison*
Miles, Elsie June	*Evansville*
Morton, Jessie	*Webster Grove, Mo.*
Purcell, Mary Elizabeth	*Madison*
Reynolds, Mildred Mae	*Lodi*
Rieck, Mildred Aileen	*Chicago, Ill.*
Saunders, Kathleen Alma	*Madison*
*Schmolze, Dorothy	*Chicago, Ill.*
Sellers, Minnie Leona	*Pipestone, Minn.*
Sherman, Elsie Besley	*Madison*
Slater, Sarah Elizabeth	*Ferryville*
Stevens, Jessie Marian	*Grand Rapids, Mich.*
*Straubel, Minnie Octavia	*Green Bay*
Suess, Henriette Adelaide	*Negaunee, Mich.*
Swancutt, Ruth Elizabeth	*Sioux Falls, S. Dak.*
Thompson, F. Louise	*Madison*
Thompson, Marion Rosetta	*Madison*
Toepfer, Margaret Louise	*Madison*
Van Holten, Dorothy Ruth	*Milwaukee*
Varney, Clara Elsie	*Delavan, Ill.*
White, Helen Virginia	*Madison*
Wismer, Sarah Emma	*Britton, S. Dak.*
Woods, Elizabeth Lisle	*Louisville, Ky.*

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Freshmen

Anderson, Sarah Noami	*Peru, Ind.*
Arndt, Irene Dorothy	*Crandon*
Baldwin, Orrel Tennant	*Evansville*
Ballard, Esther Constance	*Milwaukee*
Bartle, Vernette Trenbeth	*Madison*
Black, Ina Mabel	*Walnut, Ill.*
Bodenstein, Pauline Gustorf	*Madison*
Bowen, Kathryn Isabella	*Huntington, Ind.*
Breyer, Ruth Philena	*Waupun*
Brown, Mabel Ruth	*La Grange, Ill.*
Brunsell, Florence Louella	*Evansville*
Bruss, Helen Ida	*Lancaster*
Burkman, Ruth Bessie	*Roscoe, Ill.*
Chandler, Caryl Loreen L.	*Madison*
Clark, Margaret Campbell Findlay	*Oak Park, Ill.*
Clement, Irene Olive	*Marinette*
Coe, Margery	*Iron River, Mich.*
Coe, Ora Elizabeth	*Barron*
Crane, Jeannette Morse	*Chicago, Ill.*
Dickinson, Pauline Dorothy	*Edgerton*
Duncan, Marian Logan	*Mercer, Pa.*
Ehlert, Lucile Margaret	*Hillsboro*
Faris, Nina Charlotte	*Danville, Ill.*
Farnam, Helena Elizabeth	*Flint, Mich.*
Gefke, Edna Maria	*Madison*
Goddard, Hazel Mary	*Madison*
Gotcher, Nina Lois	*Chicago, Ill.*
Grams, Carrie Emilie	*Watertown*
Gregg, Jennie Emily	*Madison*
Gregg, Marion Arlene	*Madison*
Hamilton, Grace	*Berlin*
Hicks, Genevieve	*Madison*
Hodgson, Ruth Elsie	*Mazomanie*
Hollingsworth, Martha Frances	*Sheboygan*
Huffman, Helen Fay	*Richland Center*
Hutton, Miriam Alice	*Richmond, Ind.*
Jeffrey, Lorene Eleanor	*Hancock, Mich.*
Johnson, Priscilla	*Milwaukee*
Jones, Ruth Eleanor	*Racine*
Klenert, Florence Suzanne	*Portage*
Knilans, Nelle Winnifred	*Fort Atkinson*
Knott, Elizabeth May	*Antigo*
Kusta, Anna	*Two Rivers*
McConnell, Edith	*Chicago, Ill.*
McKinley, Eloise Ida s e	*Madison*
Mahar, Gladys Kathryn	*Hartford*
Matteson, Eleanor Hawthorne	*Clintonville*
Maynard, Elizabeth Remma	*Sheboygan*
Meiselwitz, Elvera Adelgunde	*Kiel*
Mellor, Edis Anita	*Madison*
Merkel, Eunice	*Hattlesburg, Miss.*

Milum, Vera Ellen	*Viola*
Mink, Ruth Eleanor	*Lancaster*
Mitchell, Anna Frances	*Carbondale, Ill.*
Molstad, Emma Delia	*Galesville*
O'Connor, Annetta Mary	*Hartford*
Osthoff, Lois Therese	*Madison*
Pilcher, Grace Wendover	*Louisville, Ky.*
Raisbeck, Agatha Ruth	*Madison*
Rathbun, Wilma Clara	*Madison*
Rogers, Helen Elberta	*Oak Park, Ill.*
Rüsing, Blanche Marie	*Madison*
Russell, Mary Katharine	*Elkhart, Ind.*
Scanlon, Irene Charlotte	*Kentwood, La.*
Shannon, Marie Dorothy	*Racine*
Simmons, Marjorie Esther	*Cedar Rapids, Iowa*
Smith, Doris Graham	*Madison*
Stangel, Viola Ann	*Manitowoc*
Stetson, Ruth Lucile	*Lake Mills*
Stevens, Gertrude Elizabeth	*Chicago, Ill.*
Stevenson, Ina Margaret	*Winnebago, Minn.*
Suess, Elizabeth J.	*Madison*
Sundby, Marie Thone	*Stoughton*
Topp, Margo Elizabeth	*Columbus*
Trumbull, Faith Carolynn	*Racine*
Truog, Hellen Ainsworth	*Youngstown, Ohio*
Tyler, Lillian Ruth	*Hurley*
Warnes, Muriel Mae	*Chicago, Ill.*
Williams, Margaret E.	*Rewey*
Winkelman, Helen Dorothy	*Omaha, Nebr.*
Wright, Adaline Victoria	*Chicago, Ill.*
Young, Hazel Elizabeth	*Galesville*

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Adult Specials

Long Course

Dillon, Fred Griffin	*Mondovi*	Sophomore
Hartman, William Albert	*Wauwatosa*	Sophomore
Hesse, Robert Louis	*Hartland*	Sophomore
Hrudka, Ladimir Milos	*Manitowoc*	Sophomore
Kanitz, Raymond William	*Milwaukee*	Freshman
Maldaner, Theodore	*Watertown*	Sophomore
Maxwell, William McDonald	*Milwaukee*	Freshman
Nelson, August	*Madison*	Senior
Paxton, Joseph Francis	*Milwaukee*	Freshman
Pearson, Frank William	*Mooreland, Ind.*	Freshman
Pelner, Joseph Edward	*Kewaunee*	Freshman
Sery, George Raymond	*Milwaukee*	Freshman
Steadman, Ralph A.	*Madison*	Freshman
Tollefson, John McKinley	*Madison*	Freshman
Wieland, Erwin Otto	*Madison*	Freshman

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Middle Course

Anker, Fritz	*Fredrikshald, Norway*	First Year
Banks, Robert Lenox	*Superior*	Second Year
Dyson, Fred Eckhart	*Viroqua*	First Year
Farr, Lloyd Albert	*Greeley, Colo.*	Second Year
Hopkins, Arthur Main	*Oak Park, Ill.*	Second Year
Murdock, John Lorrain	*Sault Ste Marie, Mich.*	First Year
Rockwell, Leslie Howard	*Madison*	First Year
Rowland, William	*New Brunswick, N. J.*	First Year
Shier, Harold Bernard	*Pulaski*	Second Year
Sloniker, Edward Custer	*Wonewoc*	First Year
Wicker, Harold Eugene	*Stratford*	First Year
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Home Economics

Detwiler, Ruby Ellen	*Mankato, Kans.*	Freshman
Keller, Sophia Dorothea	*Milwaukee*	Junior
Opalka, Stella Montana	*Columbia Falls, Mont.*	Freshman
Schmidt, Leone Pulcheria	*Forestville*	Freshman
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WISCONSIN LIBRARY SCHOOL

Becker, Gertrude F.	*Waterloo, Ia.*	
Björlykke, Borghild J.	*Aas, Norway*	
Brennan, Agnes M.	*Madison*	
Chamberlin, C. Louise	*Fort Atkinson*	
Demmler, Meta M.	*Eau Claire*	
Dickerson, Mae H.	*Oak Park, Ill.*	
Friedman, E. Esther	*Hibbing, Minn.*	
Haxby, Anne C.	*Fargo, N. Dak.*	
Haye, Blanche M.	*Byron, Ill.*	
Holmes, Mary A.	*Geneva, Minn.*	
Hoxie, Lucy B.	*Edmeston, N. Y.*	
Ingling, Lois M.	*Kalamazoo, Mich.*	
Johnson, Edna B.	*Connersville, Ind.*	
Logan, Jessie E.	*Sullivan, Ill.*	
Longden, Ruth A.	*Kalamazoo, Mich.*	
McCulloch, Lynette L.	*Marshfield*	
McLeish, Margaret A.	*Evansville, Ind.*	
Peters, Marie A.	*La Crosse*	
Pine, Elsie	*Hepler, Kans.*	
Rasmussen, Hazel R.	*Madison*	
Robertson, Anne M.	*Milwaukee*	
Scribner, Nathalie H.	*Adams*	
Seim, Gertrude A.	*Blue Island, Ill.*	
Senne, Gertrude M.	*Kenosha*	
Williams, Grace C.	*Cloquet, Minn.*	
Witwen, E. Suzanne	*Baraboo*	—26

Joint Course

Huhn, Natalie T.	*Oshkosh*	
Morehouse, Lillian M.	*Elkhart, Ind.*	
Quinlan, Margaret A.	*Antigo*	—3

Students Receiving Training Under the Direction of the Federal Board for Vocational Education

Abramson, Joel E.	*Sawyer*	Agr.
Apker, James W.	*Wonewoc*	Agr.
Bateman, Clifford A.	*Salt Lake City, Utah*	Agr.
Beavers, Percival H.	*Moseley, Va.*	Agr.
Blakeley, Lyle W.	*Evansville*	Engr.
Bosworth, Walter T.	*Merrill*	Agr.
Brewin, Charles W.	*Amery*	Agr.
Bumbalek, John Loudy	*Milwaukee*	Agr.
Burke, Martin	*Natchez, Miss.*	Agr.
Christensen, Herman V.	*Rhinelander*	Agr.
Clemens, James P.	*Superior*	Agr.
Coutore, Raymond	*Madison*	Agr.
Crisler, A. E.	*Millersberg, Ind.*	Agr.
Dahl, Gustave Andrew	*Glenwood City*	Agr.
Davis, Roger	*Mineral Point*	Engr.
Doerfer, Albert George	*Madison*	Agr.
Donnelly, John George	*Evansville*	Agr.
Dusterhoft, Herman	*Hermansville, Mich.*	Agr.
Engelhardt, Philip C.	*Milwaukee*	C. C.
Evans, Robert L.	*Sparta*	Agr.
Evans, Stanley Edward	*New Lisbon*	Agr.
Ewald, John Frank	*Madison*	Agr.
Fell, Frank	*Cross Plains*	Agr.
Foreman, Fred	*Viola*	Agr.
Frame, George D.	*St. Louis, Mo.*	Law
George, William Lloyd	*Geneva, Ill.*	C. J.
Gessert, George William	*Plymouth*	Engr.
Goff, Earl S.	*Bruce*	Agr.
Goodwin, George A.	*Beaver Dam*	Agr.
Gorman, David H.	*Oregon, Ill.*	Agr.
Goshaw, Irl R.	*Gary, Ind.*	L. S.
Grady, E. L.	*Watertown*	Engr.
Graves, Ralph Sereno	*Brooklyn*	C. C.
Haase, Carl C.	*Oakdale*	Agr.
Hansbury, M. H.	*Richland Center*	Agr.
Haskell, Bert Vaughn	*Superior*	Agr.
Haug, Godfrey Hammerlund	*Milwaukee*	Agr.
Heckman, Ralph R.	*Shreve, Ohio*	L. S.
Holt, Leland J.	*Salt Lake City, Utah*	Agr.
Horne, Hans Goldberg	*Chippewa Falls*	Agr.
Jacobson, James R.	*Lanse, Mich.*	Agr.
Johnson, Francis D.	*Florence, Mass.*	Engr.
Julius, George	*Fond du Lac*	Engr.
Kassera, Robert P.	*Maiden Rock*	Agr.
Koelsch, Roman John	*Milwaukee*	Agr.
Kohls, Theodore	*Milwaukee*	Agr.
Krattley, Ulrich T.	*Hudson*	Agr.
Krell, Richard Henry	*Eau Claire*	C. C.
Ladd, Boyd C.	*Milwaukee*	C. C.
Larson, Christ J.	*Kenosha*	Agr.

Looker, Arthur B.	*Viola*	Agr
Lourite, Maurice	*Wald*	Engr.
McDonald, William Emmet	*Beloit*	Engr.
McKinley, James Andrew	*Dodgeville*	L. S.
McMillin, Grover	*Lena*	Agr.
Mack, Charles O.	*Whitewater*	Agr.
Mackmiller, George G.	*Ashland*	C. C.
Macko, Charles J.	*Chicago, Ill.*	Agr.
Magnant, George D.	*Hazelhurst*	Agr.
Melrose, L. J.	*Mondovi*	Agr.
Metropoulos, Harry Peter	*Greece*	Engr.
Michels, John H.	*Neenah*	Engr.
Moore, James	*Ladysmith*	Agr.
Mueller, Mat P.	*Neillsville*	Engr.
Nickelson, Herbert J.	*Chicago, Ill.*	Engr.
Nighbor, Stephen J.	*Berlin*	Agr.
Norgord, Evan J.	*Cambridge*	Agr.
Northey, Walter W.	*Palmyra*	Agr.
Nye, Roy C.	*Dyrand, Ill.*	Agr.
O'Hardy, John R.	*Baraboo*	Agr.
Pettit, George R.	*New London*	Agr.
Prochnow, Walter Charles	*New London*	Engr.
Rabuck, Francis	*Wonewoc*	Agr.
Ramaker, Edwin A.	*Milwaukee*	Agr.
Reddin, Henry	*Milwaukee*	Agr.
Rindall, Martin Henry	*Rhinelander*	Engr.
Robinson, Harold Burton	*Milwaukee*	Engr.
Rode, Hubert I.	*Waupaca*	Agr.
Roeske, Arthur	*Wautoma*	Agr.
Rothman, Edward	*Marinette*	C. C.
Schaub, John J.	*Madison*	L. S.
Schlafer, Elvin M.	*Menomonee Falls*	Agr.
Searls, Willam Henry	*Chicago, Ill.*	Agr.
Sevalia, Walter S.	*Brule*	Engr.
Sheldon, John Ellicot	*Hines*	Agr.
Shelhammer, John W.	*Blackwell*	C. C.
Spencer, John Daniel	*Oshkosh*	Engr.
Stellern, John A.	*St. Louis, Mo.*	Agr.
Strathearn, John G.	*Manitowoc*	Agr.
Sutherland, Fay	*Hertel*	Agr.
Sweno, Glen Ellsworth	*Whitewater*	Engr.
Taylor, Frederick B.	*Oshkosh*	Agr.
Thatcher, Paul A.	*Danbury*	Agr.
Thompson, Edward Arthur	*Daney*	Agr.
Tippman, Bert C.	*La Crosse*	Agr.
Tourdot, A. J.	*Reedsburg*	Agr.
Vande Water, Henry	*Midway*	C. C.
Van Sickle, Clayton Dewey	*Eau Claire*	Agr.
Vickers, Roy W.	*Rockford, Ill.*	Agr.
Wallace, Isaac L.	*West Lima*	Agr.
White, Herbert Henry	*Stoddard*	Agr.
Woolworth, Lloyd	*Barron*	Engr.

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Students Enrolled in Regular Courses

Ahrens, Harvey Gerald	*Two Rivers*	Agr.
Aune, Roy Albert	*Rice Lake*	Pharm.
Austerman, Richard Wagner	*Madison*	Engr.
Bailey, Paul Edward	*Menomonie*	C. C.
Balch, Harry William	*Madison*	C. C.
Barbo, George William	*Deronda*	Agr.
Bischoff, Clifford Edward	*Superior*	C. C.
Boerke, Edison Morse	*Wausau*	C. C.
Bozarth, Roger Ainslee	*Cedar Falls, Iowa*	Engr.
Bradley, Clare Smith	*Beloit*	Engr.
Brill, Lawrence Arthur	*Milwaukee*	C. C.
Brown, Lloyd Joseph	*Hailey, Idaho*	C. C.
Brown, Maynard Wilson	*Great Falls, Mont.*	Agr.
Butler, Richard	*Horicon*	Agr.
Byrns, Elmer D.	*Madison*	Agr.
Cahill, Walter D.	*Port Edwards*	Engr.
Caldwell, Earl Leroy	*Indianapolis, Ind.*	Engr.
Call, Rodney Warren	*Merrill*	Engr.
Campbell, Cleo C.	*Glencoe, Ill.*	Pharm.
Canuteson, Ralph Irving	*Galesville*	L. S.
Carothers, Andrew Beattie	*Starkesville, Miss.*	A Grad.
Carson, William Henry, Jr.	*Madison*	Engr.
Christensen, William Charles	*Eau Claire*	Ch. C.
Clark, Farnham	*Menomonie*	Agr.
Coit, Lew Garrison	*Hudson*	C. C.
Colvin, Hardwick Jayner	*Dubuch, La.*	A grad.
Cramer, Lawrence W.	*Milwaukee*	L. S.
Crosby, George Sumner	*Hamilton, Va.*	Agr.
Cutler, Rupert W.	*Rockford, Ill.*	C. C.
Darling, Lorenzo Lyman	*Manawa*	Law
Dean, Harry C.	*Madison*	Law
Decker, Harvey C.	*Chilton*	Pharm.
Degler, Louis F.	*Superior*	C. C.
De Vries, Arnold John	*Lake Geneva*	Agr.
Dolliver, Ardin Joseph	*Berlin*	C. C.
Dooley, Milton Lawrence	*Milwaukee*	Pharm.
Dunwiddie, Leon F.	*Delavan*	Agr.
Edson, Dewey George	*Aicester, S. Dak.*	L. S.
Edwards, Vivien Lynn	*Momence, Ill.*	C. C.
Evanson, Henry Bernard	*Mt. Horeb*	Engr.
Fay, Arthur Cecil	*Madison*	A Grad.
Feiges, Julius	*Racine*	C. C.
Field, Walter Sherman	*Chicago, Ill.*	Engr.
Fingel, Harry	*Oconto*	C. C.
Fischer, William G.	*Madison*	C. C.
Fitch, Elliot Grant	*Milwaukee*	L. S. Grad.
Flowers, Earl H.	*Oconto Falls*	L. S.
Frogner, Allard W.	*Weyerhauser*	Law
Gage, Earle Edgar	*Whitehall*	Pharm.
Garrigan, George Arthur	*Beloit*	Law
Gaustad, Einar	*Eau Claire*	C. C.

Gill, Corrington Calhoun	*Grand Rapids, Mich.*	C. C.
Gilson, Elmer F.	*Gillett*	C. C.
Gray, John	*Madison*	A. Grad
Greco, Charles	*Madison*	Law
Gregg, Ashton C.	*Decorah, Iowa*	L. S.
Grier, Lonnie Leander	*Lake Geneva*	L. S.
Guttke, Walter Otto	*Berwyn, Ill.*	Engr.
Hardell, Robert Edwin	*Madison*	Agr.
Hartlett, Elvin Mann	*Germantown, Pa.*	L. S. Med.
Hartman, William Albert	*Wauwatosa*	Agr.
Hawley, Clifford Stanley	*Oshkosh*	C. C.
Herried, Myron Tillman	*Blair*	Ch. C.
Honaas, Alfred	*Elk Mound*	Agr.
Hughes, Idrys Oraland	*Platteville*	Agr.
Hyer, Frank Perry	*Whitewater*	Engr.
Hyslop, Volney Butman	*Madison*	L. S., Med.
Iverson, Clarence Frederick	*Madison*	Agr.
Jackson, Benjamin Frank	*Milwaukee*	C. C.
Jacobson, Roland Arthur	*Billings, Mont.*	L. S., Med.
Jaquith, Clifford LaRoy	*Green Lake*	Agr.
Johnson, Gustavus Emil	*Boyceville*	Agr.
Kanard, Leonard John	*La Crosse*	Engr.
Kanitz, Raymond William	*Milwaukee*	Agr.
Keller, Henry, Jr.	*Madison*	A Grad.
Kohl, Leo Henry	*Marshfield*	L. S.
Kuester, Hugo Leslie	*Shawano*	Pharm.
Kutzback, Victor Reyser	*Sheboygan Falls*	Engr.
Larson, Noble G.	*Barron*	Engr.
Lawrence, Hans Will	*New London*	L. S.
Leighton, Frederic August	*Milwaukee*	Engr.
Leland, Thomas William	*Oshkosh*	C. C.
Lewis, Hugh L.	*Antigo*	Engr.
Lounsbury, Harry E.	*Richland Center*	Pharm.
Lowry, Howard James	*Colfax*	Law
Luck, Charles C.	*San Marcos, Tex.*	L. S., Med.
Luecker, Elmer William	*Brillion*	Law
McClure, Leslie Willard	*Litchfield, Minn.*	C. J.
McConnell, Kenneth	*Sparta*	Agr.
McDonald, Lawrence	*Whitewater*	C. C.
McGovran, Thomas Harris	*Charleston, W. Va.*	Agr.
McManus, James Francis, Jr.	*Chicago, Ill.*	Engr.
Mailer, Andrew Robert	*De Pere*	L. S., Med.
Markus, Norbert W.	*Quincy, Ill.*	L. S.
Merrill, Robert Allen	*Sparta*	Engr.
Miller, Thomas F.	*Green Bay*	Engr.
Millman, Donald Simons	*Platteville*	C. C.
Milum, Vern G.	*Viola*	Agr.
Mizell, John Love	*Dallas, Tex.*	L. S. Grad.
Moore, Charles Francis	*Madison*	L. S.
Mower, Donald Clayton	*Black River Falls*	L. S.
Munkwitz, Richard Charles	*Edgar*	Agr.
Murphy, Lawrence William	*Madison*	C. J.
Myrland, Eiel H.	*Mauston*	C. C.

Nappe, Edgar H.	*Elkhorn*	L. S.
Natwick, John Wesley	*Wisconsin Rapids*	Engr.
Oertel, Everett	*Prairie du Sac*	Agr.
O'Hanlan, Gerald John	*Milwaukee*	C. C.
O'Hara, James Timothy	*Mazomanie*	L. S., Med.
O'Laughlin, John Richard	*Madison*	Law
Olson, Charles Alfred	*Madison*	Engr.
Page, Arnold Seaver	*Kansas City, Mo.*	C. C.
Paxton, Joseph Francis	*Milwaukee*	Agr.
Peterson, Carl Edwin	*Menomonie*	Law
Peterson, Ephraim Lucius	*Stockholm*	C. C.
Peterson, Lester William	*Leonardsville, N. Y.*	Ch. C.
Pinto, Rene Wentworth	*Madison*	L. S.
Price, Elmer Ehlias	*McComb, Miss.*	Engr.
Price, Ferdinand Theodore	*Marathon*	Agr.
Rabbit, Ora Clyde	*Viroqua*	Engr.
Rath, Floyd Cecil	*Madison*	Pharm.
Reitan, Norman Rudolph	*Bonduel*	L. S.
Reyer, Harold Benedict	*Colby*	C. C.
Rockwell, Leslie H.	*Madison*	Agr.
Rolsted, Simon Theodore	*Barron*	Engr.
Rosenblum, Harry Maurice	*Terre Haute, Ind.*	Law
Rumage, Freeman William	*Brodhead*	Agr.
Runge, Herman Carl	*Sheboygan*	Law
Rust, Clarence Arthur	*Edgerton, Minn.*	Ch. C.
Ryan, Joseph Edward	*Janesville*	Engr.
Salen, Herman R.	*Waukesha*	Law
Sammond, Robert Saul	*Madison*	Engr.
Sand, Stanley E.	*Eau Galle*	A Grad.
Scholten, Adrian Herman	*Valley Springs, S. Dak.*	L. S.
Schrader, Ernest Joseph	*Hartford*	Law
Scott, Ralph V.	*Harden, Mont.*	L. S.
Shaw, Ralph	*La Crosse*	Engr.
Spies, Jacob Alfred	*Gillett*	C. C.
Stafford, Harold Emerson	*Chippewa Falls*	Law
Steadman, Ralph A.	*Madison*	Agr.
Stein, Bruno Adam	*S. Germantown*	Ch. C.
Stroman, Govan N.	*Uvalde, Tex.*	A Grad.
Swift, John Dewey	*Darlington*	C. C.
Sylvester, Walter H.	*Wauwatosa*	C. C.
Taylor, Raymond C.	*Barron*	C. C.
Thomas, Robert Cole	*Oak Park, Ill.*	Agr.
Thorngate, George	*Madison*	L. S. Grad., Med.
Thornsen, Adolph Gerhard	*Milwaukee*	C. C.
Tippett, Walter Pierson	*Appleton*	L. S., Med.
Tobey, Paul Titus	*Madison*	C. C.
Tollefson, John McKinley	*Madison*	Agr.
Turgeson, Fletcher	*Richland Center*	L. S.
Valine, Godfrey Wilhelm	*Pepin*	Agr.
Van Steenberg, Victor	*Milwaukee*	Ch. C.
Vogel, Julius Beecham	*Madison*	Engr.
Walker, Alfred E.	*Hinsdale, Ill.*	L. S.
Ward, Gilbert E.	*Fond du Lac*	C. C.

Weber, George F.	*Madison*	A Grad.
Webster, Francis Lyle	*Turtle Lake*	Engr.
Wiley, Robert LeRoy	*Chippewa Falls*	Law
Wittenberg, Wilbur William	*Milwaukee*	C. C.
Wood, George Emery	*Cottage Grove*	C. C.
Wurster, Carlyle Barton	*Mazomanie*	Law
Yapp, Clinton R.	*Madison*	C. C.
Youngberg, Adolf Frederick	*La Crosse*	Engr.
Zwicker, Michael Henry	*Madison*	Engr.

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SUMMER SESSION 1920

GRADUATES

Acton, Hul-Cee Marcus g — *Glasgow, Ky*
M.A., University of Wisconsin.

Adams, Jessie Barfield — *Winona, Miss.*
B.A., Mississippi State College

Aduddell, Helen Hanna — *Sarahsville, Ohio*
B.A., B.S. in E., Ohio State University

Adriano, Felipe Tiongson — *Malolos, Bulakan, P. I.*
B.Agr. (Chemistry) University of Phillippines

Akira, Takasu — *Tokyo, Japan*
B.A., Tohoku Imperial University

Albertz, Hugo William g — *Watertown*
B.S., University of Wisconsin

Alexander, Trent — *Madison*
B.A., University of Wisconsin

Alford, Laura Lavinia — *Baltimore, Md*
B.A., Goucher College

Alford, Mary Jane — *Baltimore, Md.*
B.A., Goucher College

Allen, Chester Arthur — *Ross, Mich.*
B.A., Oberlin College

Allen, Claudia Mae — *Belleville*
Ph.B., University of Chicago

Allison, Alma Sweet — *Milwaukee*
Ph.B., University of Wisconsin

Anders, Paul Rollett — *McComb, Ill.*
B.A., Knox College

Anderson, Achsah Cornelia — *Madison*
M.A., University of Wisconsin

Anderson, Birdina Margueritte — *Natchez, Miss.*
B.A., University of Illinois

Anderson, Clifford Norman — *Scandinavia*
Ph.B., University of Wisconsin

Anderson, Evan Ernest — *Marinette*
B.A., Augustana College

Anderson, Hannah Alvida — *Marshalltown, Iowa*
B.A., Gustavus Adolphus College

Anderson, Harry Gerdhart g — *Washburn*
B.S., University of Wisconsin

Anderson, Hilding Edward — *St. Paul, Minn.*
B.S., University of Wisconsin

Anderson, Henry — *Lishmore, Minn.*
B.A., Southern Minnesota Normal College

Anderson, William Tait — *Madison*
Ph.B., University of Wisconsin

Andrews, Andrew Irving g — *Oshkosh*
B.S., University of Wisconsin
Armstrong, Dora Velma — *Princeville, Ill.*
B.A., Northwestern University
Armstrong, Eva M. — *Wichita, Kans.*
B.S., Kansas State Normal School
Armstrong, Martha Christena — *Princeville, Ill.*
B.A., Northwestern University
Arnold, Henry Jay — *Waverly, Iowa*
B.A., University of Nebraska
Ashman, Benjamin Hamlin — *Madison*
B.A., Valparaiso University
Astle, Cora Alice — *Amarillo, Tex.*
B.L., University of Wisconsin
Atkinson, Harry James — *Joliet, Ill.*
B.A., University of Illinois
Aucutt, Lucile Katherine — *Aurora, Ill.*
B.A., University of Wisconsin
Austin, Ruby Hood — *Aspinwall, Pa.*
B.S., Carnegie Institute of Technology
Babcock, Fred Irving — *Albion*
B.A., Milton College
Bagemihl, Erna Louise — *Wauwatosa*
B.A., Ripon College
Bahe, Dorothy Virginia — *Kansas City, Mo.*
B.A., University of Illinois
Bain, Bertha — *Kansas City, Mo.*
Ph.B., University of Chicago
Baird, Edgar Alan — *Madison*
M.A., University of Wisconsin
Baker, Edith — *Arlington, N. J.*
B.A., Indiana University
Baker, Mabel Jarvis — *Andover, Ohio*
B.A., Oberlin College
Bandel, Agnus — *Baltimore, Md.*
B.A., Goucher College
Banta, Josephine Davis — *Indianapolis, Ind.*
M.A., University of Chicago
Barker, Augustus Lawrence g — *Ripon*
M.S., University of Alabama
Barker, Robert Isaac — *Friendship*
B.A., University of Wisconsin
Barnes, Robert James — *Oshkosh*
B.A., Lawrence College
Barnett, Adaline Hess — *Danville, Ind.*
B.A., Indiana University
Barnett, Frank Woodin — *Wakefield, Mich.*
B.S., Michigan Agricultural College
Barry, Alfred Glen — *Manistique, Mich.*
B.A., B.C.S., Albion College
Bassett, Gladys Barton — *Baltimore, Md.*
B.A., Vassar College
Bau, Ming Chien Joshua — *Yuyao, China*
M.A., Columbia University

Baucher, Wiley Reeves — *Cairo, Mo.*
B.S., Missouri Teachers College
Bauer, Frederick Charles — *Blue Mound, Ill.*
Ph.D., University of Wisconsin
Bauman, Sarah Sterner — *Allentown, Pa.*
B.A., Wellesley College
Becker, Ruth Coulogue — *Elgin, Ill.*
Ph.B., University of Chicago
Beckus, Ebba Cecelia — *Beloit*
B.A., Beloit College
Beecher, Dorothy Alice — *Peoria, Ill.*
B.M., University of Wisconsin
Bell, Edna Fay — *Oxford, Ind.*
B.A., Ohio Wesleyan University
Belser, Birdie Alice — *Montgomery, Ala.*
B-Ped., Troy Normal School
Bemis, George Gordon g — *Antigo*
B.A., University of Wisconsin
Bendeke, Edle Lillian — *Lavinia, Minn.*
B.A., University of North Dakota
Benson, Ada — *Princeton, Ill.*
B.A., University of Wisconsin
Benson, Alfred Willis — *Niagara Falls, N. Y.*
B.A., Syracuse University
Benton, Alva Hartley g — *Winnipeg, Canada*
M.S., Pennsylvania State College
Berryman, Thomas — *Pittsburg, Pa.*
B.S., Antioch College
Birdsell, Dorothea Elizabeth — *Minneapolis, Minn.*
B.A., St. Mary's of the Woods College
Bireline, Charles Adolph — *Coffeyville, Kans.*
B.C.S., Dakota Wesleyan University
Bitterman, Grace Vivian — *Madison*
B.A., University of Wisconsin
Blain, Lillian Livingston — *Niagara Falls, N. Y.*
Pd.B., New York State College for Teachers
Blain, Mary Avis — *Manhattan, Kans.*
B.S., Kansas State Agricultural College
Blanchard, Forest Ira — *Columbus, Ohio*
B.S., University of Pittsburgh
B.A., Ohio State University
Blanchard, May Aungst — *Columbus, Ohio*
B.S., University of Pittsburgh
Bobb, Thomas Newton — *Ashland*
B.A., Northland College
Bodden, Amanda Marie — *Oshkosh*
Ph.B., University of Wisconsin
Bodensieck, Anne Marie g — *Charles City, Iowa*
B.A., State University of Iowa
Bodurtha, Robert Ellsworth — *Worcester, Mass.*
B.A., Bowdoin College
Bogan, Eleanore Mary — *Detroit, Mich.*
B.S., University of Wisconsin

Bohlman, Herbert William — *South Kaukauna*
B.A., Lawrence College
Bohstedt, Gustav g — *Madison*
B.S., University of Wisconsin
Bollinger, Mabel Eva — *Jacksonville, Fla.*
B.A., Earlham College
Bolton, Berlie — *Bonham, Tex.*
B.S., Carlton College
Bonfoey, Jennie Prudence — *Milwaukee*
Ph.B., University of Wisconsin
Boquett, Irene D. — *St. Louis, Mo.*
B.S., Cape Girardeau Missouri State College
Borchers, Helen Augusta — *Madison*
Ph.B., University of Wisconsin
Bowden, Beulah May — *Brodhead*
M.A., University of Wisconsin
Brabant, Josephine Mary — *Madison*
B.A., University of Wisconsin
Bradfield, Harriet Alma — *La Crosse*
B.A., University of Wisconsin
Brashear, Hazel Anderson g — *Moline, Ill.*
B.A., University of Wisconsin
Braun, Ann Gertrude g — *Wahpeton, N. Dak.*
B.S., University of Wisconsin
Bray, Edith Elizabeth Mary — *Kenosha*
B.S., Northwestern University
Bredin, Elizabeth — *Chicago, Ill.*
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Briggs, Adelin Sumner — *Madison*
B.A., University of Wisconsin
Briggs, Howard Bovee g — *Madison*
B.A., University of Wisconsin
Brinton, Emily Huffaker — *Salt Lake City, Utah*
B.A., University of Utah
Broda, Kathryn Emma — *Canton, Ohio*
B.A., Western Reserve University
Brosius, Rudolph Frederic — *Chippewa Falls*
B.A., University of Minnesota
Brown, Adele Lafinier — *Elyria, Ohio*
B.A., Oberlin College
Brown, Benjamin Franklin — *College Station, Tex.*
B.S., Northwestern University
Brown, Clifford LeRoy — *Terrell, Tex.*
B.A., Southern College
Brown, Harry Gilbert — *Sun Prairie*
B.A., Ripon College
Brown, Mary Fay — *Fall River, Kans.*
B.A., Balser University
Brown, Minnie — *Dallas, Tex.*
B.S., Peabody College for Teachers
Brown, Reuben Samuel T. g — *Madison*
B.A., University of Wisconsin
Brown, W. Walker — *Stoughton*
B.A., Lawrence College

Browne, Frederick Lincoln g — *Madison*
M.S., University of Wisconsin
Browning, Ethel — *Linden, Ind.*
B.A., DePauw University
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M.A., University of Wisconsin
Bruins, Rose Wagner — *Racine*
M.A., University of Wisconsin
Bryan, Ollie Clifton g — *Elba, Ala.*
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Buell, Mary Van Rennselaer — *Madison*
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Buley, Roscoe Carlyle — *Springfield, Ill.*
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B.A., Milton College
Burdick, Marjorie Jeanette — *Dunellen, N. J.*
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Burdick, William Dighton — *Milton*
B.A., Milton College
Burns, Mabel Ward — *Monmouth, Ill.*
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Bybuth, Matilda — *Eau Claire*
B.A., University of Wisconsin
Cable, Donald Elmer — *Chicago, Ill.*
B.S., Armour Institute
Cady, Jean Hayes — *Green Bay*
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Calderwood, Howard Newton, Jr., g — *Madison*
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Caldwell, Albert Francis — *Richland Center*
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Cook, Nettie May — *Spokane, Wash.*
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B.S., University of Wisconsin
Cowles, Jean Mills — *Madison*
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Cox, Alvalon Conway — *Evansville, Ind.*
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Craine, Elizabeth — *Monmouth, Ill.*
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B.A., Simpson College

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Crawford, Helen Martha — *Winfield, Kans.*
B.A., Southwestern College
Crawford, Lewis William — *Syracuse, N. Y.*
M.A., Princeton University
Crawford, Marian Elliott — *Syracuse, N. Y.*
B.S., Alfred University
Cripps, Emily Catherine — *Appleton*
B.A., Lawrence College
Croft, Hazel Irene — *Beloit*
B.A., Beloit College
Croxall, Nanon Wheeler — *Salt Lake City, Utah*
B.A., University of Utah
Cunningham, Cornelius Carman — *Madison*
B.A., Beloit College
Dabney, Eugenia Blount — *Birmingham, Ala.*
B.A., University of Toronto
Dacanay, Jose Querubin — *Pangasinan, P. I.*
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M.A., Northwestern University
Dalton, Grace Eads — *Kansas City, Mo.*
B.A., Vassar College
Dalzell, Wilbur Jennings — *Lawrence, Ind.*
B.A., Indiana University
Dana, Marguerite Conrad — *West Allis*
B.A., University of Wisconsin
Danforth, Isabella — *Washington, Ill.*
B.S., Illinois Wesleyan University
Daniels, Helen Amelia — *Sharon*
B.L., University of Wisconsin
Davee, Henry A. — *River Falls*
Ph.B., University of Wisconsin
Davies, William Robert — *Marshfield*
B.A., Ripon College
Davis, Elizabeth Louise — *Jeffersonville, Ind.*
M.A., Indiana University
Davis, Loxa Edna — *Charleston, Ill.*
B.A., University of Illinois
Davis, Melvin Grant — *Wyandotte, Ind.*
B.A., Indiana University
Deakin, Florence Isabelle g — *Waukesha*
B.A., University of Wisconsin
Deal, Anna Frances — *Elkins, W. Va.*
B.A., Wellesley College
Decker, Sarah Elizabeth — *Fond du Lac*
B.L., University of Wisconsin.
Densmore, Margaret Seaton — *Beloit*
B.A., Beloit College

Desmond, Cora Frances — *Madison*
B.L., University of Wisconsin
Desmond, Susie Isabella — *Madison*
M.A., University of Wisconsin
Deutsch, Herman Julius g — *Milwaukee*
B.A., University of Wisconsin
Dexter, Beulah Augusta — *Clarks, Nebr.*
B.A., University of Nebraska
Dixon, Nellie May — *Leon, Kans.*
B S., Kansas State Normal School
Dixon, Raymond Ephriam — *Madison*
M.A., University of Wisconsin
Dodge, Florence Adele — *Madison*
M.A., University of Wisconsin
Dodge, Mary Louise — *Madison*
B.A., University of Wisconsin
Doherty, William Thomas — *Cape Girardeau, Mo.*
B.L., Missouri State Teachers College
Dolder, Ernest — *Mandan, N. Dak.*
Ph.D., Berne University, Switzerland
Dooley, Mabel — *Madison*
M.A., University of Wisconsin
Dopkins, Clyde DeForest — *River Falls*
B.S., University of Wisconsin
Dougherty, Ethel Dorothy — *Salina, Kans.*
B.A., Baker University
Douglas, James Lee g — *Madison*
M.A., University of Wisconsin
Draper, Bernice Evelyn — *Loyal*
B.A., Lawrence College
Drummond, Neva Helen — *Mulvane, Kans.*
B.A., Southwestern College
Dumke, Emma Charlotte — *New Holstein*
B.A., Colorado State Teachers College
Dunham, Gertrude Helen — *New London, Conn.*
M.A., Smith College
Dunn, Marguerite — *Muskegon Heights, Mich.*
B.A., University of Michigan
Dunn, Wendell Earl — *Blunt, S. Dak.*
B.A., University of Wisconsin
Eaglesfield, Guy Earle — *Douglas, Ariz.*
B.A., University of Wisconsin
Easterling, Aldis Byron — *Kokomo, Ind.*
B.A., Lawrence College
Eaton, Howard Ormsby g — *Madison*
B.A., University of Wisconsin
Echternach, Harriet Ruth — *Sterling, Ill.*
B.A., Cornell College
Eckhardt, Vida Iola — *Viroqua*
B.A., Southwestern College
Eddy, Elizabeth McKee — *Ensly, Ala.*
B.A., University of Wisconsin
Edwards, Davis g — *Oberlin, Ohio*
Ph.B., University of Chicago

Edwards, Evangeline Huntley — *Oberlin, Ohio*
B.A., Oberlin College
Ehrenhardt, Helen Louise — *Terre Haute, Ind.*
B.A., Indiana State Normal School
Elliott, Alice Esther — *University Place, Nebr.*
B.A., Wesleyan University
Elliott, Foster Floyd — *Eubank, Ky.*
M.S., University of Illinois
Ellison, George Saunders — *Kansas City, Mo.*
M.A., University of Michigan
Elmer, Jacob Ulrich — *Whitewater*
B.S., Northwestern College
Emerson, Louise Lindsley — *Ekalaka, Mont.*
B.A., University of Wisconsin
Engle, Esther Annette — *Bloomington, Ill.*
B.A., University of Illinois
Erdman, Henry Ernst — *Columbus, Ohio*
B.S., South Dakota State College
Esch, Marie M. — *La Crosse*
B.A., University of Wisconsin
Evans, Eugene Harward — *Cleveland, Ohio*
B.A., Oberlin College
Evans, Nevada Sutherland g — *Eleva*
M.A., University of Minnesota
Evans, Pansy Alice — *Salt Lake City, Utah*
M.S., University of Chicago
Fairfield, Almond — *Angola, Ind.*
B.S., Tri State College
Falstad, Clarence Henry — *Eau Claire*
B.S., University of Wisconsin
Farmer, Hallie — *Anderson, Ind.*
B.A., Indiana State Normal School
Farnsworth, Harry Edward g — *Ripon*
B.A., Ripon College
Faust, Martin Luther — *Ambler, Pa.*
M.A., Pennsylvania College
Fay, Arthur Cecil g — *Bethany, Mo.*
B.S.Agr., University of Missouri
Fenton, Clyde Henry — *Neenah*
B.A., Lawrence College
Ferguson, Margaret — *Buffalo, N. Y.*
B.A., Vassar College
Fernald, Martha Elizabeth — *Boston, Mass.*
B.A., Radcliffe College
Ficke, Hermann Styks — *Dubuque, Iowa*
Ph.B., LaFayette College
Fisher, Dorsie — *Columbus, Ohio*
B.S.Ed., Ohio State University
Flack, Bertha England — *Tuscola, Ill.*
B.A., Ohio Wesleyan University
Fleming, Catherine Loretta — *West Allis*
B.A., University of Wisconsin
Fletcher, Catherine Custis — *Wilmington, Del.*
B.S., Women's College of Delaware

Flinn, Lillie Elizabeth — *Philadelphia, Pa.*
B.A., Swarthmore College
Foraker, Nora — *Wellington, Kans.*
B.A., Kansas University
Ford, Charles F. — *Edwardsville, Ill.*
B.A., Knox College
Forster, George F. g — *Macon, Ga.*
B.A., Emory College
Foster, George Henry — *Richmond, Va.*
B.S., University of Wisconsin
Frazier, Katharine — *Morganfield, Ky.*
B.C.S., Bowling Green Business University
Freytag, Frederick Clark — *Reynolds, Ill.*
B.A., Augustana College
Fronda, Francisco Mamaclay — *Laguna, P. I.*
M.S., Cornell University
Fulkerson, Katharine — *Winfield, Kans.*
B.A., University of Kansas
Fuller, Charles Fairchild — *New York, N. Y.*
B.A., Harvard University
Fuller, Vivian Marguerite — *La Crosse*
B.A., University of Wisconsin
Gaines, J. Harry — *North Crandon*
B.A., Beloit College
Gallup, Merle Robb — *Sparland, Ill.*
B.A., Hedding College
Gardner, Clara — *Joplin, Mo.*
B.S., University of Missouri
Gardner, Dorothy Genevieve — *Platteville*
B.A., University of Wisconsin
Garwood, Ruth Emma g — *Madison*
M.A., University of Wisconsin
Gaydon, Nellie Frederica — *Geneseo, Ill.*
B.A., Augustana College
Gebhard, Cornelia Marie — *West Allis*
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George, Margaret Hetherington — *Wilmington, N. C.*
B.S., North Carolina College for Women
George, May Olivia — *Ypsilanti, Mich.*
B.A., University of Wisconsin
Gerhart, Arthur Richenbaugh — *Memphis, Tenn.*
B.S., Pennsylvania State College
Gilbert, Donald Monroe — *Albion, Mich.*
M.A., West Virginia University
Gilman, Robert Louis — *Oshkosh*
B.S., University of Wisconsin
Godfrey, Minnie Almeda — *Walworth*
B.A., Milton College
Goodrich, Lowell Pierce — *Ripon*
B.A., Ripon College
Goodyear, Bessie Edith — *Wichita, Kans.*
B.A., Friends' University
Gothard, Martha Claire — *Covington, Ky.*
B.A., Western College

Graff, Marshall Conant — *Wausau*
B.A., University of Wisconsin
Grams, William Theodore — *Watertown*
B.S., University of Wisconsin
Grant, Eleanor May — *Monico*
B.A., Ripon College
Grant, Xina M. — *Comstock*
Ph.B., Colorado State Teachers College
Graves, May Helen — *East Cleveland, Ohio*
B.A., Lake Erie College
Gray, John g — *Madison*
M.S., University of Wisconsin
Gray, Willa Jean — *New Town, Ind.*
B.A., Indiana University
Gregory, Annadora — *Crete, Nebr.*
M.A., University of Nebraska
Grenoble, Olive Blanche — *Lena, Ill.*
B.A., Wittenberg, College
Grest, Ursula — *Fargo, N. Dak.*
B.S., North Dakota Agricultural College
Grey, Hugh Morton — *Davidson, N. C.*
B.A., Davidson College
Grindstuen, Iver Iverson — *Belfield, N. Dak.*
B.A., Luther College
Grover, Alice Mary — *Madison*
B.A., University of Wisconsin
Guimaraes, Archimedes Pereira — *Santos, Brazil*
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Hagerty, Bernice Icylene — *Knapp*
B.A., University of Wisconsin
Hall, Frank Gregory g — *Milton*
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Hamilton, Bertha g — *Madison*
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Hathaway, Edward Sturtevant — *Greenville, Tenn.*
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Hayes, Augustus Washington — *Pleasant Plains, Ill.*
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Haylett, Ruth Cleland — *Evansville*
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Heddle, John Ronald g — *Madison*
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Hein, Fred — *South Milwaukee*
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Hilpert, Alice Emma — *St. Louis, Mo.*
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Hoffman, John Wesley — *New Orleans, La.*
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Houghteling, Jay Ritter — *Chicago, Ill.*
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Houghteling, Norma — *Chicago, Ill.*
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Huey, Grace Donaldson — *Monmouth, Ill.*
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Hughes, Edna Belle — *Randolph*
B.A., Lawrence College
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B.A. St. Olaf College
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B.A., University of Minnesota
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B.A., University of Wisconsin
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B.S., Columbia University
Jackson, Charles Donald — *Evanston, Ill.*
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B.A., University of Wisconsin
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B.A., University of Minnesota
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Johnson, Lawrence Christian — *Richland Center*
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Jones, Renette — *Madison*
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Jones, Thelma Fay — *Spring Green*
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Lauer, Lucille Marguerite — *Monroe, Mich.*
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Livingston, William Francis — *Milton Jct.*
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Ludington, Olive May — *Evansville*
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McPherson, Maud Esther g — *Washington, D. C.*
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Merrill, Willard Doris g — *Madison*
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Meyer, Laura Ann — *Prairie du Sac*
B.A., University of Wisconsin
Meyer, Marguerite Claire — *Galveston, Tex.*
B.A., University of Texas
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Miller, Sidney Lincoln — *Madison*
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Mitchell, Mary Baldwin — *Wilmington, N. C.*
B.A., North Carolina College for Women
Mix, Hannah Arlotta Bass — *Alfred, N. Y.*
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Mix, Morton Earl — *Alfred, N. Y.*
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Moeschler, Clara Margaret — *Stevens Point*
B.A., University of Wisconsin
Moffett, Ruth Elsie — *Knightstown, Ind.*
B.A., Earlham College

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Moore, Sylvester g — *Greencastle, Ind.*
B.A., De Pauw University
Morehouse, Edward Ward — *Springfield, Mass.*
B.A., Amherst College
Morgan, Glenn — *Terre Haute, Ind.*
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B.A., University of Kansas
Morley, Edna — *Baraboo*
B.S., University of Wisconsin
Morrell, Gladys Leone — *Escanaba, Mich.*
B.A., University of Wisconsin
Mowry, Cora May — *Derry, Pa.*
B.A., University of Pittsburgh
Mulliken, Mary Hester — *Baltimore, Md.*
B.A., Goucher College
Murley, Eva Iola — *Shullsburg*
B.A., University of Wisconsin
Murphy, Eleanor Janet g — *Madison*
M.A., University of Wisconsin
Naidl, George Matthew — *Eagan, S. Dak.*
Ph.B., University of Wisconsin
Namba, Riichiro — *Tokio, Japan*
B.A., Waseda University
Nash, Francis Ralph — *Hayward*
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B.A., Fordham College
Neitzel, Anna Louise — *Watertown*
B.A., University of Wisconsin
Neptune, Katharine — *DeKalb, Ill.*
B.A., Western College
Nettleton, Lewis Lomax g — *Nampa, Ida.*
B.S., University of Idaho
Niebaum, Clara Luella — *Pittsburgh, Pa.*
B.A., Pennsylvania College for Women
Nienaber, Katherine Mable — *Madison*
B.S., University of Wisconsin
Noel, Blanche Putnam — *Indianapolis, Ind.*
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Noer, Ruth Douglas — *Wabeno*
B.S., University of Wisconsin
Noland, Lowell Evan g — *Madison*
B.A., DePauw University
Nordlie, Herman Clarence — *Stoughton*
B.A., Luther College
Norris, Laura Marie — *Manchester, Iowa*
B.A., Wellesly College
North, Nell Browne — *Mercersburg, Pa.*
B.A., Kee Mar College
Oldfather, Charles Henry — *Crawfordsville, Ind.*
B.A., Hanover College

Olivier, Victor Frederick Orlando g — *Kalkspruit, Transvaal, S. Africa*
B.Sc., University of Kentucky
O'Neill, Miriam Catherine — *Cloquet, Minn.*
B.S., University of Wisconsin
Onsrud, Minnie Christine — *Stoughton*
B.A., University of Wisconsin
Orem, Bernadette Rose — *Chicago, Ill.*
B.A., Northwestern University
Ostlund, Elvira Otilia g, m — *Butte, Mont.*
B.A., University of Wisconsin
Ott, Edwin — *Sioux Falls, S. Dak.*
M.A., Harvard University
Otterson, Joseph Otterson — *Madison*
B.A., University of Wisconsin
Outland, Ruth Avis — *Anamosa, Iowa*
B.A., Coe College
Owen, Judson Quincy — *Ft. Collins, Colo.*
B.A., Illinois Wesleyan University
Packard, Eliza — *Springville, Utah*
B.A., University of Utah
Paddock, Frank — *Terre Haute, Ind.*
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Parisius, Herbert William — *Watertown*
B.A., Northwestern College
Parker, Frank Wilson g — *Madisonville, Ky.*
B.S., Alabama Polytechnic Institute
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Parrish, Olive Lee — *Fayette, Mo.*
B.L., Howard Payne College
Parritt, Jeannette — *Chicago, Ill.*
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Parsons, Lewellen Bradley g — *Binghampton, N. Y.*
B.S., Syracuse University
Patter, Vernon Edward van — *Sterling, Kans.*
M.S., South Dakota Wesleyan University
Patterson, I. F. — *Cleveland, Ohio*
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Pavlicek, Frank J. — *Toledo, Ohio*
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Peabody, Eunice Diantha — *New Richmond*
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Pearson, Norma Lenys g — *Bloomington*
B.A., University of Wisconsin
Pease, Ramond Burnette g — *Oregon*
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Peterson, Otto Edward — *Sycamore, Ill.*
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B.A., University of Wisconsin
Pieh, Addie Emma — *Madison*
B.A., University of Wisconsin
Pierson, Lorraine — *Lexington, Ky.*
M.A., Transylvania College
Pierson, Oriana Pauline — *Lexington, Ky.*
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Pietenpol, Clarence John g — *Madison*
B.S., University of Pittsburgh
Plank, Celeste — *St. Louis, Mo.*
B.A., Washington University
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B.A., Ripon College
Ponsler, Rolla — *Flat Rock, Ind.*
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B.A., University of Wisconsin
Porter, Melvina Susan — *Evansville*
B.L., University of Wisconsin
Post, Kate — *Madison*
B.A., University of Wisconsin
Preston, Genie Johanna — *Strawberry Point, Iowa*
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Reinhard, Emilie Sophie — *Baltimore, Md.*
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LL.B., University of Wisconsin
Sanders, Isaih Sumner — *Alcorn, Miss.*
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Aikins, John Thomas l s — *Viroqua*
Albrecht, Karl Albert l s — *Appleton*
Albrecht, Louis John l s — *Kewaunee*
Alderson, Bess Harriet — *Chambers, Nebr.*
Aldredge, Edna M. — *Bellaire, Ohio*
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Alexander, Ruth l s — *Madison*

Allen, Dorothy	*Indianapolis, Ind.*
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Alschuler, Jacob Edward l s	*Aurora, Ill.*
Ambrose, Margaret Clarice	*Nevada, Iowa*
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Anda, Evelyn S. B.	*Chicago, Ill.*
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Andersen, Olga Fredrika l s	*Madison*
Anderson, Earl	*Grantsburg*
Anderson, Frances	*Atlanta, Ga.*
Anderson, Jennie Hazel	*Black River Falls*
Anderson, Luther Carleton l s	*Scandinavia*
Anderson, Marion Ruth	*Madison*
Anderson, Mary Eloise	*Chicago, Ill.*
Anderson, Neva Esther l s	*Superior*
Anderson, Ottilia Christina l s	*Madison*
Andrews, Harriet Moran	*Baraboo*
Andrews, Ira Randolph l s	*Hazel Green*
Anspach, Charles J.	*Milwaukee*
Anstey, Helen Belinda l s	*Beetown*
Applegate, Lucy D.	*Thorntown, Ind.*
Armstrong, William Franklin	*Merkel, Tex.*
Astell, Mollie	*Madison*
Atwood, John Thomas l s	*Gays Mills*
Ault, Arthur Ray	*Momence, Ill.*
Aune, Roy Albert l s	*Rice Lake*
Ayers, Bernice Gertrude	*Wilson*
Bacon, Mildred Beatrice	*Stevens Point*
Bach, Clarence Edwin	*Milwaukee*
Bachmann, Louise Cathrine	*Toledo, Ohio*
Bailey, Paul Edward l s	*Menomonie*
Baker, John Gower l s	*St. Croix Falls*
Baker, Marie	*Grand Rapids, Mich.*
Baldwin, Kate Lathrop	*Grand Rapids, Mich.*
Baldwin, Mary Clapp	*Duluth, Minn.*
Baldwin, Mary Florence	*Grand Rapids, Mich.*
Ballantyne, Ethel Mary	*Chicago, Ill.*
Ballard, Ethel Rebecca	*Albion, Iowa*
Bamford, George Joseph l s	*Plymouth*
Banker, Louis Curtis	*Richland Center*
Barager, Vila Eunice	*Stevens Point*
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Barnes, Barbara	*Rockford, Ill.*
Barnes, Jane May	*Grand Rapids, Mich.*
Barnes, Roy Hassett	*Burlington, Iowa*
Barney, Grace Emma	*Superior*
Barney, Tyler Davis l s	*Sparta*
Barry, Linda Elizabeth	*Sauk City*
Barstow, Myrtle Lula	*Oklahoma City, Okla.*
Bartholomew, Ruth	*Mukwonago*
Bartlett, George William l s	*Racine*

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Baskerville, Florence Kelly	*Madison*
Bassett, Clarke Davis	*Aberdeen, S. Dak.*
Bast, Elsie Caroline	*Sheboygan*
Baughman, Theresa Cecile l s	*Grand Rapids*
Bauman, George Alexander l s	*Oshkosh*
Beach, Joseph Barnes l	*Whitehall*
Beach, Maud May	*Springfield, Ill.*
Beach, Watsen	*Bad Axe, Mich.*
Beatty, John Townsend	*Highland Park, Ill.*
Beck, Mary Anthony	*Pittsburgh, Pa.*
Becker, Mona Blanche	*Wausau*
Beckman, Mildred Albertina	*Central City, S. Dak.*
Beckwith, Emma	*Quincy, Ill.*
Beebe, Alice May	*Sparta*
Behnke, Hertha Clothilda	*Potter*
Bell, Edgar Frank	*Chicago, Ill.*
Belser, Clara Helen	*Montgomery, Ala.*
Bendeke, Elsa Elizabeth	*Grand Forks, N. Dak.*
Bendeke, Marion l s	*Grand Forks, N. Dak.*
Benedict, Grace	*Rupert, Ida.*
Bennett, Jean May	*Evanston, Ill.*
Bennett, Ruth Carrie	*Grand Rapids*
Benson, Elmer Fred l s	*River Falls*
Bente, Mildred	*Elkader, Iowa*
Berg, Benita D.	*Madison*
Berger, Elsa l s	*Milwaukee*
Berger, Pauline Florence	*Oak Park, Ill.*
Bergstrom, Clara Alice	*Beloit*
Bernhardt, Edmond Lloyd	*Wilton*
Berry, Esther Mary	*Milwaukee*
Berry, Geraldine	*Dakota, Minn.*
Berry, Sara	*Chicago, Ill.*
Bertolotti, Mary Agnes	*Chicago, Ill.*
Beste, Curtis Francis l s	*Mosinee*
Betzer, Althea Elizabeth	*Kenosha*
Beust, Nora l s	*La Crosse*
Bienfang, Arnold John e	*Jefferson*
Bierer, Andrew Gordon Curtis, Jr.	*Guthrie, Okla.*
Bierer, Edward William l s	*Milwaukee*
Biernacki, Stanley Roy	*Buffalo, N. Y.*
Billig, Florence May	*Sioux Falls, S. Dak.*
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von Binzer, Werner Frederic	*Davenport, Iowa*
Birong, Loraine Anna l s	*Madison*
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Blatter, Erwin Walter l s	*La Crosse*
Blattner, John William l s	*Sulphur, Okla.*

Blazer, Margaret Muno	*Beloit*
Blish, Zirian Aldrich l s	*Fond du Lac*
Block, Martha Helene	*Terre Haute, Ind.*
Blodgett, Warren Earl	*Weyauwega*
Blonien, Engelbert Andrew	*Milwaukee*
Bloodgood, David Wheeler l s	*Milwaukee*
Bloodgood, Francis Joseph l s	*Milwaukee*
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Boardman, Elderkin Carver l s	*Marshalltown, Iowa*
Boeckeler, Charlotte Marie	*St. Louis, Mo.*
Boerke, Edison Morse l s	*Wausau*
Boerner, Gladys Marie l s	*Milwaukee*
Bollenbeck, Roman William l s	*Madison*
Bolliger, Lydia Aurelia l s	*Madison*
Bollinger, Elmer Edward	*Seymour, Ind.*
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Bonnifield, Mary Alcinda l s	*Ottumwa, Iowa*
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Borchers, Gladys Louise l s	*Madison*
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Borum, Ruth Minerva	*West Point, Ind.*
Bossard, Beulah l s	*Black Earth*
Bossard, G. Grant l s	*Black Earth*
Bothwell, John Spies l s	*Menominee, Mich.*
Bovard, Alice	*Kansas City, Mo.*
Bowie, Florence Hatch	*Washington, D. C.*
Bowie, Helen McKinstry	*Washington, D. C.*
Boyce, Lloyd Merrill l s	*Milwaukee*
Boyden, Alan Arthur l s	*Madison*
Boyer, Curtis Christopher	*Marion, Ind.*
Boyle, Lucille Field	*Rockford, Ill.*
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Bradley, Marguerite Jane	*Mukwonago*
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Brandrup, Charles Victor	*Fargo, N. Dak.*
Brandt, Clarence Albert l s	*Fennimore*
Branigan, Ursula Frances	*Beloit*
Branks, Lloyd Henry l s	*Janesville*
Brantingham, Helen Louise	*Rockford, Ill.*
Bredeweg, Alma Evelyn l s	*Quincy, Ill.*
Bredlow, Lulu Elizabeth	*Marshfield*
Breidablik, Anna Bergitte l s	*Madison*
Brendemuehl, Frank Ely	*Prescott*
Brewer, Fitzhugh Lee	*Marshall, Mich.*
Brewster, Grace Elizabeth	*East Troy*
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Bridgman, Alma Louise	*Waupaca*
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Brindley, John Webster l s	*La Crosse*
Brittingham, Thomas E., Jr. l s	*Madison*

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Brown, Bessie	*Racine*
Brown, Clarence Baxter l s	*Highland*
Brown, Enid Lois l s	*Colfax, Iowa*
Brown, Fred Eugene	*Arena*
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Buchholz, Lilie Elizabeth	*Kingston*
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Buckstaff, Ben Oak	*Milwaukee*
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Bur, Catherine Hedwig	*Green Bay*
Burgess, Martha Katherine	*Baraboo*
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Calkins, Elsie Leona a	*Madison*
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Carlyle, Vera Thomas l s	*Madison*
Carpenter, Cathryn Evelyn	*Racine*
Carrick, Florence May	*Jersey City, N. J.*
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Cassoday, John B. e	*Madison*
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Cavanaugh, Catherine	*Canton, Ohio*
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Caylor, Truman E. l s	*Bluffton, Ind.*
Ceaser, Carl Frederick l s	*Boise, Idaho*
de Chaboulon, Emma de Marsily	*Engelwood Cliffs, N. J.*
Chaffin, Grace Evelina	*Detroit, Mich.*
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Chandler, Caryl L. a	*Madison*
Chandler, Marianna l s	*Madison*
Chapin, Daisy Winifred	*Winslow, Ill.*
Chapin, Olive Katherine	*Evansville*

Chapman, Charles McCoy l s	*Madison*
Chapman, Katharine Fay	*Madison*
Chase, Ruluf Arthur l s	*Madison*
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Childs, Amy	*St. Louis, Mo.*
Childs, George Lawton	*New York, N. Y.*
Christ, Austin Francis	*Wausaukee*
Christensen, Norman Gilbert	*Westfield*
Christeson, Edgar Lee	*Dixon, Mo.*
Christy, Robert Harry l s	*Eureka, Kans.*
Christy, Viva Bell Mu	*Clinton, Iowa*
Clague, Coleman Elliott l s	*Winnetka, Ill.*
Clapsaddle, Janet Ames	*Leland, Ill.*
Clapsaddle, Reita Margaret	*Leland, Ill.*
Clark, Emanuel M.	*Big Rapids, Mich.*
Clark, John Anthony	*Manitowoc*
Clark, Ralph William l s	*Madison*
Clark, Vera Ruth	*Rockford, Ill.*
Clark, William Edward	*So. Milwaukee*
Claus, Pearl Elizabeth	*Madison*
Clauson, Elizabeth Bertha l s	*Red Wing, Minn.*
Clevenger, Zelda Wallace	*Indianapolis, Ind.*
Coapman, Alice Francis	*Madison*
Coats, Amy Lindemith	*Detroit, Mich.*
Coit, Charles Guernsey	*Grand Rapids, Mich.*
Coit, Lew Gerrison l s	*Hudson*
Colby, Amy Sophia	*Greenwood*
Cole, Emerson Harmon l s	*Madison*
Colean, Clara Elizabeth l s	*Peoria, Ill.*
Collins, Berenice	*St. Louis, Mo.*
Comparet, Irma	*Ft. Wayne, Ind.*
Comstock, Byron Herbert	*Portage*
Conklin, Frances Eugenia l s	*Hutchinson, Kans.*
Conklin, Katherine Mary l s	*Madison*
Conklin, Virginia l s	*Madison*
Conley, Paul Bernard l s	*Darlington*
Connell, John Williams	*Madison*
Connor, Helen Glasgow	*Cincinnati, Ohio*
Conoboy, Mary Frances	*Cleveland, Ohio*
Conroy, Catherine Josephine	*Lake Geneva*
Consigny, Harry Emerson George	*Milwaukee*
Constance, Fern Elizabeth l s	*Waupaca*
Conway, Helen Luft l s	*Grand Rapids*
Cook, Mabel Louise l s	*Chippewa Falls*
Coon, Gaylord Palmer l s	*Madison*
Coon, Harold M.	*Stevens Point*
Cooner, Lewis Day	*Pittsburgh, Pa.*
Cooper, George Olds	*Evanston, Ill.*
Cooper, Mary Maxine	*Grand Rapids, Mich.*
Cope, Walter A.	*Kennett Square, Pa.*
Cornelius, John Church l s	*Madison*

Corr, William Philip l s	*Juneau*
Corriveau, Allen Le Tendre l s	*Port Edwards*
Corsaw, Florence Rose	*Union Center*
Costerisan, George Wesley	*Richland Center*
Cottam, Geoffrey Isham Warburton	*Sioux Falls, S. Dak.*
Coulthard, Lloyd Thomas	*New Diggings*
Coutu, Henri Joseph Walter	*Delafield*
Couture, Cemilda Mary l s	*Rice Lake*
Cover, Anna Louise l s	*Johnstown, Pa.*
Coward, Isadore Elizabeth l s	*Lodi*
Cox, Eleanor Harriet l s	*Madison*
Cox, Walter Albert	*Racine*
Coxon, Robert Gregg l s	*Madison*
Crabbe, Henrietta Mary l s	*Green Bay*
Crabtree, Rodger Cooke l s	*Milwaukee*
Craite, Josephine Florence	*Manitowoc*
Cramer, Lawrence William l s	*Milwaukee*
Cratsenberg, Bernice Marie	*Madison*
Crebs, John Montgomery, Jr.	*Carmi, Ill.*
Cristman, Ezra Donner l s	*Milwaukee*
Cristy, Kenneth Earl l s	*Waupaca*
Critchlow, Virgil Burdette	*Mellen*
Crottier, Charles John	*Milwaukee*
Crowley, Robert John l s	*Janesville*
Crownhart, Jesse George l s	*Madison*
Crum, Dorothy Don	*Valdasta, Ga.*
Crump, Gordon William	*Madison*
Cruzen, Randolph l s	*Paxton, Ill.*
Cuff, Alice Maria	*Manawa*
Culver, Lucian Glenn l s	*Eau Claire*
Cumming, Hinton l s	*Milwaukee*
Cunningham, Lawrence Eugene, Jr. l s	*Beloit*
Cunningham, Margaret	*Mazomanie*
Curley, Rosamond Kathryn l s	*Terre Haute, Ind.*
Currie, Earl William	*La Crosse*
Currie, Janet Catherine	*Superior*
Curry, Robert James l s	*Baraboo*
Curts, Charles Wilson	*Paterson, N. J.*
Daggett, Ruth Eleanor l s	*Ottumwa, Iowa*
Dallmeyer, Katrine	*Jefferson City, Mo.*
Danhoff, Anna Helen	*Chicago, Ill.*
Danielson, Gertrude	*Spearfish, S. Dak.*
Darcy, Anne Marie	*Hillsboro*
Dauksys, Joseph l s	*Madison*
Davenport, Eleanore Lucile	*Ottawa, Kans.*
Davey, Ethel	*Dodgeville*
Davey, Samuel Gerald	*Eau Claire*
Davidson, Margaret Layne	*Indianapolis, Ind.*
Davies, Dora l s	*Oshkosh*
Davies, Elizabeth	*Mineral Point*
Davis, Berenice Davida	*Chicago, Ill.*
Davis, Cornelia McDonald	*Louisville, Ky.*
Davis, Florence Mae	*Mercer*

Davis, Katherine	*Savannah, Ga.*
Davis, Martin George	*Milwaukee*
Day, Alice Marie	*St. Louis, Mo.*
DeBard, Bertha Ethel	*Edmore, Mich.*
Deckmeyer, Carl John	*St. Louis, Mo.*
Delaney, Dorothy Ann	*Erie, Pa.*
Delaney, Oscar Minton	*Wharton, N. J.*
Delaney, William Francis	*Milwaukee*
Delbridge, Marjorie Anne	*Oconto Falls*
Delker, Loretta l s	*Madison*
Dellicker, Doris Elliott l s	*Milwaukee*
Deloria, Susie Mabel	*Wakpala, S. Dak.*
Derby, Jeanette M.	*West Terre Haute, Ind.*
Desmond, Humphrey Earl l s	*Milwaukee*
Detweiler, Richard Storz	*Chicago, Ill.*
Deuss, Edward Louis	*Sheboygan*
De Verter, Dorothy S.	*Crawfordsville, Ind.*
Dexter, Edwina	*Madison*
Dexter, Harry Martin	*Chicago, Ill.*
Dickelmann, Lorin Elmer	*Milwaukee*
Dickerman, Mancel	*East Troy*
Dickey, Doris Belle	*Racine*
Dickinson, Sheldon James l s	*Dundee, Ill.*
Diebold, Frances Elizabeth l s	*Madison*
Dietrich, Mabel Caroline	*Madison*
Dietzman, William Paul l s	*Richland Center*
Dilling, Lela Lucile	*Urbana, Ill.*
Dilworth, Hazel	*Mobile, Ala.*
Dine, Lockie Florence	*Milwaukee*
Dinsmore, Maud	*Delavan*
Dissmore, Elbert David	*Whitehall*
Divet, Rushby Daniel	*Fargo, N. Dak.*
Dix, Pearl	*St. Louis, Mo.*
Dixon, John	*Columbus*
Dixon, Lola Alice	*Brandon*
Dizon, Stanley Richard	*Janesville*
Dobry, Lillian l s	*Algoma*
Dobson, George Richard	*Platteville*
Dockeray, Elizabeth	*Grand Rapids, Mich.*
Dockum, Marion Lucie	*Western Springs, Ill.*
Dodge, Marie Evangeline	*Fond du Lac*
Doleysh, Deweyetta Dorothy	*Two Rivers*
Doleysh, LeRoy Joseph	*Two Rivers*
Doll, Walter George	*Prairie du Sac*
Donahue, Margaret Eleanor l s	*Milwaukee*
Donald, Ernest	*Chicago, Ill.*
Donaldson, Georgia La Fave	*Girard, Ill.*
Donaly, Marie Rubey	*Carterville, Ill.*
Doney, Laura	*Waupun*
Donkle, Venice M.	*Madison*
Donnelly, Edris	*Three Lakes*
Donner, Wilbur Starr	*Greencastle, Ind.*
Donovan, William Patrick	*Merrill*

Dooley, Milton Lawrence l s	*Milwaukee*
Dorward, William Gould l s	*Milwaukee*
Downer, Effie Muriel	*Detroit, Mich.*
Downey, William Henry	*Chippewa Falls*
Downie, May Agnes	*Cleveland, Ohio*
Doyle, Maude Elizabeth	*Stonington, Ill.*
Drabnik, William Barstow	*Algoma*
Draper, John Harold l s	*Oak Park, Ill.*
Dreps, Joseph Antoni l s	*Tomah*
Dresden, Marie l s	*Ladysmith*
Dressendorfer, Loren H.	*Fountain City*
Dresser, Helen Elizabeth	*Sturgeon Bay*
Drury, Ada B.	*Louisville, Ky.*
Dubin, William	*Milwaukee*
Duckgeischel, Edna Mildred	*Chicago, Ill.*
Dudden, Anna L.	*Oconto*
Duden, Alma	*Indianapolis, Ind.*
Dudley, Delos Edson e	*Madison*
Duffus, William McGlashan	*Burlington, Vt.*
Duffy, Loretta Christina	*Chicago, Ill.*
Duker, William T.	*Quincy, Ill.*
Dunkel, Louise	*Columbus, Ohio*
Dunn, Darrell Dewey l s	*Madison*
Dunphy, William Erwin	*Ely, Minn.*
Dunstone, Esther	*Hubbell, Mich.*
Dunton, Mary Olive	*Sycamore, Ill.*
Durch, Rose Magdalene	*Chippewa Falls*
Durgen, Effie	*Kansas City, Kans.*
Durham, Tommy Louise	*Danville, Ky.*
Durick, Ethel	*Appleton*
Durning, Anna	*Hudson*
Dwight, Frances Elizabeth l s	*Madison*
Dye, William Joseph Paul l s	*Sistersville, W. Va.*
Eager, Zaneta	*Des Moines, Iowa*
Eastburn, Margaret Roberts	*Philadelphia, Pa.*
Ebbert, Bertha J.	*Montrose, Ill.*
Eckstein, Samuel Henry	*Milwaukee*
Eden, Dorothy Marcella	*Dubuque, Iowa*
Edmonds, Hobart John	*Wausau*
Edson, Dewey G. l s	*Alcester, S. Dak.*
Edwards, Katherine Miller	*Niagara Falls, N. Y.*
Edwards, Ruth Winifred	*Chicago, Ill.*
Edwinson, Gernie Olea	*Leland, Ill.*
Egan, John Marion	*Highland*
Eggebrecht, Otto August l s	*Wausau*
Eichsteadt, Esther Carolyn	*Port Edwards*
Elder, Joshua Gower l s	*Keokuk, Iowa*
Eliason, Mary Elizabeth	*Springfield, Mass.*
Eller, Leone	*Omaha, Nebr.*
Elliott, William	*Madison*
Ellis, June Ethyle l s	*Madison*
Ellis, Samuel Robert	*Endeavor*
Elmendorf, Mary	*San Antonio, Tex.*

Elston, Bertha	*Kansas City, Mo.*
Emerson, Adolph Herman l s	*La Crosse*
Emmert, Bryan	*Chicago, Ill.*
Engel, Eleanor Rosborough	*St. Louis, Mo.*
Engelhardt, Carl John l s	*Milwaukee*
Engelhardt, William Frederick l s	*Milwaukee*
Engels, Fleurounge Elizabeth l s	*Madison*
Engeseth, Edward Johnson	*De Forest*
Enright, Helen Catherine	*Grand Rapids, Mich.*
Eppel, Florence Mae	*Woodstock, Ill.*
Erickson, Edith Thelma	*West Allis*
Erickson, Frances Marie	*Chicago, Ill.*
Erstad, Ruth	*Zumbrota, Minn.*
Escher, Marie Teresa	*Pittsburgh, Pa.*
Eschweiler, Elaine Katherine l s	*Madison*
Eskelson, Carl Ludvig	*McIntosh, S. Dak.*
Esser, Amelia M.	*Sauk City*
Esser, Robert Grant l s	*Milwaukee*
Estabrook, Eudora Porter	*Grand Rapids, Mich.*
Etchison, Grace May	*Lebanon, Ind.*
Evans, Eileen Frances	*Milwaukee*
Evans, Mary	*Pittsburgh, Pa.*
Evans, Mary Margaret	*Spring Green*
Everett, Marie Louise	*Madison*
Evraets, Anna	*Green Bay*
Ewald, Edith Vivien l s	*Mt. Carmel, Ill.*
Ewers, Nelle Sarah	*Cheyenne, Wyo.*
Ewertz, Henry l s	*Milwaukee*
Eylar, Verda	*Kansas City, Mo.*
Faber, Alice Gertrude	*Cincinnati, Ohio*
Fagan, Robert Alvin l s	*New Butler*
Falk, Adele Marie l s	*Lake Mills*
Falstad, Gilroy Orlando	*Eau Claire*
Fanning, Willis Moore e	*Delavan*
Farley, Lenora Agnes	*Madison*
Farnsley, Helen	*Creston, Nebr.*
Farnum, Frances	*Kansas City, Mo.*
Farrell, Carl William l s	*Madison*
Farrell, Mae Josepha	*Chicago, Ill.*
Fay, Louise R.	*Grand Rapids, Mich.*
Feldbush, Ruth May	*Canton, Ohio*
Feldmann, Louis Charles	*Thiensville*
Fellows, Jane Mattiford	*Milwaukee*
Felten, Clarence Bernard l s	*Milwaukee*
Felten, Rufus Benjamin	*Milwaukee*
Fendley, Jessie	*Galveston, Tex.*
Ferguson, Russell Owen l s	*Evansville, Ind.*
Ferro, F. Victor	*Lima, Peru*
Fess, Georgia Lauretta l s	*Madison*
Fiedler, Alban Bernard	*Cuba City*
Fiedler, Donald John l s	*Platteville*
Fiedler, Ralph Oliver l s	*Milwaukee*
Field, Blanche Knippenberg l s	*Madison*

Field, Maurice Eugene l s	*Rice Lake*
Fifield, James William	*Kansas City, Mo.*
Filtzer, Flora l s	*Milwaukee*
Finch, Edith Louise l s	*Peoria, Ill.*
Finkelhor, Bessie K.	*Jeannette, Pa.*
Finlayson, Helen Christine	*Jamestown, N. Dak.*
Finney, Marie Jane l s	*Madison*
Fischer, Milton A.	*Merrill*
Fischer, Warren Charles	*Two Rivers*
Fischer, William G. l s	*Unity*
Fish, Hazel Mary l s	*Cleveland, Ohio*
Fish, Marjorie Elizabeth l s	*Cleveland, Ohio*
Fishburn, Katharine l s	*Madison*
Fisher, Edith Janet	*Omaha, Nebr.*
Fisher, Elizabeth Mildred l s	*Madison*
Fitch, Logan Dallas l s	*Madison*
Fitz Gibbon, Helen Claire l s	*Madison*
Fitzgibbons, Ida Kathryn l s	*Monroe*
Fitzgibbons, James Maurice l s	*Monroe*
Fitzpatrick, Dorothy Lucile	*Chicago, Ill.*
Fitzpatrick Edward James	*Wautoma*
Fladoes, Martin Alfred	*Menomonie*
Flaningam, Grover H.	*Lebanon, Ind.*
Flatz, George Henry l s, m	*Milwaukee*
Florea, William Bowman l s	*New York, N. Y.*
Foged, Charlotte M.	*Clinton, Iowa*
Fogo, Frank Eurotas	*Richland Center*
Foley, Daisy M.	*Madison*
Fontaine, Berwyn l s	*Green Bay*
Foote, Alma Lorine l s	*Madison*
Ford, Myra	*Kingman, Ind.*
Forsbeck, Filip Carl l s	*Milwaukee*
Forsberg, Allen B. l s	*Duluth, Minn.*
Foshion, Herbert Victor l s	*Madison*
Foss, Arthur Rolf l	*Onalaska*
Foster, Amy Lufkin	*Chicago, Ill.*
Foster, Carlton Harwood l s	*Oshkosh*
Foster, Gertrude Elizabeth	*Ottumwa, Iowa*
Fowler, Alice Elizabeth	*Milwaukee*
Fowler, William McKinley	*Kankakee, Ill.*
Fox, Deyo B.	*Wayland, Mich.*
Frame, Mabel Alice	*Kansas City, Mo.*
Franklin, Anna Mary	*Kansas City, Mo.*
Fraser, Marjorie Wells l s	*Madison*
Frazier, Donald Plumb	*Chetek*
Frazier, Milton Reid	*Bloomington*
Frederick, Roland Hubbard	*Milwaukee*
Freitag, Veronica l s	*New Glarus*
Frey, Grace Adeline	*Milwaukee*
Frey, Harold Alfred l s	*Madison*
Frey, Myrtle Louise	*Chicago, Ill.*
Freytag, Arthur l s	*Chicago, Ill.*
Frohbach, Harold Otto l s	*Milwaukee*

Frye, Margaret	*Highland*
Fucilla, Joseph Guerin l s	*Racine*
Fuller, Agnes Mattie l s	*Madison*
Fuller, Constance Hilliard	*Tuscola, Ill.*
Fuller, Ira Smith	*Madison*
Gage, Earle E. l s	*Whitehall*
Gallagher, Olive Marie	*East Dubuque, Ill.*
Galpin, Charlotte Josephine	*Indianapolis, Ind.*
Gannon, Ambrose Dominick	*Sedan, Minn.*
Gapen, Zelda Judith l s	*Monroe*
Gardner, Marguerite Aleda	*Platteville*
Gasser, Herbert Spencer	*St. Louis, Mo.*
Gates, Rolly Leroy	*Kokomo, Ind.*
Geary, Dulcie Carolina	*Bruce*
Gebhardt, Hertha Anna l s	*Juneau*
Gedney, Florence Artheta	*East St. Louis, Ill.*
Geiger, Kathryn Marie	*Monroe*
Geimer, Roland Jonas l s	*Two Rivers*
Gellert, Anita Mary Ann	*Chicago, Ill.*
Gellert, Charlotte Marguerite	*Chicago, Ill.*
George, Caddie Gertrude l s	*Gays Mills*
Gerhard, Jacob William l s	*Fond du Lac*
Gernert, Hulda Marie Sophie	*Louisville, Ky.*
Getschman, Walter Edward l s	*Kenosha*
Getzloff, Lillian Sarah	*Grand Rapids*
Gibbon, Owen B.	*Madison*
Gibbons, Gertrude Marie	*Sharon*
Gibbs, Eliza Alma	*Omaha, Nebr.*
Gilbert, Corinthia l s	*Nevada, Mo.*
Gilbert, Ellen Eva	*Dousman*
Gilbert, Judith Ann l s	*Nevada, Mo.*
Gildehaus, Ethel a	*St. Louis, Mo.*
Gill, Corrington Calhoun l s	*Grand Rapids, Mich.*
Gillaspie, Huldah Ethlyn	*Indianapolis, Ind.*
Ginty, Clara Whitney	*Madison*
Giryotas, Emelia J. l s	*Cicero, Ill.*
Gleason, Gladys Anne	*Arcadia*
Gleason, Joseph Baird, Jr. l s	*Madison*
Gleason, Nellie K.	*Stevens Point*
Glenn, Frances Leona	*Indianapolis, Ind.*
Gluenkin, Arthur Lewis	*Dubuque, Iowa*
Gochnauer, Mary Anita	*Appleton*
Goeldner, Mabel Isabelle l s	*Watertown*
Goetsch, Arthur Albert	*Reedsburg*
Gogins, Franklin William	*Duluth, Minn.*
Goldberg, Ethel	*Racine*
Goldberg, Irving l s	*Milwaukee*
Golden, Beatrice Earnshaw	*Philadelphia, Pa.*
Goldmann, Jerome Monroe	*Milwaukee*
Goodhue, Katherine Doris l s	*Chicago, Ill.*
Gordon, Richard Jacob l s	*Chicago, Ill.*
Goss, Marian Maxwell l s	*Oshkosh*
Goss, Victor Vayne	*Mondovi*

Gowdy, Helen Maude	*Cleveland, Ohio*
Graham, Alex. Richard	*Madison*
Graham, Esther Gertrude l s	*Milwaukee*
Graham, Jean	*Ottawa, Kans.*
Graham, John William	*Tonica, Ill.*
Graper, Herbert Frederic	*Ft. Atkinson*
Graves, Helen Bryan l s	*Viroqua*
Graves, Marian Grace l s	*Harlan, Iowa*
Gray, Maude L.	*Kansas City, Kans.*
Gray, Ruth Hagerman	*Sturgis, Mich.*
Greco, Charles l s	*Madison*
Greeley, Romanza A.	*Shannon, Ill.*
Green, Belle Rankin	*Mukwonago*
Green, Ellen Georgia	*Saginaw, Mich.*
Green, Margaret Thorp l s	*Washington, D. C.*
Greene, Alice Rita	*Toledo, Ohio*
Greer, Oden Searcy	*Houston, Tex.*
Gregory, Lawrence William l s	*Valders*
Gregory, Maklem Wallis	*Delavan*
Greider, Henry Lewis	*Cromwell, Ind.*
Grenoble, Edna May	*Lena, Ill.*
Griest, Mary Ruth	*Omaha, Nebr.*
Griffin, Tella Francis	*Albany*
Griffin, Thomas William	*Rockford, Ill.*
Griffis, Florence J.	*Mt. Hope*
Griffith, Lora Kennette	*Kittanning, Pa.*
Grimes, Earl Russell l s	*Lancaster*
Grimm, Alfred Frederick l s	*Madison*
Groat, Harry Richard	*Kingsfort, Tenn.*
Groffman, Harlan George	*Manitowoc*
Gronemeyer, Philip Arnold	*St. Louis, Mo.*
Groneweg, Esther Frances	*Council Bluffs, Iowa*
Gronquist, Magnhild Theodora	*Chicago, Ill.*
Groth, Irene Marie	*Jackson*
Grueneisen, Jesse Raymond l s	*Madison*
Gruener, Theodore	*Cleveland, Ohio*
Grueningen, Rebecca V.	*Kiel*
Gruhl, Alfred Monroe l s	*Milwaukee*
Guequierre, Jacques Pierre	*Madison*
Guerth, Max John	*Hoboken, N. J.*
Guilfoile, Elizabeth	*Cincinnati, Ohio*
Guimont, Marie De Sange	*Green Bay*
Gullikson, John Wendell	*Blue Earth, Minn.*
Gumpper, Adah Kathryn	*Ft. Wayne, Ind.*
Gunnison, Bessie Maria	*River Falls*
Gurnett, Gwendoline	*Davenport, Iowa*
Gustin, Fred E.	*Bancroft*
Gutekunst, Joseph, Jr.	*Wilson, Mich.*
Guthrie, Dorothy Beatrice	*Racine*
Guyer, Edwin Michael C. l s	*Madison*
Habermann, Julia Anne	*Florence*
Habernicht, Clara	*Madison*
Hadley, Gladys l s	*Ft. Wayne, Ind.*

Haertel, Gertrude Elizabeth	*Waukesha*
Haertlein, Frieda Ida	*St. Louis, Mo.*
Haffey, Anna Agnes	*South Range*
Hagan, Helen Edith	*Dayton, Ohio*
Hagberg, Ida O.	*Superior*
Hagen, Helga Anita	*Chicago, Ill.*
Hagen, Inga Margrethe	*Chicago, Ill.*
Hagerman, Louise	*Sturgis, Mich.*
Hahn, Dorothy Elizabeth l s	*Chicago, Ill.*
Hain, Laura	*Lakewood, Ohio*
Haire, Agnes Anna	*Grand Rapids, Mich.*
Hales, Ellen Barbara l s	*Mineral Point*
Haley, Irene Wilson	*Tulsa, Okla.*
Hall, Marion Ferris l s	*Evanston, Ill.*
Hall, Vivian	*Appleton*
Halling, Martin Andrew l s	*Milwaukee*
Halsor, Josephine Marie l s	*De Forest*
Halsted, Meryl Altress	*Weyauwega*
Hamilton, Grace a	*Berlin*
Hance, Willard Bell e	*Angus*
Handcock, Esther Virginia l s	*Madison*
Haney, Earl McKinley	*Crandon*
Hanley, Catherine Irmena l s	*Madison*
Hanna, Edith Joyce	*Kansas City, Mo.*
Hansen, Adolph Marius l s	*Madison*
Hansen, Freda Vivian	*Madison*
Hansen, Margaret	*Hubbard Woods, Ill.*
Hansen, Matilda	*Kenosha*
Hanson, Genevieve Florence l s	*Fond du Lac*
Hanson, Gerald Jay l s	*Wautoma*
Hanson, Gertie Lulie	*Richland Center*
Hargan, James l s	*Madison, Ind.*
Harloff, Gladys Louise l s	*Madison*
Harman, John P. l s	*Sparta*
Harmes, Agnes Louise	*Phelps City, Mo.*
Harper, Helen Campbell l s	*Burlington*
Harrack, Gertrude	*Milwaukee*
Harrack, Harriet	*Milwaukee*
Harrington, Alice H.	*Madison*
Harrington, Catherine	*Oshkosh*
Harrington, Veronica Mary l s	*Madison*
Harris, David Earl	*Grace, Idaho*
Harris, George Washburn l s	*Madison*
Harrison, Lilian Mauro	*Keith Inch, Mo.*
Harsh, William A. l s	*Nashota*
Hart, Mable Beth	*Hillsboro*
Hart, Mae Evelyn l s	*Waunakee*
Hart, Margaret Flora	*Wauwatosa*
Harting, Ralph Waldo l s	*Elmwood, Ind.*
Harlett, Elvin Mann l s	*Wausau*
Harvey, Murray Cheever	*Wellesley Hills, Mass.*
Hassemer, Mary Katherine	*Chippewa Falls*
Hatch, Irma Clex l s	*Eau Claire*

Hatch, Mildred	*Westtown, Pa.*
Hatch, Vernon Victor l s	*Eau Claire*
Hatfield, Hazel May l s	*Madison*
Hathaway, Mary A.	*Kansas City, Mo.*
Hatley, George Bain	*Adamsville, Tex.*
Hattershire, Margaret	*East St. Louis, Ill.*
Hauck, Helen Constance	*Cincinnati, Ohio*
Hauck, Kittie M.	*Cincinnati, Ohio*
Haugan, Addison l s	*Beloit*
Hausmann, Eleanor Henrietta l s	*Madison*
Hausmann, Helen Amanda l s	*Madison*
Hausmann, Millie Louise l s	*Madison*
Haven, Earl Edward	*Madison*
Hawkins, Harry L.	*Vermillion, S. Dak.*
Hawkins, Helen L.	*Rosedale, Ind.*
Hawkins, Percy Stanley	*Napier, New Zealand*
Hawks, Ralph Eli l s	*Horicon*
Hawley, Clifford Stanley l s	*Madison*
Hawthorne, Gladys Ruth	*Madison*
Hawthorne, Grace	*Bellefontaine, Ohio*
Hay, Belle A.	*Cleveland, Ohio*
Hay, Christine Spence	*Chicago, Ill.*
Hayes, Ramona Sarah l s	*Madison*
Healy, Margaret Catherine	*Antigo*
Heath, Hazel Iva	*Rockford, Ill.*
Heckbert, Sydney Carl	*Woodstock, N. B., Canada*
Heeman, Harriet Marguerite	*Buffalo, N. Y.*
Heidbreder, Ralph Harold l s	*Quincy, Ill.*
Heidler, Martha	*Springfield, Ill.*
Heisman, Milton John l s	*Watertown*
Held, Myrtle Violet	*Chicago, Ill.*
Hellebrandt, Frances Anna l s	*Oak Park, Ill.*
Hellman, Josephine	*Kansas City, Mo.*
Helm, Ella Florence	*Webb City, Mo.*
Hemingway, Robert Wing l s	*Mattoon*
Hemsing, James Franklin	*Milwaukee*
Henderson, Joseph Melville	*Walworth*
Henderson, Myrtle	*Chicago, Ill.*
Hendricks, Anderson Franklin	*Marble Hill, Mo.*
Henkel, Albert John	*Lodi*
Henkel, Otto Ernest	*Watertown*
Henry, Allan Penfield	*Madison*
Henry, John	*Carnegie, Pa.*
Henry, William Benjamin l s	*Oconto Falls*
Hepperle, Hulda	*Dubuque, Iowa*
Hercher, John Daniel	*Milwaukee*
Hermann, Vera Dorothea a	*St. Louis, Mo.*
Hertz, Clyde Edward	*Waukesha*
Hertzberg, Oscar Edward l s	*Oshkosh*
Hess, Ardis Marie l s	*Mauston*
Hess, James Sam l s	*Mauston*
Hesse, Lucie Sophie	*Madison*
Hessing, Hazel Pauline	*Windsor*

Hetzler, Edgar Pickett	*Hinsdale, Ill.*
Hickok, Katherine Cramer	*Covington, Ky.*
Hicks, Genevieve a	*Madison*
Hicks, Marion Adah	*Madison*
Hiecke, William Arthur	*Milwaukee*
Hield, Charles Raymond	*Janesville*
Hield, Norman Edward	*Janesville*
Hill, Florence Jane	*Superior*
Hill, Gertrude Mary	*Houghton, Mich.*
Hill, Lucille Gladys	*Mauston*
Hill, Lydia Alice	*Lake Geneva*
Hill, Rose Matilda	*Superior*
Hill, Sara Florence	*Black River Falls*
Hinterberg, Edward Herman l s	*Eau Claire*
Hintze, Laura	*St. Louis, Mo.*
Hipke, Malcolm Maynard l s	*Milwaukee*
Hirsch, Edmund e	*Milwaukee*
Ho, Sze Yuan	*Shantung, China*
Hodgson, Gladys Mary Ann	*Arena*
Hodney, Sigrid Carlson l s	*Madison*
Hoenig, Clara	*Brillion*
Hoenig, Elsie	*Troy, Ill.*
Hoffman, Jennie Louise l s	*Madison*
Hoffman, William Edward	*Lyndhurst*
Hoffman, Martha L.	*Dubuque, Iowa*
Holcombe, Ray Edward	*Madison*
Holden, Katharine	*Merrill*
Hollahan, Catharine Elizabeth	*Dayton, Ohio*
Holman, Luther Leslie l s	*Madison*
Holmburg, Frances Estelle	*Madison*
Holmes, Grace Anna	*St. Louis, Mo.*
Holmes, Paul Allen l s	*Milton*
Holzbauer, Marguerite	*Plymouth, Ind.*
Holzer, Janet Eunice l s	*Milwaukee*
Hook, Helen	*East St. Louis, Ill.*
Hopkins, Viola Elizabeth Barbara l s	*Madison*
Hoppert, Carl Arthur a	*Madison*
Hoppin, Edith	*Milwaukee*
Horn, Alfred Oswald	*Withee*
Hornaday, Howard Blair l s	*Indianapolis, Ind.*
Hornback, Edward Rodes	*Hannibal, Mo.*
Hornback, George Allen l s	*Hannibal, Mo.*
Hornback, John Jacob	*Huntington, Ind.*
Horter, Dorothy Frances a	*Milwaukee*
Hosoya, Toshi	*Tokio, Japan*
Hostyne, Clara	*Kalamazoo, Mich.*
Hotton, Alfred Dwight l s	*River Forest, Ill.*
Houg, Gusta Sophie	*Spring Valley*
Hough, Kenneth J.	*Oshkosh*
Householder, Bessie Josephine	*La Farge*
Houston, Walter Charles	*Milwaukee*
Hovland, Frank Carl l s	*Bloomer*
Hovlid, Leonard Marvel l s	*Menomonie*

Howard, George Emory	*La Porte, Ind.*
Howard, Margaret	*Portland, Ore.*
Howe, Burt	*Minneapolis, Minn.*
Howe, Velma Mu	*Ripon*
Hoyt, Grace Lucile	*Lake Mills*
Hua, Shih-Ting	*Tang-Kou Wasih, China*
Hubbard, Carol L.	*Madison*
Hubbard, Mary Bradley	*Plymouth*
Hubbell, Ernest Hamand	*Kansas City, Mo.*
Huber, Fred Dale	*Elsworth*
Hudson, Robert J. l s	*Boscobel*
Hughes, Florence	*Indianapolis, Ind.*
Hughes, Mary Velora	*Woodstock, Ill.*
Hughes, Ruby Catherine	*Collierville, Tenn.*
Hughes, Vera Elva	*Woodstock, Ill.*
Hunt, Catherine E. l s	*Fargo, N. Dak.*
Hunt, Lydia Elizabeth l s	*Madison*
Huntoon, Edna M.	*Toledo, Ohio*
Huntting, Laura	*McGregor, Iowa*
Hurlbutt, Hazel Leone	*Galva, Ill.*
Hurley, Roselle	*Houston, Tex.*
Husted, Irma Jean	*Cornell, Ill.*
Hyman, Lenore Helene	*Lima, Ohio*
Hyslop, Volney Butman l s	*Madison*
Iltis, Leon Leonard l s	*Duluth, Minn.*
Ingebritsen, Otis Clarence	*Madison*
Ingersoll, Sarah Ida	*Madison*
Inghram, John Thomas, Jr.	*Quincy, Ill.*
Ingold, Harry Johnson, Jr. l s	*Appleton*
Irish, Frederick Walker l s	*Tennessee, Ill.*
Irvine, Robert Kenneth	*Manawa*
Irwin, Gladys G. l s	*Elroy*
Irwin, Grace Ellen	*Holland, Ohio*
Irwin, James Wesley l s	*Madison*
Isaacson, Grace Leone	*Superior*
Isaacson, Myrtle May	*Superior*
Iversen, Agnes Matilda l s	*Stoughton*
Ives, Clara Adelaide	*Chicago, Ill.*
Ivey, Everett D. l s	*Millston*
Jack, Ruby Mae	*Pittsburgh, Pa.*
Jacobson, Roland Arthur l s	*Madison*
James, Mary Alice	*Richland Center*
Jamieson, Ray William	*Shullsburg*
Jandell, Eula Marie	*Milwaukee*
Jangewaard, Jean	*Chicago, Ill.*
Jansen, Adeline E.	*Quincy, Ill.*
Jantsch, Joseph	*Dorchester*
Jantz, Edward Frank X.	*Oshkosh*
Jardine, Zac e	*Madison*
Jarrell, Jessie Beatrice	*South Bend, Ind.*
Jencks, Vescey Belle	*Lodi*
Jenkins, Edna Loa	*Sheboygan*
Jenkins, James Thomas	*Carthage, Ill.*

Jennings, Blandford l s	*Madison*
Jennings, Elsa G.	*Milwaukee*
Jennings, Julia Annette	*Chicago, Ill.*
Jensen, Bernice Ellen	*Chicago, Ill.*
Jensen, Myrtle	*Wild Rose*
Jerg, Vera Luella l s	*Janesville*
John, Hallie Rachel	*Fremont, Mich.*
Johnson, Birdie Margaret	*Chicago, Ill.*
Johnson, Clarence Leo	*Eau Claire*
Johnson, Edith Alvina	*Marinette*
Johnson, Edith Mary l s	*Grand Rapids, Mich.*
Johnson, Esther Georgine	*Wilton*
Johnson, Florence Karolyn	*Minocqua*
Johnson, Harvey Chester l s	*Superior*
Johnson, Jennie Ulreca	*River Falls*
Johnson, Mabel l s	*Ogdensburg*
Johnson, Margaret M.	*Great Falls, Mont.*
Johnson, Marie Josephine	*Chicago, Ill.*
Johnson, Nell E.	*Chicago, Ill.*
Johnson, Nina B.	*N. Crystal Lake, Ill.*
Johnson, Scott	*St. Louis, Mo.*
Johnson, Walter Albert	*Milwaukee*
Jolliffe, Elsie Lucy l s	*Plymouth, Mich.*
Jonas, Fred Charles	*Mishicot*
Jones, Amaretta Beth l s	*Sparta*
Jones, Genevieve Ross l s	*Madison*
Jones, Harrison John	*Platteville*
Jones, Katherine Gwendolyn l s	*Madison*
Jones, Mabel Clair	*Memphis, Tenn.*
Jones, Margueritte Elizabeth	*Tebbetts, Mo.*
Jones, Russell Alger l s	*Oak Park, Ill.*
Jorndt, Bertha	*Madison*
Joseph, Fern Marietta	*Grand Rapids, Mich.*
Jost, Lillian Alvina	*Mondovi*
Jost, Mae Holzer	*Madison*
Jost, Peter	*Madison*
Jung, Josephine l s	*Milwaukee*
Kaems, Lester Lincoln l s	*Manitowoc*
Kailin, Dorothy l s	*Madison*
Kane, Florence Janet	*Milwaukee*
Karlson, Gideon Olof	*Milwaukee*
Karow, Rosetta Elizabeth	*Chicago, Ill.*
Kaufman, Abraham l s	*New York, N. Y.*
Kaufmann, Otto Frederick l s	*Sheboygan*
Kaump, Ethel Amelia	*Platteville*
Kay, David l s	*Madison*
Kayser, Adam Richard	*Parkston, S. Dak.*
Kearns, Mabel	*Chicago, Ill.*
Keech, Josephine Sara l s	*Racine*
Kell, Adeline Sylvia	*Superior*
Kellogg, Horace Banter l s	*Antigo*
Kelly, Thorvel Selmer	*Franklin, Minn.*
Kemp, Katherine Furman	*New York, N. Y.*

Kempton, Willett Main l s	*Madison*
Kennedy, Claude Charles	*Waukesha*
Kepple, Joseph Francis	*Cadott*
Kesten, Homer Davies l s	*Madison*
Kickhaefer, William Louis l s	*Milwaukee*
Kidder, Donna Mary	*Madison*
Kidder, Earle Elton	*Madison*
Kilfoy, Edward Joseph	*Fairfield, Iowa*
Kimberly, Georgiana l s	*Barrington, Ill.*
Kime, Ethel Nellie	*Union Grove*
King, Florence Mary	*Lacon, Ill.*
Kingston, Agnes Ann	*Three Lakes*
Kinnan, Arthur Houston l s	*Madison*
Kinne, Constance l s	*Elkhorn*
Kirchner, Willard Florin l s	*Fountain City*
Kirkland, Zana	*Virden, Ill.*
Klein, Margaret Viola l s	*Fort Atkinson*
Kleiner, Gretchen M.	*Madison*
Klicka, Helen Josephine l s	*Chicago, Ill.*
Klingman, John Wesley	*Menomonie*
Klockow, Fred Charles	*Milwaukee*
Klontz, Vera Vesta	*Freeport, Ill.*
Knapp, Edwin John l s	*Hales Corners*
Knapp, Helen	*Niagara Falls, N. Y.*
Knapp, Pauline	*Chicago, Ill.*
Knight, Florence Ellen	*Kansas City, Mo.*
Knight, Jocelyn Winthrop l s	*Racine*
Knight, Ralph Glenroi	*Jamestown, N. Y.*
Knippel, Susan Jane	*Milwaukee*
Knowlan, Viola Maine l s	*Green Bay*
Knowles, Edith Gray l s	*Philadelphia, Pa.*
Koch, Laura Louise	*Madison*
Koehler, Ellinor Margaret l s	*Milwaukee*
Koepp, Otto August	*Madison*
Kohl, Leo Henry l s	*Marshfield*
Kohlhoff, Carl H. l s	*Burlington*
Kohn, Charlotte Dorothy	*La Crosse*
Kohn, Florence Eleanor Mu	*Madison*
Kolhatkar, Murlidher Digamber	*Phaltan, India*
Kolicek, Marie l s	*Mishicot*
Koltes, Cecelia Lucille	*Dane*
Komers, Paula Vera l s	*Wausau*
Koppke, Ruth Josephine l s	*Madison*
Koschin, Milly Elizabeth Mu	*Racine*
Kotenberg, Albert William	*Waupun*
Kraege, Frederick Halsey l s l	*Madison*
Krause, Stella Marie	*Genoa, Nebr.*
Krembs, Ferdinand Richard l s	*Stevens Point*
Kreutz, George Charles l s	*La Crosse*
Krohn, Irwin Kjelland l s	*Black River Falls*
Krombholz, Alois John	*Milwaukee*
Krueger, Clara Marie	*Madison*
Krueger, Hattie Ottelia	*Stevens Point*

Kruschke, Walter Frank	*Waldo*
Kucheman, Norman Albert	*Moline, Ill.*
Kuehl, Frank William l s l	*Fountain City*
Kuehne, Otto Franz l s	*Kaukauna*
Kuehner, Herman William	*Cedarburg*
Kuenzli, David Benjamin l s, l	*Milwaukee*
Kuhlman, Milton Herbert	*Lowell*
Kupperman, Frances Victoria l s, m	*Madison*
Kurtz, Kenneth Hassett	*Buffalo, N. Y.*
Kurtz, Thelma Elizabeth	*Rochester, N. Y.*
Kurz, Eva Elizabeth l s	*Milwaukee*
Kyle, Lucile l s	*Tomah*
Lachant, Auda Marie	*Chicago, Ill.*
La Follette, Marie Josephine	*Madison*
Lahman, Helen May	*Franklin Grove, Ill.*
Lake, Anne Llewellyn	*Hampton, Va.*
Lamb, Harold Wadsworth l s	*Grand Rapids, Mich.*
Lampert, Florence May	*Lena, Ill.*
Lancaster, Linda	*Lockhart, Tex.*
Landis, Mae Marie	*Waynesfield, Ohio*
Lang, Edgar F.	*Jefferson*
Lange, Hanna	*Buffalo, N. Y.*
Langford, Nellie Naomi	*Heizer, Kans.*
Lappley, Esther Myrtle	*Mazomanie*
Larkin, James Hazel	*Whitewater*
Larkin, John Lawrence	*Whitewater*
Larsen, Alantser F.	*Whitewater*
Larson, Emma Sophia	*Galesville*
Larson, Lily Fern	*Wausau*
Laskey, Norman Franklin l s	*Superior*
Latimer, Frances Hamilton l s	*Mellen*
Laue, Caro	*Milledgeville, Ga.*
Laughlin, Evelyn Eleanor	*Antigo*
Lauman, Grace Langshore	*Breckenridge, Mo.*
Lautenbach, Marie	*Pella, Iowa*
Lawless, Anastasia Elizabeth	*Fond du Lac*
Lawless, Mary Margaret	*Fond du Lac*
Lawrence, Ruth Charlotte	*Madison*
Lawton, John Pulver	*Hinsdale, Ill.*
Layde, Joseph Bernard	*Wausaukee*
Leary, Susan l s	*Oak Park, Ill.*
Lee, Virginia	*Chicago, Ill.*
Leggett, Calvert John	*Madison*
Lehmann, Jane Schrumpf	*Madison*
Leighton, Frederick August E	*Milwaukee*
Leisy, Helena Marie	*Peoria, Ill.*
Leland, Thomas William l s	*Oshkosh*
Lenaghan, Robert Thomas	*Davenport, Iowa*
Lenher, George Blood l s	*Madison*
Lennie, Lauretta Veronica	*Eau Claire*
Lennon, Charles David	*Madison*
Leschensky, Emil August	*Marion*
Lessing, Marion Rose	*Urbana, Ill.*

Lester, Katharine Munroe	*Kansas City, Mo.*
Leusch, Henrietta	*Michigan City, Ind.*
Levenson, Inez l s	*Chicago, Ill.*
Levy, Dorothy	*Milwaukee*
Lewinske, Wilhelm Johann	*Sheffield, Iowa*
Lewis, Annabelle M.	*Pittsburgh, Pa.*
Lewis, Martin	*Opportunity, Wash.*
Lewis, Pauline S. l s	*Madison*
Libby, Catherine l s	*Indianapolis, Ind.*
Lichnovsky, Bertha M. l s	*Omaha, Nebr.*
Lichtfeldt, Pearl l s	*Milwaukee*
Liebe, Edel Terese	*Stoughton*
Liggett, Ethel Merle	*York, Nebr.*
Lightfoot, Lester Roderick l s	*Cloquet, Minn.*
Lindeman, Alice Pauline	*Milwaukee*
Lindstrom, Ruth l s	*Viroqua*
Link, John Thomas	*Seward, Nebr.*
Lipke, Emmagene Philamena	*Reedsburg*
Little, Mary Owen	*Peshtigo*
Little, Theresa	*Peshtigo*
Livingston, Frank Harrison	*Livingston*
Llewellyn, Pauline l s	*La Grange, Ill.*
Lockyer, Constance Victoria	*Oak Park, Ill.*
Lohfink, Clarence Henry	*Milwaukee*
Lombard, Ruth Ida	*Wausau*
Long, Cecil Everette	*Whitehall*
Long, Wallace Adolph l s	*Markesan*
Longbotham, Gilmore Thomas	*Platteville*
Loomer, Harlin Gilbert l s	*Madison*
Loose, Kathryn l s	*Waukesha*
Lorfeld, Gerhard William	*Sheboygan*
de Lorimier, Cecilia Rose	*Havre, Mont.*
Lotz, Megran Alfred	*Chicago, Ill.*
Lound, Alice Cornelia	*Prentice*
Lowry, Harold Laughlin	*Kansas City, Mo.*
Luck, Charles Carlton l s	*San Marcos, Tex.*
Lucke, Richard O.	*Omaha, Nebr.*
Lugoff, Leonard Seymour	*Duluth, Minn.*
Luhmann, Robert Adolph	*Sheboygan*
Luker, Helen Gertrude	*Milwaukee*
Lumley, Dorothy Elizabeth	*Urbana, Ill.*
Lund, Bertha Theressa	*Mt. Horeb*
Lyford, Aimee Eugenie	*Rock Island, Ill.*
Lyford, Harry Burgh l s	*Rock Island, Ill.*
Lyle, Allene	*Chicago, Ill.*
Lynaugh, Sabina Mary l s	*Madison*
Lynch, Etta M.	*Macomb, Ill.*
Lyon, Arthur Edgar	*La Harpe, Ill.*
Lyon, Helen Mable	*Lincoln, Kans.*
Lyons, Edith Roberts	*La Crosse*
Lyons, Kenneth	*Munith, Mich.*
Lyons, Maude May	*Brodhead*
McAdams, Mary l s	*Mukwonago*

Mac Ardle, Mary H.	*Indianapolis, Ind.*
McCandless, Stanley Russell	*Davenport, Iowa*
McCarthy, Charles Donald	*Green Lake*
McCarty, James Wilson	*Lima, Ohio*
McCaslin, Charles Elbert	*Brownsburg, Ind.*
McClain, Ruth Alice	*Chicago, Ill.*
McClain, Vesta	*Columbia, Mo.*
McClelland, Louise	*Webster Groves, Mo.*
McClelland, Rhoda Kirkwood	*Ripon*
McClintock, Laura Madeline	*Washington, D. C.*
McClure, Kathryn Louise	*Columbus, Ohio*
McCordie, Ada	*Bryan, Ohio*
McCormick, Charlotte	*Tomahawk*
McCoy, Elizabeth Rose	*Springfield, Ill.*
McCoy, Josephine Ann	*Springfield, Ill.*
McCrum, Blanche Prichard	*Lexington, Va.*
McDonald, Josephine Antoinette	*Memphis, Tenn.*
McDonald, Lawrence l s	*Whitewater*
MacDowell, Frances E. l s	*Chicago, Ill.*
Mac Ewan, Charlotte Genevieve l s	*Kalamazoo, Mich.*
McEwen, Merrill Clyde	*Potsdam, N. Y.*
McFeiren, Lillie Dell	*Kansas City, Mo.*
McGee, Kathleen Annette	*Gladstone, Mich.*
McGlinchay, Chloie D.	*Columbus, Ohio*
McGuire, Harriett Joseph l s	*Waunakee*
McIntyre, Darrell Donald l s	*Avoca*
McKee, Jessie Fulton	*Columbus, Ohio*
McKenney, Harriett Addell	*Oconto Falls*
McKenzie, Helen Natalie l s	*Kenosha*
McKeown, Thomas Shanks	*Chicago, Ill.*
McKone, Earl John l s	*Green Bay*
McKone, Fern Maria l s	*Green Bay*
MacLachlan, Fergus Greenham	*Macfarland*
MacLachlan, Margery Jean	*Macfarland*
McLain, Alice	*Stet, Mo.*
MacLean, Chester Eugene	*Beloit*
McLeod, Ella Grace	*Eau Claire*
McLeod, Etta Ruth	*Eau Claire*
McMahon, Anne Louise	*Greenville, Ohio*
McMahon, Rolla James	*Maiden Rock*
McMahon, Sara Gertrude	*Peotone, Ill.*
McMurry, Ora Richard l s	*Evansville*
McMurry, Ruth Emily	*Nashville, Tenn.*
McNab, Norma Relyea	*Black River Falls*
McNair, Ralph l s	*Brodhead*
McNamara, Nellie	*Bloomington*
McNicholas, Cecilia	*Plymouth*
McNicholas, Marguerite Martha	*Plymouth*
McNutt, Grace Marian	*Oxford*
McNutt, Lila Elizabeth	*Hortonville*
Mackin, William Nelson	*Madison*
Macomber, Rachel B.	*New Lisbon*
Macomber, Stephen D.	*New Lisbon*

Madden, Helen Monica l s	*Tomah*
Madison, Ruth	*Leland, Ill.*
Madsen, Violet Hansa l s	*Oregon*
Magaurn, Ruby Juel	*Green Bay*
Maher, Beatrice l s	*Kalamazoo, Mich.*
Maier, Irwin l s	*Antigo*
Mailer, Andrew Robert l s	*Madison*
Main, Elyda	*Madison*
Mallari, Ismael l s	*Manila, P. I.*
Mallon, Mary Josephine	*Chicago, Ill.*
Mallory, Louis Arthur l s	*Milwaukee*
Maloney, Laura E.	*Fond du Lac*
Maltby, Frances	*New York, N.Y.*
Maltpress, Seymour Lee l s	*Rockford, Ill.*
Manchester, Lucy Estelle	*Union Grove*
Mandelker, Martin l s	*Milwaukee*
Mandeville, Mabelle	*Chicago, Ill.*
Mann, Albert Z.	*Madison*
Mann, Frederick John	*Evansville, Ind.*
Mann, Gustav B. l s	*Evansville, Ind.*
Mann, John Paris	*Oshkosh*
Mar, Severo Francisco l s	*Tampico, Mexico*
Marchwardt, Paul F.	*Grand Rapids, Mich.*
Marden, Nathan L.	*Oshkosh*
Markhart, Florence Lulu	*Detroit, Mich.*
Markle, Dorothy	*Galveston, Tex.*
Marquardt, Gladys Eugenia	*Wausau*
Marquart, Ernest Carr	*Milton Junction*
Marquart, Philip Butler	*Milton Junction*
Marston, Myrtle Louise	*Fond du Lac*
Martin, August Henry	*Reedsburg*
Martin, Charlotte Ann	*Columbus, Ohio*
Martin, Clarence Albert	*Madison*
Martin, Harold William	*Mason City, Iowa*
Martin, Neva	*Darlington*
Martin, Theodore John l s	*Madison*
Martinson, Arnold Bohn l s	*Minneapolis, Minn.*
Mason, Hazel Bessie	*Waukegan, Ill.*
Mastaliers, Lester O.	*Kewaunee*
Matravers, Chester Harold	*Oconto*
Matschi, Christine	*Manitowoc*
Matson, George Everett	*Jackson, Mich.*
Mautz, Bernhard Meyer, Jr. l s	*Madison*
Maxcy, Grace Louise l s	*Washburn*
Mayer, Frederick Theodore	*Cincinnati, Ohio*
Mayer, Helen Louise	*Chicago, Ill.*
Meadows, Elizabeth W. l s	*Wausau*
Medeiros, Joaquim da Rocha	*Diro, Bahia, Brazil*
Meechan, Kathryn A.	*Adams, Minn.*
Meek, Dudley Holmes l s	*San Antonio, Tex.*
Meier, Paul Adrion l s	*Sheboygan*
Meinecke, Addison Louis	*Madison, S. Dak.*
Meinert, Albert E. l s	*La Crosse*

Meiselwitz, Henrietta Caroline	*Kiel*
Melcher, Burton Walters l s	*Madison*
Melcher, Louis Chester l s	*Madison*
Mellow, Mary Caroline	*St. Louis, Mo.*
Meloche, Villiers Willson l s	*Madison*
Mend, Laura	*Chicago, Ill.*
Mendenhall, Anna George	*West Chester, Pa.*
Menzel, Flora Louise	*Milwaukee*
Mero, Sanford George a	*Livingston*
Merrick, Mary Pauline	*Anderson, Ind.*
Merrill, Henry Baldwin l s	*Madison*
Merry, Harold Monroe l s	*Madison*
Metz, Henry Lawrence	*Madison*
Meyer, Ben M.	*Colby*
Meyer, Catherine Marie l s	*Oak Park, Ill.*
Meyer, Lawrence Emmons	*Oshkosh*
Michaelis, Carlena Jane l s	*Milwaukee*
Midgard, Judith May	*Stoughton*
Milbrandt, Ruth Victoria l s	*Brooklyn*
Miles, Stephen J.	*Madison*
Millar, Janet Lockhart l s	*Madison*
Miller, Adelaide Henrietta l s	*Madison*
Miller, Anna Laura	*Derry, Pa.*
Miller, Carl Grover	*Chippewa Falls*
Miller, Fanny	*Milwaukee*
Miller, Gladwyn	*Compton, Ill.*
Miller, Inga Charlotte	*Waupaca*
Miller, James Christolph	*Wausau*
Miller, Lucile Emma	*Chicago, Ill.*
Miner, Cora Belle	*Bigfoot Prairie, Ill.*
Miner, Ernest Darus	*New Glarus*
Miner, Margery Ethelwyn	*Richland Center*
Minshall, Cyrus Bertrand l s	*Viroqua*
Minton, Louise Alice	*St. Louis, Mo.*
Mishelow, Edward David l s	*Milwaukee*
Mock, Ethel Harriet	*Warsaw, Ind.*
Moe, Gena	*Menomonie*
Moebs, Helen Elizabeth l s	*Detroit, Mich.*
Moeck, Arthur Henry l s	*Milwaukee*
Moehlmann, Karl Frederick Herbert	*Spragueville, Iowa*
Moeller, Peter Rudolph l s	*Milwaukee*
Moen, Ida Gertrude	*Mason*
Moll, Dorothy	*Chicago, Ill.*
Moll, Jessie Marie	*Chicago, Ill.*
Monaghan, James Lawrance	*Milwaukee*
Monat, William Stephen	*Chippewa Falls*
Montgomery, Minette Alice l s	*Green Bay*
Moody, James Alfred	*Cambridge, Mass.*
Moon, John Frank l s	*Rosendale*
Moore, Albert Leslie	*Monticello*
Moore, Anna Florence	*Lansdowne, Pa.*
Moore, Charles Francis l s	*St. Cloud, Minn.*
Moore, Margaret Page Mu	*Fond du Lac*

Moore, Minnie J.	*Eau Claire*
Moore, Thomas Francis l s	*Watertown*
Moran, Abbie	*Grand Rapids, Mich.*
Moran, Thomas Joseph	*Alton, Ill.*
Moreau, Fred James	*Frederic*
Morehouse, Martha Adelaide	*Springfield, Mass.*
Morgan, Wendell Phillips	*Amherst*
Morien, Frances Charlotte	*New London*
Moritz, Hertha Clara	*Milwaukee*
Moroney, Robert Emmett	*Dallas, Tex.*
Morrasy, Mary Esther l s	*Sheffield, Ill.*
Morrill, Lester M. l s	*Sparta*
Morris, Francis Joseph	*Manitowoc*
Morris, Helen Jessie	*Muskegon, Mich.*
Morrison, Grace	*Des Moines, Iowa*
Morrison, Walter Franklin	*Chicago, Ill.*
Morrissey, Lewis William l s	*Madison*
Morrissy, Mame Isabella	*Wauwatosa*
Morrow, Ethel Lucille	*Pittsburgh, Pa.*
Morsbach, Edward Augustus l s	*Chicago, Ill.*
Morse, Orson S.	*Richland Center*
Morstad, Alexander Erik	*Laona*
Moss, Helen Edith	*Antigo*
Moungey, Viva Sara	*Madison*
Moxon, Mae Magdalene	*Stevens Point*
Mulcahy, Helen Josephine	*Cleveland, Ohio*
Mullane, Alice H.	*Louisville, Ky.*
Muller, Allan C. l s	*Chicago, Ill.*
Muller, Herbert Arthur	*Reedsburg*
Murch, George J. l s	*Chicago, Ill.*
Murphy, Donald Bates l s	*Peoria, Ill.*
Murphy, Helen Johanna	*La Crosse*
Murphy, Lawrence William l s	*Madison*
Murrin, John Owen	*Mayville, Mo.*
Myers, Lydia Mabel	*Fort Recovery, Ohio*
Mykel, Kathryn Aperlie	*Weyauwega*
Myrland, Eiel Harmon l s	*Mauston*
Nafziger, Ralph Otto l s	*Benton Harbor, Mich.*
Naidu, Pagadala Naresimulu Ethiraj	*Bangalove, India*
Narmonta, Liudyta Phyllis	*Chicago, Ill.*
Nathan, Wera Gatewood	*Kansas City, Mo.*
Neal, Bert Clare	*Salisbury, Mo.*
Neal, Margaret l s	*Lake City, Minn.*
Nebel, Harold	*Milwaukee*
Neff, Roy H.	*Elkhart, Ind.*
Nelsen, Emma Leonore	*Prentice*
Nelson, Frankie	*Canton, Ill.*
Nelson, Gordon Edward l s	*Superior*
Nelson, Kathryn	*Manitowoc*
Newcomb, Clara Forrest l s	*Waupun*
Newlun, Chester Otto	*Marshfield*
Newman, Mary Louise	*Jacksonville, Ill.*
Newton, Lee Ward	*Grand Rapids, Mich.*

Newton, Lesley	*Emlenton, Pa.*
Newton, Mary Alice l s	*Washington, D. C.*
Nichols, Maud Norris	*Madison*
Nicolai, Fred Ernest	*Milwaukee*
Nicols, Gladys Emma	*Independence*
Nightingale, Agnes F.	*Antigo*
Niland, Paul Joseph	*Milwaukee*
Nilson, Minnie A.	*Sycamore, Ill.*
Nilssen, Harold	*Clear Lake*
Nimlos, Mary Ruthella l s	*Madison*
Nimlos, Myrtle Iona l s	*Madison*
Niu, Yung Sheng	*Honen, China*
Noblitt, Ivan Earl	*English, Ind.*
Noblitt, Kittie Ellen	*Hamburg, Iowa*
Norris, Gertrude Houck	*St. Joseph, Mo.*
North, Gertrude Florence	*Columbus, Ohio*
North, John Kenyon l s	*Memphis, Tenn.*
Novack, Catherine Blanche	*Kenosha*
Nyhus, Ralph Edwin	*St. Paul, Minn.*
Oakey, Henry Cooper l	*Osceola*
O'Brien, Ruth Marie	*Milwaukee*
Occena, Mateo Felix l s	*San Remigo, Antique, P. I.*
Ochsner, Stanley Edward l s	*Prairie du Sac*
O'Connell, Marion Helen	*Chicago, Ill.*
O'Connor, Jennings Larry	*Renville, Minn.*
Oesau, Theodore J.	*Milwaukee*
Officer, Florence G.	*Milwaukee*
O'Hanlon, Gerald John l s	*Milwaukee*
O'Hara, M. Irene	*Superior*
O'Hora, Clarence M.	*Avoca*
O'Hora, James T. l s	*Mazomanie*
O'Hora, Sarah Agnes l s	*Mazomanie*
O'Keefe, Margaret Mary l s	*Waunakee*
O'Keeffe, Alexis Wyckoff	*Madison*
O'Laughlin, John R. l	*Madison*
Olcott, Emma	*Milwaukee*
Oldenburg, Frederick William	*Linden*
Older, Leone Florence	*Portage*
Olin, Will Garth	*Florence*
Olson, Lila Belle	*Madison*
Olson, Mildred Karen l s	*Madison*
O'Neil, Ellen Mae	*Fond du Lac*
O'Neil, Margaret Ethel	*Cloquet, Minn.*
Ophang, Ruth l s	*Madison*
O'Reilly, Alice Ellen	*Rochester, N. Y.*
Ormond, Roy Bazanquith l s	*Brookfield*
Orr, Isaac Caldwell	*St. Louis, Mo.*
Orvald, Bessie Henrietta	*Superior*
Orvald, Olive Marguerite	*Superior*
Osgood, Carroll Wilcox l s	*Windsor*
O'Shea, Katherine Gaylord l s	*Madison*
Ostrum, James Early	*Hancock*
Overhiser, Dorothy	*Hammond, Ind.*

Oyaas, Einar B.	*Eau Claire*
Pace, Byron Birdsell	*South Bend, Ind.*
Padan, Patricia Craig	*Fond du Lac*
Paddack, John Roger	*Wyoming, Ohio*
Page, Arthur Rowland	*Whitewater*
Pahl, Henry Dettef	*Clinton, Iowa*
Pallotta, Philip	*Madison*
Palm, Isabel Reed	*Madison*
Palmer, Frances A.	*Chicago, Ill.*
Palmer, Genevieve Arlysle l s	*Columbus*
Palmer, Lora l s	*La Crosse*
Palmer, Paul Whitney	*Columbus, Ohio*
Paras, Conrado l s	*Manila, P. I.*
Parish, Clarence M.	*Waupaca*
Parizak, Josephine Margaret	*Green Bay*
Parker, Charles Stanton	*Cincinnati, Ohio*
Parker, Ethel S.	*Cincinnati, Ohio*
Parker, George Macdonald l s	*St. Louis, Mo.*
Parker, George Maxfield	*St. Louis, Mo.*
Parker, Julia Grace	*Cincinnati, Ohio*
Parkhill, Ruth Willard l s	*Chicago, Ill.*
Parrish, Ella Taylor	*Kansas City, Mo.*
Parsons, Ruth Cleone	*Kansas City, Mo.*
Pasch, Lester Adolph l s	*Milwaukee*
Passmore, Josephine Bloodgood l s	*Milwaukee*
Patterson, Audrine	*Des Moines, Iowa*
Patterson, Frank Linton, Jr.	*Brooklyn, N. Y.*
Patterson, Franklin Joel	*Cleveland, Ohio*
Patterson, George Hile	*New York, N. Y.*
Patterson, Helen	*Cleveland, Ohio*
Patterson, Helen Virginia l s	*Appleton*
Patterson, Wanda Marguerite	*Clayton, Mo.*
Patton, Stella T.	*Madison*
Paul, Harold H. l	*Hales Corners*
Paulson, Thelma L. l s	*Evansville*
Paulus, Eugenie Marie	*Milwaukee*
Payne, Rachel Hannah	*Lancaster*
Peabody, Charlotte Elizabeth l s	*Madison*
Peach, Lloyd l s	*Edgerton*
Pearson, Frank William a	*Mooreland, Ind.*
Peck, David Warner	*Crawfordsville, Ind.*
Peck, Purcelle l s	*Pana, Ill.*
Pedigo, John Paul	*Madison*
Pelzer, Melda Ruth	*New London*
Pendergast, Marie Emly	*Charleston, Ill.*
Pennefeather, Florence Valene	*Kenosha*
Perrar, Elsie Minnie	*Birnamwood*
Perry, William Richard	*Hanover, N. H.*
Perstein, Maurice l s	*Madison*
Peters, Florentine	*Marengo, Ill.*
Peters, Reaves Edwin	*Warrensburg, Mo.*
Peterson, James Andrew	*Chicago, Ill.*
Peterson, Marvin Garfield l s	*Geneva, Ill.*

Peterson, Peter	*Racine*
Peterson, Robert Glen	*New London, Iowa*
Petrie, Hazen Hill l s	*Madison*
Petring, Mildred Margaret	*St. Louis, Mo.*
Pett, Ruth Eliza	*Hart, Mich.*
Pflueger, John Seiberling	*Akron, Ohio*
Phelan, Mary Isabel	*Davenport, Iowa*
Phelps, Robert Walter	*Cleveland, Ohio*
Philipp, Cyrus Lucius	*Milwaukee*
Phillips, Hannah Bessie	*Fresno, Cal.*
Phillips, Helen Lucile	*Red Oak, Ill.*
Phillips, Lyle Graham l s	*De Pere*
Phillips, Milo Alfred	*Milwaukee*
Phillips, Vera Irma l s	*Milwaukee*
Pickard, David Corvus l s	*Green Bay*
Pieh, Roy John	*Madison*
Pierce, Harrison Morton l s	*Madison*
Pierce, Laura Irene	*Kenosha*
Pillow, Madge Porter	*Pittsburgh, Pa.*
Pinch, Esther Myrta	*Hillsboro*
Pinch, Nanny Louise	*Hillsboro*
Pinther, Harold O.	*Fond du Lac*
Pinto, Rene Wentworth l s	*Racine*
Pitts, Joseph Samuel	*Libby, Mont.*
Playter, Marion l s	*Joplin, Mo.*
Plowman, Paul Dearborne	*Weyauwega*
Poertner, Dorothy Janet l s	*St. Louis, Mo.*
Pohle, Genevieve A. l s	*Madison*
Pointer, Ruth l s	*Birmingham, Ala.*
Polk, Ralph Weiss	*St. Joseph, Mo.*
Pope, Naomi Todd	*Glencoe, Ill.*
Porter, Alice Herndon	*Winchester, Ky.*
Porter, Lyell Potter	*Madison*
Post, Clarence Arthur l s	*Milwaukee*
Post, Julia Harriet	*Madison*
Post, Winfred Luscombe	*Carthage, Mo.*
Postel, Harold Hans l s	*Milwaukee*
Potter, Barbara Ella	*Sistersville, W. Va.*
Potter, Ben Hurst	*Rock Island, Ill.*
Potter, Mildred Alleane	*Stanley*
Potts, Esther Viola l s	*Madison*
Prater, Marie	*Taylorville, Ill.*
Preble, Dorothy	*Champaign, Ill.*
Preece, Wade Owen	*Battle Creek, Nebr.*
Premo, Ada May	*Baraboo*
Prescott, Dorothy Isabell l s	*Madison*
Preston, Mary Ellen l s	*Brodhead*
Preus, Elise Didrikke	*La Crosse*
Preus, Gerda Eleanore	*La Crosse*
Price, Adile Louise	*Oak Park, Ill.*
Price, Ruth Irene	*Grand Rapids, Mich.*
Pritchard, Frank Cary l s	*Madison*
Puffer, Grace A.	*Springfield, Mass.*

Pullen, Edward Markey	*Fulton, N. Y.*
Purmort, Grace Wayland	*Van Wert, Ohio*
Quigley, Lois Frances	*Memphis, Tex.*
Quimby, John Alvan	*Sheboygan*
Quimby, Margaret	*Monmouth, Ill.*
Quinn, Mary Brown	*Pittsburgh, Pa.*
Radtke, Roy Arthur	*West Allis*
Ralph, James l s	*Madison*
Ramsay, Robert Thomas, Jr.	*Indianapolis, Ind.*
Ramsey, Ronald West l s	*Rock Rapids, Iowa*
Ranck, Floyd Edward	*Union City, Tenn.*
Ransom, Dorothy Louise	*Moline, Ill.*
Rastede, Ethel Bernice l s	*Morrison, Ill.*
Rath, Floyd Cecil l s	*Madison*
Rathbun, Marion Julia	*Madison*
Rathert, Charles Edward l s	*Chilton*
Rau, Ernest William	*Tulsa, Okla.*
Raube, Herbert Albert	*Waupun*
Raue, Ethel Anne	*Crystal Lake, Ill.*
Ray, Charles Harold l s	*Milwaukee*
Raymond, Estella M.	*Chippewa Falls*
Raymond, Jessie Lauretta l s	*Madison*
Recker, Max Rogers	*Indianapolis, Ind.*
Reed, Frederick Roeser	*New York, N. Y.*
Reed, Grace May	*Springfield, Mass.*
Reetz, Otto Anton	*Bloomer*
Reichert, Stephen B. l s	*Duluth, Minn.*
Reilly, Thelma	*Chicago, Ill.*
Reinardy, Eleanor Marie	*Burlington*
Reindahl, Theresa Gladys	*Madison*
Reinertsen, Vivian Mary l s	*Milwaukee*
Reinicke, Margaret L. Forler	*Woodsfield, Ohio*
Reitsch, Ernest Edward	*Rockford, Ill.*
Rennebohm, Edwin Brandt	*Madison*
Resnekoff, Mrs. Billie	*Philadelphia, Pa.*
Retzer, John Peer l s	*Madison*
Reynolds, Deane Edwin	*Bluffton, Ind.*
Reynolds, James Wesley	*Houston, Tex.*
Reynolds, Mary Elizabeth	*Columbus, Ohio*
Reynolds, Neal C.	*Madison*
Rhomberg, Marie Isabel	*Dubuque, Iowa*
Rice, William Cyrus	*Grand Rapids, Mich.*
Richards, Archie Leon	*Stoughton*
Richards, Pearl	*Eagle River*
Richardson, Adelaide Elizabeth	*Quincy, Ill.*
Richardson, Clair	*Waco, Tex.*
Richardson, Maud Gerald	*Waco, Tex.*
Richmond, Madge Eleanor	*Springfield, Mass.*
Riddlesbarger, Ada	*Mapleton, Iowa*
Riehm, Lennal Smith l s	*Milwaukee*
Rigby, Bernice	*Virden, Ill.*
Ringheim, Margaret	*Nevada, Iowa*
Riordan, May Helen	*Chicago, Ill.*

Ritzenthaler, Otto Martin l s	*Baraboo*
Roach, Mary Margaret	*Danvers, Ill.*
Roark, Mary Kathleen	*Madison*
Robert, Elizabeth Clendenin	*St. Louis, Mo.*
Roberts, Blanche Edna l s	*Union Grove*
Robertson, Mary Ellen	*Ft. Atkinson*
Robertson, Maud Marion	*Milwaukee*
Robinson, Arthur Selden	*River Forest, Ill.*
Rockwell, Ruth Evelyn l s	*Crown Point, Ind.*
Roderick, Dorothy Evelyn l s	*Madison*
Roessler, Evora Kathryn l s	*Milwaukee*
Rogers, A. Sophie	*Columbus, Ohio*
Rogers, Flo Eleanor	*Viroqua*
Rogers, Vivian	*Dallas, Tex.*
Rolfe, Jean Francis l s	*La Farge*
Roller, Elmer William	*Milwaukee*
Rooney, Clare	*Milwaukee*
Rooney, Mary Beatrice	*Amboy, Ill.*
Rooney, Mary Josephine	*Milwaukee*
Rosebery, Ralph Waldo	*Columbus, Ind.*
Rosenberg, Sylvia Henrietta Mu	*Milwaukee*
Rosenberg, Beatrice	*Milwaukee*
Rosenberry, Katherine l s	*Madison*
Rosentreter, Frederick William	*Oshkosh*
Ross, Samuel Eddy	*Milwaukee*
Rossy, Norma	*San Antonio, Tex.*
Rott, Ella	*Wonewoc*
Rowles, Mary Veronica	*St. Paul, Minn.*
Rowley, Edith	*Sycamore, Ill.*
Rowley, Elizabeth Margaret	*Sycamore, Ill.*
Rowley, Gordon Chipman	*Madison*
Rowley, Margaret Leone l s	*Madison*
Royce, Henry Burnside l s	*Madison*
Royse, Edith Hull l s	*New York, N. Y.*
Royse, Grace	*New York, N. Y.*
Royston, Anna	*Greenville, Mich.*
Royston, Margaret	*Greenville, Mich.*
Rubado, Marie Powell	*Plymouth*
Ruby, Isabelle	*Madison*
Ruby, Violet l s	*Madison*
Rucker, Julia Emeline	*Chadron, Nebr.*
Rude, Bertha Caroline	*Superior*
Ruder, Leonce l s	*Wausau*
Rudy, Frances Eleanor	*Madison*
Rudy, Paul Passmore l	*Madison*
Ruemmele, Elizabeth Agatha	*Hudson*
Ruggles, Ruth Elizabeth	*Hurley*
Rummel, Frieda Laura l s	*Cincinnati, Ohio*
Runge, Erna	*Milwaukee*
Runkel, Lura Mylinda	*Reeseville*
Rush, Alice Mary	*Black River Falls*
Russell, Charles William l s	*Flandreau, S. Dak.*
Russell, George Howard	*Ft. Wayne, Ind.*

Russell, Mary Vangel a	*Madison*
Rusten, Ruth Pauline	*Eau Claire*
Ruth, Mary Ann	*Horton, Kans.*
Ruth, Edith Johannah l s	*Superior*
Rutherford, William Thomas l s	*Milwaukee*
Rutter, Mary Lee l s	*Richland Center*
Ryan, Cecilia Agnes	*St. Louis, Mo.*
Ryan, Margaret H.	*Chateaugay, N. Y.*
Ryan, Mary Margaret	*Chicago, Ill.*
Ryan, Michael Jerome	*Kaukauna*
Ryan, Molly L.	*Chateaugay, N. Y.*
Rygh, Edgar Andrew l s	*Madison*
Rysdorp, Jeannette Katherine	*Grand Haven, Mich.*
Samuels, Agnes Helen l s	*Madison*
Sander, Esther Adele	*Fond du Lac*
Sander, Leone Frances	*St. Louis, Mo.*
Sanders, Paul Philip Mu	*Madison*
Sands, Clara Esther	*Highland Park, Ill.*
Sannes, Hans Didrik l s	*Madison*
Sannicola, Anna Sophie	*Eveleth, Minn.*
Sargis, Samson George e	*Madison*
Saris, Lucile Alicia l s	*Beloit*
Sawyer, William Merrill l s	*Madison*
Scanland, Kathryn Belle	*Selma, Ohio*
Scarcliff, Hazel Vivian	*Holden, Mo.*
Schacht, Hildegarde Lydia	*Racine*
Schaefer, Viola Velma	*Milwaukee*
Schaffner, Henrietta l s	*Mt. Pleasant, Iowa*
Schalk, Ella Martha	*Berlin*
Schaper, Dorothy l s	*Milwaukee*
Schar, Mabel May	*Glenshaw, Pa.*
Schaub, Carl Frederick	*Marion*
Schermerhorn, Emily R.	*Madison*
Schilling, Ethel Florence	*Green Bay*
Schindler, John Albert l s	*New Glarus*
Schleck, Leo Peter	*Madison*
Schleman, Herbert Spencer l s	*Valparaiso, Ind.*
Schlomovitz, Elias Herman l s	*Milwaukee*
Schlosser, Francis Frederick	*Hudson*
Schlosser, Gladys Marguerite	*Gilby, N. Dak.*
Schmidt, Arno John l s	*Davenport, Iowa*
Scmidt, Edna Harriet	*Milwaukee*
Schmidt, Esther Louise	*Naperville, Ill.*
Schmiege, Herbert John l s	*Appleton*
Schmitt, Eugene Henry l s	*Milwaukee*
Schmus, Mary Ellen	*Chicago, Ill.*
Schneider, Bertha J.	*St. Louis, Mo.*
Schneider, Charles Samuel l s	*Beloit*
Schneider, Frieda Diska P.	*Milwaukee*
Schneider, Irene Magdalene	*Kansas City, Mo.*
Schneller, Lucille Amber l s	*Arcadia*
Schneyer, Oscar L.	*Prairie du Chien*
Scholten, Adrian Herman l s	*Valley Springs, S. Dak.*

Schoolfield, Lula May	*Evansville, Ind.*
Schroeder, Henry Frederich l s	*Milwaukee*
Schubert, Clarence Karl Frederick l s	*Madison*
Schuette, Donald Hentscher l s	*Manitowoc*
Schuh, Margaret Carnegie	*Cairo, Ill.*
Schuh, Mary Alberta	*Cairo, Ill.*
Schulman, George	*New York, N. Y.*
Schultheiss, Ruth Eliza	*Fort Wayne, Ind.*
Schulthess, Lena Pauline	*Horton, Kans.*
Schultz, Catherine Elizabeth	*Oak Park, Ill.*
Schulz, Irwin Paul l s	*Milwaukee*
Schulz, Marguerite Lucille	*Madison*
Schutz, George J., Jr. l s	*Shawano*
Schweiger, Leo Joseph l s	*Cashton*
Schwenn, Bertha Jane l s	*Madison*
Scobie, Nellemary	*Plainfield*
Scott, Alice Lillian	*Chicago, Ill.*
Scott, Margretta	*St. Louis, Mo.*
Scott, Mary Porter Ashe	*St. Louis, Mo.*
Scripps, Margaret E.	*Rushville, Ill.*
Seegar, Nellie	*Forest Park, Ill.*
Seegar, Ruth Helen l s	*Manitowoc*
Sehon, Elizabeth Lewis l s	*Louisville, Ky.*
Seidel, Margaret Hulda	*Kansas City, Mo.*
Seids, John William, Jr. l s	*Moline, Ill.*
Seman, Anne Marie	*Granton*
Semmelmeyer, Lillian Adella	*Chicago, Ill.*
Seybold, Erwin George l s	*Forest Junction*
Shafer, Helen Frances	*West Allis*
Shaidnagle, Helen Frances l s	*Milwaukee*
Shambaugh, Howard Miller	*Fort Wayne, Ind.*
Sharp, Margaret Jacques	*Poseyville, Ind.*
Shauger, Esther	*Marion*
Shaw, D. Lee l s	*Delavan*
Shaw, Joseph	*Watertown, Mass.*
Shaw, Robert Eustice	*Dixon, Ill.*
Shea, Julia Agatha	*Juneau*
Sheldon, Eleanor Pray	*Madison*
Shelhammer, John Wesley l s	*Blackwell*
Shelp, Margaret Isabelle	*Rhinelander*
Shepard, Isabel	*Gautier, Miss.*
Shepherd, Walter R.	*Platteville*
Sherburne, Anita	*Madison*
Sherburne, Beatrice l s	*Madison*
Sherman, Howard Cole l s	*Grand Rapids, Mich.*
Sherman, L. Booth	*Winnetka, Ill.*
Shevling, Elsie May	*Nisland, S. Dak.*
Shippen, Mary Ann l s	*Louisville, Ky.*
Shirey, Hazelbelle l s	*Madison*
Shockey, Franklin Perry l s	*Oak Park, Ill.*
Shoop, Edwin Perrill	*Washington Court House, Ohio*
Short, Fred	*River Falls*

Short, Robert Wright	*Elkhart, Ind.*
Shoup, Verner Rood	*Colorado Springs, Colo.*
Shuber, John David	*Davenport, Iowa*
Shumway, Burr Robert	*Milton*
Shuttleworth, Saadi Sappho	*Madison*
Sichler, Margaret X. l s	*Madison*
Siebert, Walter Joseph	*St. Louis, Mo.*
Siefkin, Mae B.	*Wichita, Kans.*
Siefkin, Rachel Lie Van	*Wichita, Kans.*
Sieux, Paul Yale	*Chicago, Ill.*
Sillar, Anne l s	*Plainfield, Ill.*
Simonson, Marion	*Tomah*
Simpson, Alexander Lewis l s	*Shullsburg*
Simpson, Elizabeth Parkinson	*Albuquerque, N. Mex.*
Sinagub, Jacob J. l s	*Madison*
Sinaiko, Edith E. l s	*Madison*
Sinaiko, Isabel Jean l s	*Madison*
Sinaiko, Leila l s	*Madison*
Singleton, Thomas	*Milwaukee*
Sires, Claire Mildred	*Superior*
Sisson, Curtis Francis	*Milwaukee*
Sisson, Roy J.	*Prairie du Sac*
Sister Mary Alexandre	*Madison*
Sister Mary Benita	*Sinsinawa*
Sister Mary Elaine Hegeman	*Racine*
Sister Mary Generose Thies	*Racine*
Sister Mary Jane Shilling	*Racine*
Sister Mary Joan Doyle	*Racine*
Sister Mary Leona Sexton	*Madison*
Sister Marie Louise	*Madison*
Sister Maria Loughrin	*Sinsinawa*
Sister Mary Pacsol Mullen	*Sinsinawa*
Sister Mary Patrick O'Donoghue	*Bloomington, Ill.*
Sister Mary Petra Hovey	*Bloomington, Ill.*
Sister Mary Pierre l s	*Faribault, Minn.*
Sister Rinaldo Donehue	*Madison*
Sister Mary Serena Reynolds	*Madison*
Sister Mary Timothy	*Madison*
Sister Thaddeus King	*Madison*
Sister Mary Virginia	*Sinsinawa*
Slade, Doris	*Rochester, Minn.*
Slade, Katherine H.	*Washington, D. C.*
Smart, Annie l s	*Madison*
Smiley, Florence Ida l s	*Albany*
Smith, B. Arthur	*Sullivan, Ill.*
Smith, David William l s	*Milton*
Smith, Dudley William l s	*Madison*
Smith, Emma Esther	*Grand Rapids*
Smith, Floyd	*Menasha*
Smith, Frood Paul l s	*Dodgeville*
Smith, Halsey Weir l s	*Marshalltown, Iowa*
Smith, Hazel Roena	*Silver Creek, N. Y.*
Smith, Herbert Harold l	*Milwaukee*

Smith, Jefferson Franklin	*River Falls*
Smith, Lewis Pettebone l s	*Chicago, Ill.*
Smith, Lulu Belle	*Milwaukee*
Smith, Margeret McDonald	*Madison*
Smith, Nellie Lenington	*Macomb, Ill.*
Smith, Raymond McClay	*Biwabik, Minn.*
Smith, Ruth Carol	*Wauwatosa*
Smith, Stanton Kinnie	*Rockford, Ill.*
Smith, Vida Violet	*Mondovi*
Smither, Florine	*Huntsville, Tex.*
Smoot, Lida L.	*Kansas City, Mo.*
Snaddon, George Hutton	*Madison*
Snashall, Hylva Evelyn l s	*Janesville*
Snider, Elizabeth	*Davenport, Iowa*
Snider, Margaret Theora	*Columbus, Ohio*
Snyder, Esther L.	*Madison*
Snyder, Grace Opal l s	*Rockford, Ill.*
Soecknick, Elsa Lucie	*St. Louis, Mo.*
Sollitt, Lincoln Abbott l s	*Chicago, Ill.*
Sowden, Anna Gertrude	*Detroit, Mich.*
Sowerby, Barbara Avis	*Irving, Mich.*
Sowerby, Lillie	*Irving, Mich.*
Sowerby, Ola Emma	*Greenville, Mich.*
Spaulding, Juniet Walker l s	*Princeton, Ill.*
Sperling, Hugo Ernst	*Sheboygan*
Spiegel, Modie Joseph, Jr.	*Kenilworth, Ill.*
Spiker, Irene	*Gary, Ind.*
Sponberg, Ruth Marion	*Chicago, Ill.*
Springhorn, Rita	*Racine*
Stafford, Grace May	*Chicago, Ill.*
Stahl, Ethel Esther	*Sheridan, Ind.*
Stam, Blanche Elvira	*Mt. Hope*
Stamm, Walter Albert l s	*Dillon, Mont.*
Stanbery, Frank Deming	*Dallas, Tex.*
Standeford, Ifa Doran	*Sparta*
Stauffer, Frances Evelyn	*New London, Minn.*
Stearns, Dana Preston l s	*Mason City, Iowa*
Steele, Richard Wilson	*Oak Park, Ill.*
Steiger, Emil Lee l s	*Madison*
Steiger, Sophie Orth l s	*Madison*
Stellar, Florence	*Chicago, Ill.*
Stenjem, Inez Wilhelmina l s	*Madison*
Stensby, Mildred Beatrice	*Mt. Horeb*
Stenson, Carrie Agnes	*Bruce*
Stephen, Raymond James	*Malcolm, Iowa*
Stephens, Leonard Thomas	*New Richmond*
Stern, Louise	*Green Bay*
Stevenson, Elsie Mable	*Marinette*
Stevenson, Katherine Tonsey	*Indianapolis, Ind.*
Stevning, Emma Gertrude	*Stephen, Minn.*
Stewart, James Jewell l s	*Madison*
Stewart, Janette Joan	*Bruce*
Stewart, John Demuth e	*Waukegan, Ill.*

Stewart, Kathryn Elouise	*Cedar Rapids, Iowa*
Stewart, Marjorie	*Cincinnati, Ohio*
Stewart, William James, Jr.	*Kansas City, Mo.*
Stickling, Nora Benedicta	*Elgin, Ill.*
Stites, Archer Cochrane l s	*Webster Groves, Mo.*
Stivers, Grace Helen	*Dayton, Ohio*
Stocker, Alice	*Highland, Ill.*
Stoddard, Clara Beatrice	*Detroit, Mich.*
Stoddard, Neal H.	*Downing*
Stone, Florence	*Houston, Tex.*
Stondall, Helen l s	*Madison*
Storbraaten, John Herbert	*Madison*
Stork, Mary Elizabeth l s	*Madison*
Stout, Richard Harding l s	*Indianapolis, Ind.*
Stowell, Esther l s	*Peoria, Ill.*
Stratton, Otillie K.	*Indianapolis, Ind.*
Streissguth, Carl Edward	*Milwaukee*
Strevey, James Paul	*Washington Ct. H., Ohio.*
Strope, Loyd Morton l s	*Madison*
Strossman, Marion Rae	*Aurora, Ill.*
Struck, Louis Alfred l s	*Onalaska*
Stucki, John Calvin l s	*Black River Falls*
Stuebner, Roland William	*St. Joseph, Mo.*
Stutz, Elsa Helen	*Louisville, Ky.*
Stutz, Tekla Eunice	*Oconto*
Stuve, Almyra Lillian	*Humbird*
Summers, Stuart	*Omaha, Nebr.*
Sumner, Edward Culver	*Milford, Ill.*
Sumner, Lulu Tracy	*Lincoln, Nebr.*
Sundt, Guy Merrill l s	*Stoughton*
Sutliff, Wheelan Dwight l s	*Rhinelander*
Sutton, Henry Francis	*Green Bay*
Swan, Mary Florence l s	*Wauwatosa*
Swancutt, Ida Estelle l s	*Sioux Falls, S. Dak.*
Swanson, Ida Christine	*Marinette*
Swartz, Edith Lillian	*Sidney, Ill.*
Swayze, Minnie Eldora	*Kansas City, Mo.*
Swenholt, Casper l s	*Madison*
Swenson, Ruth Florence	*Chicago, Ill.*
Swetil, Ellen Marion l s	*Milwaukee*
Swiggum, Mary Elmira	*Blanchardville*
Sylvester, Walter H. l s	*Wauwatosa*
von Szeliski, Victor Spartan l s	*Madison*
Tafel, Olga Alma l s	*Louisville, Ky.*
Taylor, Adeline	*La Crosse*
Taylor, Beatrice	*Pittsburgh, Pa.*
Taylor, Everett Bailey	*Miamisburg, Ohio*
Taylor, Franklin Sylvester	*Montmorenci, Ind.*
Taylor, John Leveridge	*Mt. Vernon, N. Y.*
Teare, Dorothy Grace l s	*Monmouth, Ill.*
Telfer, Mary L.	*New York, N. Y.*
Tennant, Dorothy Drew	*Lake City, Minn.*
Terrell, Frances Ellen l s	*Indianapolis, Ind.*

Teschner, Paul August l s, m	*Milwaukee*
Tetzlaff, Glynden Stelzer	*Mishicot*
Thauer, Richard Clarence l s	*Watertown*
Thayer, Myron Alden	*Rockford, Ill.*
Theisen, George Dewey l s	*Green Bay*
Thibeault, Mary Louise	*Ashland*
Thiehoff, Eldred Victor	*Monroe City, Mo.*
Thistlewood, Geraldine	*Cairo, Ill.*
Thollehaug, Lola Lusk	*Sissiton, S. Dak.*
Thoma, Matilda	*Chicago, Ill.*
Thomas, Charles Archibald l s	*La Crosse*
Thomas, James Roy	*Loyal*
Thomas, Marion Rebecca	*Norristown, Pa.*
Thompson, Agnes Myrtle	*Roadhouse, Ill.*
Thompson, Annie	*Michigan City, Ind.*
Thompson, Emma	*Fergus Falls, Minn.*
Thompson, Helen Irene l s	*St. Croix Falls*
Thompson, Justin Reginald l s	*Madison*
Thompson, Lucille Carolyn	*Chicago, Ill.*
Thompson, Troy Melvin l s	*Madison*
Thorkelson, Mary Elizabeth l s	*Madison*
Thorngate, Myra Willametta	*Exeland*
Thornton, David Howard l s	*Atchison, Kans.*
Thornton, Tommye Taylor	*Collierville, Tenn.*
Tiedeman, Leonard Paul l s	*Madison*
Tiegs, Edith Howard l s	*Madison*
Tillisch, M. Ravn l s	*Merrill*
Tobey, Gladys Ezzie	*Niagara Falls, N. Y.*
Tobey, Paul Titus l s	*Wausau*
Tochterman, Alta Mina	*Monroe*
Toepfer, Margaret Louise a	*Madison*
Toepfer, Raymond August l s	*Madison*
Tomlinson, Helen l s	*Eau Claire*
Torbet, James Allen l s	*Madison*
Totten, Helen Ruth	*Washington, Kans.*
Toule, Emma Honore	*Green Bay*
Townsend, Hubert Force l s	*Hot Springs, Ark.*
Trainor, Stella Elizabeth l s	*Madison*
Trautman, Milton l s	*New Richmond*
Trebus, Alice C.	*San Antonio, Tex.*
Trewartha, Glenn Thomas l s	*Hazel Green*
Trewartha, Jane Evangeline	*Hazel Green*
Trewyn, Bryant Hooper	*Palmyra*
Trostel, Erna L.	*Milwaukee*
Turner, Beatrice Chouteau l s	*St. Louis, Mo.*
Turner, James Lyman	*Red Oak, Iowa*
Upson, Carl Archibald l s	*Madison*
Van Gent, Paul l s	*Madison*
Van Haagen, Gertrude	*Milwaukee*
Van Natta, Jesse Allan	*Phillips*
Van Tassel, Richard Julian	*Whitehall*
Van Wagoner, Esther Ellen l s	*Pontiac, Mich.*
Van Weelden, Harriet	*Grand Haven, Mich.*

Vaughan, Cecilia Mary	*Eyota, Minn.*
Vaughn, Hazel	*Spearfish, S. Dak.*
de la Vega, Emma Louisa	*Omaha, Nebr.*
Vernon, Mabel Dorothy	*Kenosha*
Vezina, John Charles	*Ellsworth*
Vickers, Lola Virginia	*Huntington, W. Va.*
Viergutz, Fred H.	*Marion*
Vignola, Anna Antonette	*Chicago, Ill.*
Vingom, Clair Odin l s, m	*Cleio, Mont.*
Vlach, Albert Wattawa l s	*Kewaunee*
Voelker, Margaret Ida l s	*Wahpeton, N. Dak.*
Volez, Irma Irene	*Milwaukee*
Vogel, Albert Otto	*Milwaukee*
Vogel, Samuel Alexander	*Superior*
Volk, Minna Louise	*Columbus, Ohio*
Vollmar, Clarence Joseph	*La Crosse*
Vorlop, Hugo Joseph	*Reedsburg*
Voss, Wesley August l s	*Beloit*
Wacek, William Harold l s	*Madison*
Waddell, John Frank	*Evansville*
Wagner, Gladys Irene l s	*Madison*
Waite, Philip Clawson l s	*Oshkosh*
Wakeman, Arthur Goodhue	*Oshkosh*
Waldo, May Lillian	*Chicago, Ill.*
Walecka, Alois	*Kewaunee*
Walker, Alfred E. l s	*Hinsdale, Ill.*
Walker, Margaret Arthur	*Jasonville, Ind.*
Walker, Margaret Ruth l s	*Almond*
Walley, Gertrude Ethel	*Kansas City, Mo.*
Wallschlaegen, Arno Henry	*Manitowoc*
Walsh, Helena T.	*Buffalo, N. Y.*
Walsh, Lillian Isabella	*St. Louis, Mo.*
Walsh, Richard James	*Milwaukee*
Walters, Grace	*West Lafayette, Ind.*
Walther, Herman Oscar l s	*Madison*
Walvoord, John Garrett	*Sheboygan*
Wang, King Siu	*Shantung, China*
Ward, Lavilla Amelia	*Grand Rapids, Mich.*
Ward, Leonora	*Exeter, Ill.*
Ward, T. Lane l s	*Madison*
Ware, Archibald Shephard	*Bryan, Tex.*
Ware, Maynie	*Huntington, W. Va.*
Warren, Margaret Helen	*Tomah*
Warren, R. Wadsworth	*Detroit, Mich.*
Wasser, George Seaton	*Cleveland, Ohio*
Watson, Gerald Ellsworth	*Poynette*
Watson, Julie Courtenay l s	*Duluth, Minn.*
Watson, Robert Dean	*Aurora, Ill.*
Watson, Thomas John l s	*Madison*
Waugh, Susan Jane Lee	*Chicago, Ill.*
Webb, J. Henrietta	*South Park, Minn.*
Webb, Muriel Elizabeth	*Eaton, Ohio*
Weber, Charlotte	*Jersey City, N. J.*

Weber, Mabelle Ruth	*Troy Center*
Weber, Minnie A.	*Cleveland, Ohio*
Webster, Emma Wallace	*Kansas City, Mo.*
Webster, Henrietta	*Milwaukee*
Webster, Lillah Marie	*Milwaukee*
Wedel, Olivia Amor	*St. Louis, Mo.*
Weed, Amanda Irene	*Schenectady, N. Y.*
Weeks, George Edward l s	*Davenport, Iowa*
Wegner, Henry Carl l s	*Oconto*
Wehle, Alex Francis	*West Bend*
Weihe, Raymond G. l s	*Milwaukee*
Weiland, Louis Emil	*Westby*
Weiler, Carroll l s	*Madison*
Weiler, Rosina Dorothy	*Madison*
Weiner, Natalie Eva	*New York, N. Y.*
Weingaertner, Erna	*Belleville, Ill.*
Weinhoff, John Francis	*Hales Corners*
Weinke, Ernest Albert	*Merrimac*
Weinke, Oscar Arnold l s	*Ripon*
Weinman, Regina Gertrude	*Neenah*
Weisser, Helen	*Topeka, Kans.*
Weitermann, Carl Earl l s	*Kenosha*
Wells, Pearl Blanche	*Cleveland, Ohio*
Welsh, Helen Joan	*Ashland*
Wendt, Ethel Florence	*Menomonee Falls*
Wenig, Edna Mae	*Inwood, Iowa*
Wenz, Leonard Arthur	*Watersmeet, Mich.*
Werner, Victoria Lydia l s	*Oshkosh*
Werrill, William Alexander l s	*Janesville*
West, Ray Dayton	*Menominee, Mich.*
Westaby, Annie Mary	*Manison, So. Dak.*
Westendarp, Dorothy Emma l s	*Coldwater, Mich.*
Weston, Frank Lawrance l s	*Mason City, Iowa*
Whaley, Regina Estelle	*Benton*
Wheeler, John Edward	*Columbus*
Wheeler, Mary	*Freeport, Ill.*
White, Charles R.	*Hillsboro*
White, Clara Isabel	*Essex, Ill.*
White, Edith Dakota	*Ashland*
White, Kate Alice	*Essex, Ill.*
White, Wallace Beacher l s	*Burlington*
Whitehill, Helen Margaret	*Indianapolis, Ind.*
Whitelaw, Leroy Nathaniel	*Douglaston, L. I., N. Y.*
Whiteman, May Clare	*Burlington, Iowa*
Whitlock, Robert Laird	*Gettysburg, S. Dak.*
Whitney, Beryl E. l s	*Madison*
Whittemore, Dora	*Webster Groves, Mo.*
Whittingham, Garth Lynden	*Arpin*
Whittington, Dorothy Echel	*Akron, Ohio*
Wickenden, Gertrude Warth l s	*St. Louis, Mo.*
Wieben, Anella Marie l s	*Milwaukee*
Wied, Elizabeth Christiana	*Waupaca*
Wieg, Ella L.	*Lake Mills*

Wiesler, Earle Hunt	*Cedarburg*
Wiggam, Winifred l s	*Emporia, Kans.*
Wilber, Martha Lee l s	*St. Louis, Mo.*
Wilcox, Ada Louise	*Tallaporsa, Ga.*
Wilcox, Russell A. l s	*Horicon*
Wildish, Harriet Ruth	*Milwaukee*
Wilhelm, Clara Margaret	*Marshfield*
Wilke, Louise Viola	*Sheboygan*
Wilkens, Alice Rasteller l s	*Fort Wayne, Ind.*
Wilkins, Anna Louise	*Erie, Pa.*
Wilkinson, Anne Edna l s	*Spring Green*
Willey, Maud	*Mead, Nebr.*
Williams, Della Anna	*Ridgeway*
Williams, Elizabeth G.	*Milwaukee*
Williams, Ethel Catherine	*Racine*
Williams, Harvey Sinclair	*Austin, Tex.*
Williams, Lucy Monica	*Racine*
Williams, Porter Ackerman l s	*Estherville, Iowa*
Williams, Sallie Rebecca	*Quincy, Ill.*
Willis, Ruth Evalyn	*Manhattan, Kans.*
Wilson, Ann	*Madison*
Wilson, E. Louise Astle	*Chicago, Ill.*
Wilson, Rowena Angie	*Portland, Ind.*
Wilson, Sanford Vaughters	*Abrams*
Wilson, Vera Gabrielle	*Portland, Ind.*
Winckler, Katherine l s	*Madison*
Winship, Amy D.	*Madison*
Winslow, Mary Isabel l s	*Madison*
Witbeck, Mary Louise	*Belvidere, Ill.*
Witt, Chester Ross	*Greencastle, Ind.*
Wittkop, Norman Lorenz l s	*Hartford*
Wochos, Louis Henry	*Bloomington*
Wolf, Lorelle Arthur l s	*Madison*
Wolfram, Herbert Edward l s	*Watertown*
Wolters, Joseph Theodore	*Two Rivers*
Wood, George Emory l s	*Cottage Grove*
Woolard, Jessie Campbell	*Wauwatosa*
Woolard, Margaret Campbell	*Wauwatosa*
Wormser, Beatrice Elizabeth	*New York, N. Y.*
Worthington, Jane Kathryn l s	*Madison*
Wright, Dorothy Page l s	*Webster Groves, Mo.*
Wright, Grace Kathleen	*Indianapolis, Ind.*
Wright, Samuel Clough l s	*Winona, Minn.*
Wurth, Walter l s	*Madison*
Wyckoff, Mildred Emma	*Madison*
Yahr, Anna Amelia	*Unity*
Yahr, Mayme Louise	*Unity*
Yates, Margaret Devine Mu	*Waco, Tex.*
Yoakum, Grace	*Oxford, Ind.*
Young, Adelbert	*Colby*
Young, Eliza Bennett	*Louisville, Ky.*
Youngclause, Margaret Isabel	*Janesville*
Youngman, Wilbur Hughes	*Champaign, Ill.*

Youngquist, Seth Charles	*Florence*
Zander, Berenice Augusta	*Two Rivers*
Zenses, Jeanne	*Manitowoc*
Zeunert, Gertrude Mary	*Cedarburg*
Ziegenhagon, Fred W.	*West Allis*
Ziemann, Arthur Herman	*Bloomer*
Zimmerman, Beulah Worthley l s	*Fremont, Ohio*
Zimmerman, Gerhard E.	*Sheboygan*
Zimmerman, Gretchen Anna	*Reedsburg*
Zimmerman, Louise Clare	*Madison*

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Music

Astle, Charlotte Lillian	*Momence, Ill.*
Bachhuber, Romana Marguerite	*Mayville*
Bareis, Naomi Marie Mu	*Madison*
Brewer, Constance Bernice l s	*Argyle*
Buckmaster, Sada Eleanor l s	*Madison*
Chisholm, Victoria Elizabeth Mu	*Madison*
Connole, M. Gertrude	*De Witte, Iowa*
Crocker, Alta Seeber	*Spooner*
Davey, Inez Isabelle	*Eveleth, Minn.*
Duncan, Erma Leona Mu	*Madison*
Dwight, Dorothy Marguerite l s	*Madison*
Eager, Grace Munsinger	*Ames, Iowa*
French, Grace	*Patoka, Ind.*
Glynn, Maude Elizabeth	*Superior*
Gordon-Smith, Alice Victoria Mu	*Montclair, N. J.*
Gravenbrock, Florence	*Fennimore*
Gregg, Erma Lylas	*Decorah, Iowa*
Gruner, Vera Gilda	*St. Louis, Mo.*
Hayes, Frances Josephine	*Andover, Ohio*
Heldt, Marguerite Newell	*Glendo, Wyo.*
Hoppmann, Mary Agnes	*Superior*
Hunt, Rhea l s	*Barronette*
Isaacson, Inez May	*Spring Valley*
Jones, Grace Mildred Mu	*Yonkers, N. Y.*
Kershaw, Kate Therese	*Wauwatosa*
Kershaw, Vera Naomi	*Fennimore*
Knaup, Naomi Astha Mu	*Beaver Dam*
Knight, Gladys Mary Mu	*Mazomanie*
Longaker, Duane	*Madison*
McCormick, Hazel Charlotte	*Fennimore*
McDaniel, Anabelle Mu	*Madison*
McDermott, Lucile Elizabeth	*Virginia, Minn.*
Marsh, Jane Luella	*Stevens Point*
Mitchell, Olive Edith Mu	*Madison*
Oestreich, Caroline Mu	*New London*
Oldridge, Erle Leslie	*Indianapolis, Ind.*
Osborn, Donald Burt Mu	*Madison*
Petersen, Max Heinrich, M. A. l s	*Madison*
Powers, Thracilla Anne Mu	*Mauston*
Rhodes, Vivian Mu	*Galesville*

Ruder, Paula Louise	*Wausau*
Schostak, Minnie Violet	*Milwaukee*
Seitz, Harry William	*Henry, Ill.*
Shearer, Eleanor Constance l s	*Madison*
Sister Mary Felicita Mu	*Madison*
Sister Rose Marie	*Madison*
Stark, Anna Lydia	*Madison*
Steuber, Ester Lillian Mu	*Prairie du Sac*
Stodola, Frances Henrietta	*Chicago, Ill.*
Sumption, Myra Rebacca Mu	*Kendallville, Ind.*
Taylor, Dorothy	*Pittsburgh, Pa.*
Taylor, Eva Minerva l s	*Lancaster*
Tillotson, Mary Elizabeth Mu	*Waupun*
Walker, Lloyd	*Madison*
Wang, Gladys Loraine	*Shell Lake*
Watson, Alice Ruth	*Flat River, Mo.*
Wattawa, Virginia, B. A.	*Madison*
Wheeler, Belle Grigson	*Athens, Ga.*
White, Sarah Kellogg	*St. Joseph, Mo.*
Whiting, Florence Lillian Mu	*Berlin*
Winsor, Ella Mu	*Mauston*
Zimmerman, Marguerite Marie	*Kansas City, Mo.*
Zini, Dora Beatrice	*Eveleth, Minn.*

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Engineering

Affleck, Herbert J. e	*Muscoda*
Aiken, Howard Hathaway e	*Madison*
Ames, Kenneth Shirley e	*Kenosha*
Andrews, Frank Monroe	*Dundee, Ill.*
Armstrong, Almer	*Ridgeville, Ind.*
Auby, Lawrence Copeland e	*Madison*
Austermann, Richard Wagner e	*Madison*
Avery, Norman Kirk e	*Peoria, Ill.*
Bachhubor, Hugo C. l s	*Mayville*
Bailey, Harry Hayden	*Madison*
Baker, James Stannard e	*Amherst, Mass.*
Baldridge, Ernest Barker	*Dayton, Ohio*
Barnes, Ernest M. e	*Madison*
Bartels, William Carl e	*Sheboygan*
Barth, Karl Peter e	*Madison*
Becker, Arthur William, Jr.	*St. Louis, Mo.*
Benham, Morton M.	*Clay City, Ind.*
Bergman, Miles Joseph	*Bank River, Mich.*
Bespalow, Eugene Frederich e	*Chicago, Ill.*
Biersach, Herbert Frank e	*Milwaukee*
Bille, Harold W. e	*Marshfield*
Birkenwald, Emil S. e	*Milwaukee*
Blau, Herman Adolph	*Washington, D. C.*
Bohn, Donald Ivan e	*Madison*
Brady, Harry William	*Peoria, Ill.*
Braun, Alvin Charles	*Milwaukee*

Breuer, Orval William e	*Manitowoc*
Brinck, Arne e	*Christiania, Norway*
Broker, Harvey Raymond e	*Chilton*
Browne, William George e	*Racine*
Bruden, Clifford O. e	*Eau Claire*
Buckingham, Lyman Everett e	*Ludington, Mich.*
Burnett, John Joseph e	*Milwaukee*
Buseth, Sverre Allen e	*Deerfield*
Butterman, Ernest e	*Chicago, Ill.*
Cafferty, Neil G. e	*Madison*
Caldwell, Earl Leroy e	*Indianapolis, Ind.*
Campbell, Claude Wesley e	*Beloit*
Charlton, Alexander Richard e	*Milwaukee*
Christensen, Harold Lund e	*Berlin*
Christianson, Carl Bernard e	*Stevens Point*
Cirves, Frank Herman e	*Madison*
Clark, Manley Haynes	*Hanford, Wash.*
Coddo, William Elmer e	*Antigo*
Coleman, Edwin D. e	*Barron*
Coleman, Frederick George	*Madison*
Collins, Sidney Raymond e	*Reedsburg*
Congdon, Claire Cressey e	*Delavan*
Cox, Edward Lorenz e	*Madison*
Crabb, Florence Katherine	*Grand Rapids, Mich.*
Crawford, Harry Arnold	*E. Peoria, Ill.*
Cretney, Robert Wesley e	*Madison*
Crider, Harold Elmer e	*La Crosse*
Davies, Clinton William	*Racine*
Davis, Russell Gardiner e	*Milwaukee*
Desmond, John Thomas e	*Boscobel*
Eastman, Albert Reyner	*Rockford, Ill.*
Ellis, Asher Robert e	*Madison*
Elpers, Wendell Herman	*Fort Branch, Ind.*
Enders, LeRoy Louis e	*Delafield*
Erickson, Howard Lyle l s	*Madison*
Erickson, William Ernest e	*Madison*
Evanson, Henry Bernard e	*Mt. Horeb*
Farwell, Knight Dick e	*Chicago, Ill.*
Fensel, Alden Charles	*Milwaukee*
Fessler, Albra Henry	*Elkland, Pa.*
Flom, Mervin Obert e	*Madison*
Ford, Henry Michael e	*Janesville*
Frain, Jacob Frank	*Williamsport, Pa.*
Frater, George Gordon	*Elkhorn*
Garber, Leslie Harold e	*Diamond Bluff*
Garrity, Leo Valentine	*Hudson*
Geiger, George e	*Milwaukee*
Germond, Hallett Hunt e	*Madison*
Gibson, Harley Louis e	*Madison*
Giddings, William Werner e	*Madison*
Gladden, Alfred Howard	*Madison*
Graham, William Carleton	*Dodgeville*
Greenslade, Irving Jones	*Milwaukee*

Greer, Leslie Howard	*Lane, So. Dak.*
Gregg, Scranton Hugh e	*Milwaukee*
Griswold, Frank Lynn	*Madison*
Gross, George Harrison e	*York, Pa.*
Gruppe, Alfred Henry	*West Allis*
Guenther, Felix Gustav Herman e	*Port Washington*
Gustin, Glen Hudson e	*Wautoma*
Haas, Alfred Oscar	*Milwaukee*
Hamblen, Jennings Bryan e	*Franklin, Ind.*
Hanley, Edward Vincent e	*Milwaukee*
Hann, Fred Roderick, Jr.	*McFall, Mo.*
Hanson, Malcolm Parker e	*Milwaukee*
Hanson, Paul Edward e	*Mondovi*
Harbaugh, Marion Dwight e	*Kansas City, Mo.*
Harris, Robert Austin e	*Oak Park, Ill.*
Hart, Bernard Ellis	*College Station, Ark.*
Harvey, Lyle Clifford e	*Oconto*
Hawkins, Raymon Nelson e	*Madison*
Head, Guerdon Herbert e	*Platteville*
Henke, Herbert Frank e	*Watertown*
Henrichsen, Christian Brun e	*Bergen, Norway*
Henricks, Gunahr Bruen e	*Madison*
Hentzen, Herbert Dick e	*Milwaukee*
Hiestand, Francis Hall	*Madison*
Hildebrandt, Herbert C. e	*Milwaukee*
Hinkley, Elroy Hall	*Milton Junction*
Hoff, Carl Johan Reinhardt e	*Kristiania, Norway*
Holmburg, Harold Albrecht	*Madison*
Howes, Merwin Hayden, Jr. e	*South Milwaukee*
Hyer, Frank Perry e	*Whitewater*
Ingli, Anthony Wayne	*Ellsworth*
Isdahl, Einar e	*Bergen, Norway*
Jenson, Gerhard Olaus	*Edgerton,*
Johnson, James, Jr. e	*Wauwatosa*
Johnson, Norman L. e	*New Ulm, Minn.*
Jones, Everett Ward e	*Fond du Lac*
Kalvelage, Clemens	*Milwaukee*
Kanard, Leonard John e	*La Crosse*
Kelly, Daniel Sheldon Whipple e	*Pierre, S. Dak.*
Kelly, Pennell Clarke e	*Fort Atkinson*
Klement, Elmore Fred e	*Fort Atkinson*
Knapp, Harold Clark e	*Milwaukee*
Koenecke, Paul Martin e	*Reedsburg*
Koenz, Alfred Samuel	*Jefferson*
Kools, William	*Appleton*
Kroncke, Earl Alfred	*Madison*
Kuehn, Edwin Emil	*Alma*
Kurtz, Chester Mott e	*Milwaukee*
Lamb, Kenneth Ellsworth e	*Waterloo, Iowa*
Larsen, Bernard Marvin e	*Hayward*
Larson, Carl Frethaf e	*Florence*
Lee, Marshall McLean e	*Oak Park, Ill.*
Lenck, Arthur Roy e	*Milwaukee*

Light, Robert Ferguson	*Dayton, Ohio*
Livingston, Penn P. e	*Elk Mound*
Longenecken, Ernst Abraham e	*Neillsville*
Loranger, Paul Davis l s	*Janesville*
Lovelers, Myers Ralph	*Warren, Ohio*
Loverud, Earl K.	*Stoughton*
Lu, Chia-Chun e	*Peking, China*
McKaig, Willard Hulick e	*Long Branch, N. J.*
McLenegan, David Wallace e	*Milwaukee*
McMurron, Marshall J. e	*Madison*
McNamara, Edward John e	*Superior*
Maiers, Joseph Adam e	*Platteville*
Manning, Willis L. e	*Madison*
Mansfield, Herbert Stanley e	*Okauchee*
Margoles, Harry e	*Milwaukee*
Mathes, Anton	*Brussels*
Mead, Dayton Richard l s	*Marinette*
Medley, Harold P.	*Flushing, Ohio*
Metropaulos, Harry Peter	*Chicago, Ill.*
Michael, John Hadji e	*Pyrgos, Samos, Greece*
Miller, Benjamin Lawrie e	*West Allis*
Miller, Karl Christensen e	*Oshkosk*
Mitchell, Malcolm e	*Beloit*
Moehlman, William Frederik, e	*Madison*
Mohr, Ernst John e	*Milwaukee*
Montgomery, Alvin Eugene e	*Evansville*
Morgan, James Allison	*Freeport, Ill.*
Moxon, Earl Robert e	*Stevens Point*
Nalbach, Roesch John e	*Moweaqua, Ill.*
Nash, Clyde Lester e	*Eau Claire*
Nash, George Walter	*Madison*
Newing, William Bowyer e	*Appleton*
Nogueira, Frederico Pupo e	*Canipina, T. Paulo, Brazil*
Nordstedt, Einar August e	*Joliet, Ill.*
Olson, Arthur Oliver e	*Madison*
Olson, Goldie Raymond e	*Preston, Minn.*
Owen, Griffith Evan	*Grand Rapids, Mich.*
Owens, Clair Hall	*Duluth, Minn.*
Pauly, John Otto	*Milwaukee*
Peirce, George Ashley	*Sioux City, Iowa*
Pesch, Anthony William e	*West Bend*
Peters, Charles Frederic	*Pepin*
Peterson, Sterling Doland e	*Milwaukee*
Pitzner, Alwin Frederick	*Johnson Creek*
Pollard, Millard Albert	*Lannon*
Pope, Frederick George e	*Ablemans*
Poppert, Russell Linstead	*Milwaukee*
Post, Foster Moore	*Le Mars, Iowa*
Posz, Howard Merle e	*Winona, Minn.*
Powell, Robert Bruette e	*Wausau*
Price, Elmer Ehlers e	*McComb, Miss.*
Puerner, Erving Alfred Frank	*Jefferson*
Rabuck, Arthur Jacob e	*Reedsburg*

Rafeld, Ernest A. e	*Green Bay*
Ramsay, Ralph Edwin e	*Beloit*
Rasmussen, Clarence Fisher e	*Park Falls*
Raube, Reinhold Henry e	*Waupun*
Rehfeld, Paul H. e	*Milwaukee*
Reuter, William Robert e	*Madison*
Rheingans, William Jacob	*Jackson*
Richter, Charles Frederic Rand e	*Milwaukee*
Riley, Timothy Harvey e	*Madison*
Roberts, Richard Alexander l s	*Chicago, Ill.*
Robertson, Richard Chamberlin e	*Milwaukee*
Rotter, Israel Irving e	*Milwaukee*
Rove, Olaf Norberg e	*Milwaukee*
Ryan, Joseph Edward e	*Janesville*
Sammond, Robert Saul e	*Milwaukee*
Samp, Arthur Martin e	*Cecil*
Sawtelle, Rolfe Bigelow e	*Madison*
Scadden, Francis Herbert Clive e	*Crystal Falls, Mich.*
Schaub, Reginald R. e	*Oconto Falls*
Schauer, Harry Albert	*Milwaukee*
Schmidt, Carlton Leonard e	*Avoca*
Schmitt, Francis Herman	*Milwaukee*
Schostak, Abraham William e	*Milwaukee*
Schubring, George Frederik e	*South Milwaukee*
Schumann, Robert Nicholas	*Madison*
Seder, Willard James e	*Milwaukee*
Shapiro, Leo Henry e	*Milwaukee*
Shaw, Ralph e	*La Crosse*
Shoemaker, Milton Jackson e	*Philadelphia, Pa.*
Simons, Fred Adams e	*Newtonville, Mass.*
Smith, Fred Gund	*Freeport, Ill.*
Snider, William Herbert	*Davenport, Iowa*
Spear, Byron Hoyt a	*Pardeeville*
Stegeman, Henry Randall e	*Ft. Thomas, Ky.*
Stephens, Leon Benjamin e	*Madison*
Strane, Archie Aber	*Marion, Iowa*
Striebel, Louis Daniel	*Michigan City, Ind.*
Striegl, Albert Rollin e	*Milton Junction*
Strom, Sverre e	*Drammen, Norawy*
Strong, Foster e	*Madison*
Strong, John Stoughton e	*Madison*
Swan, George Dewey	*Madison*
Switzer, Raymond Albert	*Madison*
Taylor, Daniel Gilman e	*Madison*
Taylor, John Andrus l s	*Yonkers, N. Y.*
Teodoro, Anastasio L.	*Los Banos, P. I.*
Terry, Ralph Hooper e	*Madison*
Thessin, Paul George e	*Milwaukee*
Thompson, Gilman A.	*Mt. Horeb*
Traiser, Louis Martin e	*New Richmond*
Troup, Robert Cameron	*Buffalo, N. Y.*
Vobach, Arnold Charles e	*Madison*
Wangenstein John Stuart l s	*Duluth, Minn.*

Wegner, Karl Harold e	*Wausau*
Wehmhoff, Elmore Bernard	*Burlington*
Welch, Halbert Austin	*Oconomowoc*
Westmont, Oscar B. e	*Beloit*
Wiegmann, Albert Fred	*Quincy, Ill.*
Wilkins, Robert Alvin	*Livingston*
Williams, Clarence Michael l s	*Madison*
Williams, Clement H. e	*Elkhart Lake*
Willson, C. Ardry e	*Madison*
Wu, Wei Chou e	*Shensi, China*
Yapp, Clinton R. l s	*Madison*
Zaumeyer, Robert John e	*Milwaukee*
Zimmerman, Wallace Raymond e	*Beaver Dam*
Zuege, David Clarence	*Milwaukee*

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Agriculture

Adams, Elmer James	*Spring Valley*
Adams, Paul Gilbert	*Princeville, Ill.*
Ahrens, Harvey Gerald a	*Two Rivers*
Amundson, George a	*Rio*
Anderson, Dorothy Dee	*Valparaiso, Ind.*
Anderson, Lawrence Wortendyke a	*Norwalk, Ohio*
Arnold, Gladys Beryl	*Fennimore*
Atherton, Charles Ross	*Indianapolis, Ind.*
Babcock, Elizabeth a	*Rock Island, Ill.*
Baker, Oscar Roland a	*St. Croix Falls*
Barker, Ruth Sumner	*Portland, Me.*
Bevins, Sophia	*Adrian, Mich.*
Blanchard, Faye Evangeline	*Ironton*
Bliesner, Cora Augusta	*Spring Valley*
Bollinger, John Romeo a	*Cochrane*
Boza, Ezeta Alfonso	*Champaign, Ill.*
Brandon, William McKinley	*Mazomanie*
Brightman, Elizabeth Adella	*Columbus, Ohio*
Bronson, Hazel Adeline	*La Crosse*
Brooks, Mildred Louisa a	*Ft. Atkinson*
Brown, Maynard Wilson a	*Great Falls, Mont.*
Burdick, Erna Dudey	*Milton*
Byrns, Elmer Dennis a	*Madison*
Campillo, Fred Julio	*Nogales, Ariz.*
Casis, Pedro Antonio a	*Bogota, Colombia*
Chambers, Margaret Jane a	*Steubenville, Ohio*
Chappell, Alice Myrl a	*Trempealeau*
Chen, Tsai-Chun	*Chekiang, China*
Christie, Martha Elizabeth	*Superior*
Clarke, Ruth Lee	*Frankfort, Ky.*
Clay, Carey Field	*Paris, Ky.*
Coleman, Harriet Corinne	*Palmyra, Ill.*
Cook, Alonzo Charles	*Montfort*
Cook, Olive Louise	*West Salem*
Corvin, Blanche Gertrude	*Bluefield, W. Va.*

Cragwall, Sarah Elizabeth a	*Crawfordsville, Ind.*
Crawford, Lida Mary	*Lincoln, Kans.*
Cristy, Jay Walter	*Waupaca*
Crosby, George Sumner a	*Hampton, Va.*
Crow, Thomas William	*Platteville*
Danks, Sue	*Patoka, Ind.*
DeMoss, Stavros Evthemy	*Canton, Ohio*
DeVilbiss, Laurinda May	*Fort Wayne, Ind.*
DeVries, Arnold John a	*Lake Geneva*
Dickson, James Geere	*Madison*
Dillon, Fred Griffian a	*Mondovi*
Doyle, Martin Dewey	*Menomonie*
Driggs, Florence Louise	*Saginaw, Mich.*
Duffin, Laurel Ardien	*Whitewater*
Duffy, Walter Aloysius	*Ashland Junction*
Emmert, Hazel Margaret a	*Chicago, Ill.*
English, Donald John a	*Wyocena*
Farnam, Mary a	*La Crosse*
Farrington, Edgar George a	*Mondovi*
Fay, Martha Kathryn	*Bethany, Mo.*
Finch, Dorotha May	*Cleveland, Ohio*
Fix, Margaret Dorothea a	*Madison*
Flasher, Oneta Richey	*Shelby, Ohio*
Foote, Josaphine Agnes a	*Hartford*
Forrest, Nellie a	*Poynette*
Gaffney, Edward James	*Madison*
Gebhard, Clara Mabel	*Wausau*
Gedney, Bessie Mae	*East St. Louis, Ill.*
Godkin, James a	*Shelton, Conn.*
Green, Constance	*Holyoke, Mass.*
Hanousek, John Joseph a	*Antigo*
Hanan, Lucile	*Oregon*
Hannant, Olive Marisco	*Perry, Ill.*
Hanson, Alvin Howard	*Milwaukee*
Hanson, Mildred Aileen	*Milwaukee*
Hargitt, Clara Belle	*Aurora, Ind.*
Harris, Gladys L.	*Memphis, Tenn.*
Hartman, William Albert a	*Wauwatosa*
Hein, Elizabeth May	*North Freedom*
Helberg, Harriet Guinoir	*Madison*
Henninger, Susie Jane	*Iola, Kans.*
Hill, John Orenzo	*Rockton*
Hoard, William Dempster a	*Fort Atkinson*
Hock, Mildred Lillian a	*Huntington, Ind.*
Hodgson, Mary Elsie a	*Mazomanie*
Hsu, Chen-Chou a	*Hongchow, China*
Hughes, Idrys Oralend a	*Platteville*
Inch, Rheta Marion	*Woodstock, N. B., Can.*
Jensen, Kittie Willet	*Waupaca*
Johnson, Gustavus Emil a	*Boyceville*
Johnson, Katherine Prince	*Portland, Me.*
Keller, Sophia a	*Milwaukee*
Kingsley, Mildred Alma a	*Chicago, Ill.*

Kirk, Alice Jeanette	*Madison*
Knilans, Edith Helen	*Whitewater*
Kopietz, Teresa Marie a	*Omaha, Nebr.*
Kosanke, Laura	*Kouts, Ind.*
Kozelka, Adolph William a	*Mishicot*
Kozelka, Frank Ludwig a	*Mishicot*
Kresge, Violet a	*Green Bay*
Kutil, Clarence L.	*Seymour*
Lampman, Clifford Elmer a	*Arena*
Larkin, Alice Cecilia	*Whitewater*
Leeby, Constance	*Fargo, N. Dak.*
Leitzell, Kathryn Rebecca a	*Benton*
Lincoln, Rose Minnie	*Marshalltown, Iowa*
Lu, Hsieh-Chu l s	*Kiangan, China*
McConnell, Kenneth a	*Sparta*
McConnell, Mary Hester	*East Radford, Va.*
McCoy, Alice Adele	*Estherville, Iowa*
McGee, Mary Annette	*Gladstone, Mich.*
McIlroy, Glen Wilson a	*Oshkosh*
Macklem, Sarah Helen	*Beloit*
Madison, Ruth	*Bowling Green, Ky.*
Mahorney, Florence a	*Crawfordsville, Ind.*
Makinson, Amy Waugh l s	*Madison*
Marshall, Treva Marie	*Fort Wayne, Ind.*
Marty, Louise Margaretha a	*Brodhead*
Massey, George F.	*Walworth*
Mather, Myra	*Joliet, Ill.*
Matheson, Elizabeth C.	*Grand Rapids, Mich.*
Meacham, Elmer Reynolds	*Downing*
de Mendonca, Ruy Prado a	*New York, N. Y.*
Mereness, Aliee Hazel a	*Madison*
Metz, Marie Antonette a	*Madison*
Meyers, Emma Jane	*St. Louis, Mo.*
Milum, Vern G. a	*Viola*
Mohr, Charles Alan a	*Madison*
Morris, Elsie Pearl	*Salem, Ind.*
Mungavin, Katherine Leonissa	*Superior*
Murray, Helen Hyacintha a	*Madison*
Napiecinski, Angeline Rose	*Two Rivers*
Naset, Beulah Silverwood	*Madison*
Neelen, Robert B. a	*Milwaukee*
Nelson, August a	*Madison*
Nelson, Barcello Maia	*Pelotas, Brazil*
Nelson, Elmer Martin a	*Madison*
Nimlos, Johnson Montgomery a	*Madison*
Noel, Mary Frances	*Kansas City, Mo.*
O'Brien, Isabella	*Avoca*
O'Connor, George McGregor a	*Hancock*
Oestreich, Lorena Elizabeth a	*New London*
Opsahl, Stanley Owen	*Viroqua*
Oskamp, Edith Marie	*Wyoming, Ohio*
Owsley, Charlotte	*Denton, Tex.*
Paddack, Claire	*Wyoming, Ohio*

Pallett, Earl Manley a	*Fennimore*
Pallett, Ray	*Fennimore*
Pan, Chai-Yuan a	*Chengtu, China*
Parkinson, Myra	*Madison*
Pettit, George R.	*New London*
Pfeifer, Ruth Adaline a	*Columbus, Kans.*
Phillips, Alice Emma	*Gary, Ind.*
Pittard, Catherine Florence	*St. Paul, Minn.*
Pittard, Katherine Vivian	*Sioux City, Iowa*
Preiser, Rosa Christina	*St. Louis, Mo.*
Randolph, Anita Winifred	*Tama, Iowa*
Randolph, Dorothy	*Huntsville, Tex.*
Reineking, Florence	*Milwaukee*
Reyes, Peter	*San Vamito, D. F., Mex.*
Rieck, Mildred Aileen a	*Chicago, Ill.*
Robertson, Esther Mildred a	*Horicon*
Robinson, Carl Louis a	*Tripoli*
Roetzer, Alfred George	*Milwaukee*
Rowland, William a	*New Brunswick, N. J.*
Runkel, Clay Orson a	*Madison*
Ryall, Ernest V.	*Madison*
Rybolt, Edna	*Decatur, Ill.*
Salter, Elisabeth M.	*Unity*
Sater, I. Adella	*Helena, Mont.*
Sato, Atsushi a	*Miyagiken, Japan*
Sawyer, Marion Florence	*Muskegon, Mich.*
Scherf, Clara Elizabeth	*Green Bay*
Schlotthauer, Carl Frank	*Madison*
Schmolze, Dorothy a	*Chicago, Ill.*
Schwartzberg, Ben	*Chicago, Ill.*
Scofield, Harriet Louise a	*La Crosse*
Scott, Cornelius Chapman, Jr.	*Madison*
Seeber, Vivian Adelaide a	*Houghton, Mich.*
Shaw, Theodora	*Wichita, Kans.*
Shearer, Mary Josephine a	*Winfield, Iowa*
Shepard, Myrtle Lucille	*Kansas City, Mo.*
Sherman, Helen Julia a	*Appleton*
Shoup, Jennie Ellen	*Mulvane, Kans.*
Slatery, Florence Eleanora	*St. Louis, Mo.*
Slocum, Burl Alva a	*Eau Claire*
Smith, Edward Magruder a	*Chicago, Ill.*
Smith, Vera Sarah	*Kalamazoo, Mich.*
Soper, Clarice Maud	*Ogdensburg*
Souza, Paulo Cuba	*Sao Paulo, Brazil*
Stam, Ira Webster	*Markesan*
Stauss, Walter C. a	*Thiensville*
Stein, Walter Philip a	*Milwaukee*
Stewart, Eleanor	*Patoka, Ind.*
Stover, Wilmer Garfield a	*Columbus, Ohio*
Straubel, Minnie Octavia a	*Green Bay*
Swanson, Anna	*Wilson*
Tarrant, Lydia	*Durand*
Thomas, Robert Cole a	*Sheboygan Falls*

Thompson, F. Louise a	*Madison*
Tiedjens, Victor Alphons a	*Marinette*
de Toledo, Alfreda Alver a	*Behedouro, Saa Paulo, Brazil*
Tucker, Elizabeth Irby	*Bowling Green, Ky.*
Tyler, Vera Vivian a	*Mellen*
Uhl, Allan Philip	*Galesville*
Van Brimer, Elizabeth Leah	*Pueblo, Colo.*
Van der Riet, Clement Mervyn a	*Stellenbosch, S. Africa*
Van Ermen, Marie Antoinette	*Green Bay*
Verthien, Jerome l s	*Middleton*
Wade, Tom Wilton	*Kenton, Tenn.*
Walsh, Charles Earl a	*Madison*
Warren, Olive May	*Spearfish, S. Dak.*
Weeks, Christina Mary a	*Chilton*
Weiffenbach, Rosetta Ann	*Bellaire, Mich.*
Weslow, Joseph A.	*Green Bay*
White, Cecil Everett a	*Beaver Dam*
Whitson, Selena Margaret	*Portage*
Widdows, Nellie Lucille	*Newman, Ill.*
Williams, Guy P.	*Oconto*
Wilson, Alice Anderson	*Louisville, Ky,*
Wilson, Dora E.	*Jonesboro, Ind.*
Wilson, Jessie a	*Burlington*
Wisner, Grace Irene	*Merrill*
Wisnicky, Walter a	*Madison*
Woolery, Lucy Castle	*Pasadena, Cal.*
Wright, Dorothy Elizabeth	*Columbus, Ohio*
Wright, Isabel Lucile a	*Webster Groves, Mo.*
Yoemans, C. Louise a	*Minot, N. Dak.*
Young, Robert Archer	*Madison*
Zaffke, Ben F. a	*Greenwood*
Zellmer, Robert G. a	*Oshkosh*

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Law

Beckwith, David Van Walker l	*Madison*
Bennett, Harry Percival B.A.	*Meacerville, Mont.*
Beyer, Adelbert John, M.A. l s	*Madison*
Blinston, Ruth Mary l s	*La Crosse*
Blume, Henry Marten John l s	*Milwaukee*
Boardman, Newell Stephen B.A. l	*New Richmond*
Bradford, Alfred Stevans l	*Appleton*
Buelow, Earl Francis, B.A. l	*Waupun*
Burmeister, Roy Frederick, B.A. l	*Gratiot*
Dean, Harry C. l	*Glenwood City*
Doll, William De Berge, B.A. l	*Milwaukee*
Emmert, Donald Underwood	*Martinsburg, W. Va.*
Engelhard, Aloysius John l	*La Crosse*
Fuchs, Harry Sigmund	*Janesville*
Geffs, George Stricklett	*Madison*
Godfrey, Edwin Samuel, B.A.	*Waupaca*

Goldsmith, Norton Lambert, B.A.	*Louisville, Ky.*
Goodman, Leo John	*Kendall*
Grady, Emory Lester, M.C.S. l	*Watertown*
Greenwood, Claude l	*Green Bay*
Grubb, Kenneth Philip	*Mauston*
Harrington, Richard	*Oshkosh*
Hewitt, Mary A., M.A.	*Madison*
Hicks, Charles Virgil	*Ann Arbor, Mich.*
Hodgins, Gerald B.	*Madison*
Hough, Roscoe Rhodes	*Wellsburg, W. Va.*
Jenks, Walter Thomas l	*Platteville*
Johnson, William Nash	*New Orleans, La.*
Johnson, Guy Arthur, B.A. l	*Suring*
Johnston, Joseph Henry l	*Janesville*
Kearns, Edward Peter, B.A. l	*Madison*
King, Marvin Stephen, B.A. l	*Arena*
LaFollette, Phil., B.A. l	*Madison*
Lappley, Gilbert Frost	*Madison*
Lichtenwalner, Roy P. l s, l	*Monroe*
Liu, Van Hai l s	*Suchow, China*
Lowry, Howard James l	*Colfax*
Markus, Norbert W. l s	*Quincy, Ill.*
Molzow, Reinhold l	*Beaver Dam*
Monk, Floyd J. l	*Neillsville*
Nelson, Frederick Washington, B.A. l	*Racine*
Nichol, Harold Clyde	*Ames, Iowa*
Noer, Harold Rolf, B.A. l s	*Wabeno*
Omernik, Edward Edmond	*Spooner*
Palmer, Arlo Wheeler, B.A.	*Malcolm, Iowa*
Perry, Donald Moore l s	*Black River Falls*
Peterson, Carl Edwin, B.A. l s	*Menomonie*
Porteius, William Alexander, Jr.	*New Orleans, La.*
Powers, Patrick Gerald, Ph.B. l	*Mauston*
Rasmussen, Vilas Lenor, B.A. l	*Ixonia*
Roberts, David Webster	*Superior*
Robinson, Harry William	*La Crosse*
Rogers, Alfred Moore, B.A. l	*Chicago, Ill.*
Rohr, Charles Davis, B.A. l	*Burlington*
Rosenberg, Edwin Louis	*Milwaukee*
Rosenblum, Harry Maurice l	*Terre Haute, Ind.*
Rothermel, John Grim, B.A.	*Reading, Pa.*
Runge, Herman Carl l	*Shebaygan*
Schlabach, Rudolph M., B.S. l	*La Crosse*
Schultz, Emil Otto	*La Crosse*
Spengler, Silas Llewellyn, B.A. l	*Menasha*
Staidl, Stanley Anton	*Shawano*
Sutherland, Robert Jome l	*Madison*
Sweeney, Charles Victor	*Edgerton*
Thurwachter, Raleigh Holmes l	*Madison*
Tillema, John Albert, B.A.	*Morrison, Ill.*
Waller, Theodore Adolph l	*Madison*
Wehmhoff, Rowland Henry, B.A. l	*Burlington*
Whelan, Allen l	*Madison*

Wilbert, Gustave C.	*Thiensville*
Wiley, Robert Le Roy l	*Chippewa Falls*
Wurster, Carlyle Barton l	*Mazomanie*

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Library

Bibby, Gwynifred Jane, B.A.	*Galesville*
Brown, Margaret Charlotte	*Fulton, Mo.*
Burdick, Hannah Shaw	*Salem, W. Va.*
Burrows, Marian Elizabeth l s	*Warren, Ill.*
Butz, Dorothy	*Wilmette, Ill.*
Caspers, Ole Hilmar	*Grantsburg*
Cone, Hattie Belle	*Marshall*
Davidson, Lois Craig, B.A.	*Minneapolis, Minn.*
Duel, Gertrude, B.A.	*Fond du Lac*
Farnsworth, Lucile, B. A.	*Salt Lake City, Utah*
Franklin, Isabel Frances	*Oxford*
Gordon, Loma Ann	*Two Rivers*
Griswold, Lucy, B.A.	*Horicon*
Gullord, Elizabeth Rosena	*Madison*
Haight, Margaret Mary, B.A.	*Montfort*
Hathaway, Annette Almeda	*Davenport, Iowa*
Holstad, Mildred Harriet, B. A.	*Northfield, Minn.*
Larsen, Olga Rebecca, B.A.	*Mauston*
Lee, Margaret Irene, B.A.	*Madison*
Liner, Mabel Margaret	*Brandon*
Luckey, Ruth Campbell, B.A.	*Madison*
McClanahan, Bessie Bell, B.A.	*Arlington, Tex.*
McMahon, Dorothy	*Lancaster*
Marsh, Hannah, B.A.	*Waupun*
Mercier, Mildred Anna	*Lima, Ohio*
Mishoff, Willard Oral, B.A.	*Mt. Carmel, Ill.*
Mohn, Anna Elizabeth, B.A.	*Northfield, Minn.*
Nolte, Louise	*Davenport, Iowa*
O'Brien, Stella Ruth, B.A.	*Iron River, Mich.*
Peckham, Winifred Lay	*Janesville*
Pugh, Mary Elizabeth, B.A.	*Racine*
Schafer, Ruby, Ph.B.	*Chilton*
Schmidt, Elsie Florence, B.A.	*Wauwatosa*
Severance, Jeanne	*Garden City, Kans.*
Warner, Fanny, B.L.	*Windsor*
Wright, Millie Alice	*Barron*

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STATISTICAL SUMMARIES

GRADUATES

		1920
Number of first degrees granted, 1854–1920	15,208	869
Present Courses:		
Courses leading to the degree of Bachelor of Arts, 1904–1920	5,384	513
(Included in the above is the Course in Commerce, 1904–1920, 736; 1920, 113; and the Course in Journalism, 1914–1920, 92; 1920, 30.)		
Course for Normal School Graduates, Ph.B., 1898–1920	593	21
General Course, Ph.B., 1917–1920	24	9
Chemistry Course, B.S., 1909–1920	166	34
Physical Education Course, B.S., 1920	1	1
Medical Science Course, B.S., 1909–1920	275	34
Pharmacy Course, B.S., 1895–1920	64	3
Pharmacy Course, Ph.G., 1884–1920	369	14
Bachelor of Music, B.M., 1917–1920	21	10
Course for Supervisors of Music, 1910–1920	105*	7*
Course in Agriculture, B.S., 1878–1920	886	69
Home Economics Course, B.S., 1909–1920	363	51
Course in Agriculture (Middle Course), Ag.G., 1910–1920	159*	14*
Course in Home Economics (Two Yr. Course), Ag.G., 1920	2*	2*
Law Course, LL.B., 1869–1920	2,100	27
Civil Engineering Course, B.S., 1876–1920	719	24
Mechanical Engineering Course, B.S., 1876–1920	533	21
Electrical Engineering Course, B.S., 1892–1920	656	16
Chemical Engineering Course, B.S., 1903–1920	147	15
Mining Engineering Course, B.S., 1910–1920	45	7
Courses discontinued:		
Ancient Classical Course, B.A., 1854–1903	470	
Modern Classical Course, B.L., 1876–1903	548	
English Course, B.L., 1887–1903	459	
Civil Historical Course, B.L., 1893–1903	383	
General Science Course, B.S., 1886–1903	722	
Geology Course, B.S., 1914	1	
School of Music, M.G., 1898–1916	134	

*Not included in totals.

School of Commerce (B.L., 8; B.S., 1), 1902–1903	9	
Normal Course, 1865–1868	25	
Metallurgical Engineering Course, B.M.E., 1876–1896	16	
General Engineering Course, B.S., 1901–1910.	95	
Higher Degrees on Examination, 1875–1920	2,647	229
Master of Arts, M.A., 1879–1920	1,219	111
Master of Letters, M.L., 1879–1903	97	
Master of Science, M.S., 1879–1920	481	58
Engineer, 1879–1920	350	5
Master of Pharmacy, M.Pharm., 1903	1	
Master of Agriculture, M.Agr., 1893	1	
Master of Philospohy, M.Ph., 1879–1920	50	5
Master of Public Health, 1915–1916	4	
Doctor of Public Health, 1912–1915	2	
Doctor of Philosophy, 1892–1920	442	50

DEGREES

Number of first degrees granted, 1854–1920		15,208
Bachelor of Arts, 1854–1920	5,854	
Bachelor of Philosophy, 1898–1920	617	
Bachelor of Letters, 1876–1903	1,398	
Bachelor of Science, 1873–1920	4,674	
Bachelor of Metallurgical Engineering, 1876–1896	16	
Bachelor of Laws, 1869–1920	2,100	
Bachelor of Music, 1917–1920	21	
Graduate in Music, 1896–1916	134	
Graduate in Pharmacy, 1884–1920	369	
Graduate in Agriculture (Middle Course), 1910–1920	161*	
Normal Course, 1865–1868	25	
Course for Supervisors of Music, 1910–1920	105*	
Higher Degrees on Examination, 1875–1920		2,647
Masters, 1879–1920	1,853	
Engineer, 1879–1920	350	
Doctor of Public Health, 1912–1915	2	
Doctor of Philosophy, 1892–1920	442	
Grand Total of First and Higher Degrees granted, 1854–1920		17,855

HONORARY DEGREES

Doctor of Letters	2	
Doctor of Laws	86	
Master of Arts	1	
Doctor of Sciences	9	
Doctor of Literature	3	
Civil Engineer	4	
Total, Honorary Degrees		105

*Not included in totals.

FACULTY

	Men	Women	Total
President and Deans	9	1	10
Professors	123	1	124
Associate Professors	69	4	73
Assistant Professors	132	33	165
Lecturers (giving part time)	32	1	33
Instructors	247	71	318
Assistants (mainly half time, but a few more than half time, and a considerable number less than half time)	147	66	213
Student Assistants (small part of time)	41	14	55
Total	800	191	991

The above summary includes:

a. Members of the instructional staff at Madison, both for resident instruction and for extension.

b. Extension workers throughout the state.

c. Administrative officers and librarians having the rank of any member of the instructional staff.

Included in the above summary are the following who are on leave of absence for the academic year 1920–21:

Professors	3	0	3
Associate Professors	1	1	2
Assistant Professors	4	0	4
Instructor	0	1	1
Total	8	2	10

STUDENTS

Summary by Classes

	Men		Women		Total
GRADUATE SCHOOL—					
College of Letters and Science	270		147		417
College of Engineering	25		0		25
College of Agriculture	99		28		127
School of Music	0		1		1
		394		176	570
SENIORS—					
College of Letters and Science	433		392		825
College of Engineering	149		0		149
College of Agriculture	120		60		180
Law School, Third Year	33		1		34
School of Music	1		11		12
		736		464	1,200

	Men	Women	Total	
JUNIORS—				
College of Letters and Science	554	465	1,019	
College of Engineering	264	0	264	
College of Agriculture	94	58	152	
Law School, Second Year	51	1	52	
School of Music	0	11	11	
		963	535	1,498
SOPHOMORES—				
College of Letters and Science	702	466	1,168	
College of Engineering	345	0	345	
College of Agriculture	155	66	221	
Law School, First Year	57	0	57	
School of Music	2	40	42	
		1,261	572	1,833
FRESHMEN—				
College of Letters and Science	854	614	1,468	
College of Engineering	426	2	428	
College of Agriculture	139	86	225	
School of Music	0	37	37	
		1,419	739	2,158
SPECIAL STUDENTS—				
College of Letters and Science	60	31	91	
College of Engineering	18	0	18	
College of Agriculture	26	4	30	
Law School	18	0	18	
School of Music	3	4	7	
		125	39	164
STUDENTS IN L. & S. ELECTING LAW STUDIES—				
Graduate	1	0	1	
Seniors	11	0	11	
Juniors	3	0	3	
		15	0	15
UNCLASSIFIED STUDENTS (School of Music)		3	19	22
MEDICAL SCHOOL—				
Graduates	15	7	22	
Seniors	67	8	75	
Juniors	62	2	64	
		144	17	161
WISCONSIN LIBRARY SCHOOL—				
Seniors	0	2	2	
Juniors	0	1	1	
Unclassified Students	0	26	26	
		0	29	29

	Men	Women	Total	
GRAND TOTAL Regular Year....	5,060	2,590	7,650	
Twice counted.....	159	20	179	
NET TOTAL Regular Year.....	4,901	2,570	7,471	
SUMMER SESSION of 1920.....	1,614	1,972	3,586	
Twice counted.....	748	382	1,130	
	866	1,590		2,456
VOCATIONAL SCHOOL.....	268	0	268	
Twice counted.....	166	0	166	
	102	0		102
SHORT COURSE IN AGRICULTURE—				
Short Course.....	354	6	360	
Winter Dairy Course.....	95	0	95	
	449	6		455
GRAND NET TOTAL (excluding Extension)	6,318	4,166		10,484

Summary by Colleges

GRADUATE SCHOOL—			
Fellows.....	37	15	52
Scholars.....	15	14	29
Other Graduate Students.....	342	147	489
	394	176	570
(Not carried to totals because included in lists below.)			
COLLEGE OF LETTERS AND SCIENCE—			
Fellows.....	24	12	36
Scholars.....	8	10	18
Graduate Students.....	238	125	363
Seniors.....	433	392	825
Juniors.....	554	465	1,019
Sophomores.....	702	466	1,168
Freshmen.....	854	614	1,468
Adult Specials, Fourth Year...	1	1	2
Adult Specials, Third Year.....	4	3	7
Adult Specials, Second Year....	20	4	24
Adult Specials, First Year.....	35	23	58
	2,873	2,115	4,988

Enrollment by Courses:			
Course in Commerce:	Men	Women	Total
Seniors	171	26	197
Juniors	220	42	262
Sophomores	326	45	371
Freshmen	423	67	490
Adult Special, Fourth Year	1	0	1
Adult Special, Third Year	1	0	1
Adult Specials, Second Year	10	0	10
Adult Specials, First Year	12	1	13
	1,164	181	1,345
Course for Normal School Graduates:			
Seniors	13	20	33
Juniors	7	24	31
	20	44	64
Course in Journalism:			
Seniors	20	21	41
Juniors	23	22	45
Sophomores	33	29	62
Freshmen	36	48	84
Adult Specials, Third Year	3	0	3
Adult Special, Second Year	0	1	1
Adult Special, First Year	1	0	1
	116	121	237
Course in Pharmacy:			
Four Year Course:			
Seniors	2	1	3
Juniors	7	1	8
Sophomores	2	1	3
Freshmen	4	2	6
Adult Special, Second Year	1	0	1
Two Year Course:			
Second Year	28	3	31
First Year	27	4	31
Adult Special, Second Year	1	0	1
Adult Specials, First Year	4	1	5
	76	13	89
Course in Chemistry:			
Seniors	16	3	19
Juniors	29	9	38
Sophomores	23	4	27
Freshmen	14	8	22
Adult Special	1	0	1
	83	24	107

Course without Foreign Language Requirement:	Men	Women	Total
Seniors	11	0	11
Juniors	6	2	8
Sophomores	8	3	11
Freshmen	5	0	5
	30	5	35
School of Education:			
Fellows	1	1	2
Graduates	9	9	18
Seniors	19	101	120
Juniors	13	80	93
Sophomores	5	52	57
Freshmen	5	50	55
Adult Special, Third Year	0	1	1
	52	294	346

(One senior man is in both the School of Education and the course in Commerce; ten senior men, six senior women, seven junior men and six junior women are in both the School of Education and the Course for Normal School Graduates; three senior men, one junior man and one junior woman are in both the School of Education and the General Course; one senior man, one sophomore man, and one freshman woman are in both the School of Education and the Course in Journalism.)

Letters and Science Students not in Special Courses:			
Fellows	23	11	34
Scholars	8	10	18
Graduate Students	229	116	345
Seniors	181	220	401
Juniors	249	285	534
Sophomores	227	329	606
Freshmen	340	435	775
Adult Special, Fourth Year	0	1	1
Adult Specials, Third Year	0	2	2
Adult Specials, Second Year	8	3	11
Adult Specials, First Year	17	21	38
	1,332	1,433	2,765
COLLEGE OF ENGINEERING—			
Fellows	2	0	2
Scholars	2	0	2
Graduate Students	21	0	21
Seniors	149	0	149
Juniors	264	0	264
Sophomores	345	0	345
Freshmen	426	2	428
Adult Special, Fourth Year	1	0	1
Adult Specials, Third Year	2	0	2
Adult Specials, Second Year	6	0	6
Adult Specials, First Year	9	0	9
	1,227	2	1,229

Enrollment by Courses:	Men	Women	Total
Civil Engineering Course:			
Seniors	33	0	33
Juniors	49	0	49
Sophomores	63	0	63
Freshmen	104	1	105
Adult Specials, Second Year	4	0	4
	253	1	254
Mechanical Engineering Course:			
Seniors	28	0	28
Juniors	68	0	68
Sophomores	96	0	96
Freshmen	119	0	119
Adult Special, Third Year	1	0	1
Adult Specials, First Year	3	0	3
	315	0	315
Electrical Engineering Course:			
Seniors	38	0	38
Juniors	79	0	79
Sophomores	110	0	110
Freshmen	137	0	137
Adult Special, Fourth Year	1	0	1
Adult Special, Second Year	1	0	1
Adult Specials, First Year	4	0	4
	370	0	370
Chemical Engineering Course:			
Seniors	33	0	33
Juniors	46	0	46
Sophomores	54	0	54
Freshmen	39	1	40
Adult Special, Third Year	1	0	1
Adult Special, Second Year	1	0	1
Adult Special, First Year	1	0	1
	175	1	176
Mining Engineering Course:			
Seniors	17	0	17
Juniors	22	0	22
Sophomores	22	0	22
Freshmen	27	0	27
Adult Special, First Year	1	0	1
	89	0	89
COLLEGE OF AGRICULTURE—			
Fellows	11	3	14
Scholars	5	4	9
Graduate Students	83	21	104
Seniors	120	60	180
Juniors	94	58	152

	Men	Women	Total	
Sophomores	155	66	221	
Freshmen	139	86	225	
Adult Special, Fourth Year	1	0	1	
Adult Specials, Third Year	5	1	6	
Adult Specials, Second Year	4	0	4	
Adult Specials, First Year	16	3	19	
	633	302		935
Enrollment by Courses:				
Long Course:				
Fellows	11	1	12	
Scholars	5	2	7	
Graduate Students	83	12	95	
Seniors	120	1	121	
Juniors	94	5	99	
Sophomores	104	1	105	
Freshmen	82	2	84	
Adult Special, Fourth Year	1	0	1	
Adult Specials, Third Year	5	0	5	
Adult Specials, First Year	9	0	9	
	514	24	538	
Middle Course:				
Second Year	51	0	51	
First Year	57	2	59	
Adult Specials, Second Year	4	0	4	
Adult Specials, First Year	7	0	7	
	119	2	121	
Home Economics Course:				
Fellows	0	2	2	
Scholars	0	2	2	
Graduate Students	0	9	9	
Seniors	0	59	59	
Juniors	0	53	53	
Sophomores	0	57	57	
Freshmen	0	82	82	
Adult Special, Third Year	0	1	1	
Adult Specials, First Year	0	3	3	
Vocational Course:				
Second Year	0	8	8	
	0	276	276	
School of Education (included above):				
Graduate Student	0	1	1	
Seniors	13	43	56	
Juniors	2	8	10	
Sophomore	1	0	1	
Freshman	0	1	1	
Two Year Course:				
Second Year	6	1	7	
	22	54	76	

	Men	Women	Total	
LAW SCHOOL—				
Third Year	33	1	34	
Second Year	51	1	52	
First Year	57	0	57	
Special, Third Year	1	0	1	
Specials, Second Year	9	0	9	
Specials, First Year	8	0	8	
Students in Letters and Science electing law studies	15	0	15	
	174	2		176
MEDICAL SCHOOL—				
Second Year	54	10	64	
First Year	90	7	97	
	144	17		161
SCHOOL OF MUSIC—				
Four Year Course:				
Graduate Student	0	1	1	
Seniors	1	11	12	
Juniors	0	11	11	
Sophomores	0	22	22	
Freshmen	0	24	24	
Adult Special, Fourth Year	0	1	1	
Adult Specials, First Year	2	2	4	
Two Year Course:				
Second Year	2	18	20	
First Year	0	13	13	
Adult Special, Second Year	1	0	1	
Adult Special, First Year	0	1	1	
Unclassified Students	3	19	22	
	9	123		132
School of Education (included above):				
Four Year Course:				
Seniors	0	4	4	
Juniors	0	8	8	
Sophomores	0	4	4	
Freshman	0	1	1	
Adult Special, Fourth Year	0	1	1	
Two Year Course:				
Second Year	1	18	19	
First Year	0	11	11	
Adult Special, Second Year	1	0	1	
Adult Special, First Year	0	1	1	
	2	48	50	

Students in other colleges electing music—167.
Graduates, 17; Seniors, 22; Juniors, 34; Sophomores, 28; Freshmen, 45; Unclassified, 21.

	Men	Women	Total	
WISCONSIN LIBRARY SCHOOL—				
Library Course	0	26	26	
Joint Course	0	3	3	
	0	29		29
TOTAL	5,060	2,590	7,650	
Deducting twice enumerated	159	20	179	
NET TOTAL, REGULAR YEAR	4,901	2,570	7,471	

The item of 179 students twice enumerated occurs because of double classification in two colleges as follows:

Letters and Science and Medicine	142	17	159
Agriculture and Medicine	1	0	1
Letters and Science and Law	16	0	16
Letters and Science and Wisconsin Library School	0	3	3
	159	20	179

SUMMER SESSION OF 1920—				
College of Letters and Science:				
Graduate Students	290	464	754	
Undergraduates and Teachers	844	1,245	2,089	
College of Engineering:				
Graduate Students	3	0	3	
Undergraduates and Teachers	251	1	252	
College of Agriculture:				
Graduate Students	54	32	86	
Undergraduates and Teachers	94	132	226	
Law School	70	2	72	
School of Music:				
Graduate Students	0	5	5	
Undergraduates and Teachers (Students in other colleges electing music—100.)	6	57	63	
Library School	2	34	36	
	1,614	1,972	3,586	
Deducting students in attendance during the regular year	748	382	1,130	
	866	1,590		2,456

The 1,130 students in attendance during the regular year are classified as follows:

	Men	Women	Total	
College of Letters and Science:				
Graduate Students	67	29	96	
Undergraduates and Teachers	378	286	664	
College of Engineering:				
Undergraduates and Teachers	175	0	175	
College of Agriculture:				
Graduate Students	28	2	30	
Undergraduates and Teachers	55	39	94	
Law School	43	1	44	
School of Music:				
Undergraduates and Teachers	2	24	26	
Library School	0	1	1	
	748	382	1,130	
ADDITIONAL ENROLLMENT—				
College of Agriculture:				
Short Course in Agriculture:				
Second Year	133	1	134	
First Year	221	5	226	
	354	6	360	
Dairy Course	95	0	95	
	449	6		455
FEDERAL BOARD STUDENTS RECEIVING VOCATIONAL EDUCATION—				
College of Letters and Science:				
Graduate Students	2	0	2	
Undergraduate Students	84	0	84	
College of Engineering:				
Undergraduate Students	50	0	50	
College of Agriculture:				
Graduate Students	8	0	8	
Undergraduate Students	99	0	99	
Law School	17	0	17	
School of Medicine	8	0	8	
	268	0	268	
Deducting twice enumerated	166	0	166	
	102	0		102
GRAND TOTAL, EXCLUDING EXTENSION STUDENTS	6,318	4,166	10,484	

The 166 Federal Board Students twice enumerated are included above in the number of students for the regular year, and are classified as follows:

	Men	Women	Total
College of Letters and Science:			
Graduate Students	2	0	2
Undergraduate Students	71	0	71
College of Engineering:			
Undergraduate Students	31	0	31
College of Agriculture:			
Graduate Students	8	0	8
Undergraduate Students	30	0	30
Law School	16	0	16
School of Medicine	8	0	8
	166	0	166
EXTENSION DIVISION (EXTRA-MURAL COLLEGE)			
Correspondence-Study Department	13,353	5,322	18,675

This total enrollment comprises all those who have enrolled for correspondence instruction within the current year up to March 1st, and also those carried over who had enrolled prior to July 1st, 1920, 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

		Regular Year		Summer Session		Federal Board		Short and Dairy Courses		Totals		
		Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
1	Wisconsin	3710	1530	428	618	82	0	384	4	4604	2152	6756
2	Illinois	293	319	74	237	7	0	33	2	407	558	965
3	Indiana	80	86	51	89	2	0	3	0	136	175	311
4	Iowa	119	97	35	55	0	0	1	0	155	152	307
5	Missouri	37	64	32	108	2	0	0	0	71	172	243
6	Michigan	50	75	24	66	2	0	1	0	77	141	218
7	Ohio	41	41	27	88	0	0	0	0	68	129	197
8	Minnesota	69	55	23	33	0	0	1	0	93	88	181
9	South Dakota	73	27	15	14	0	0	1	0	89	41	130
10	Pennsylvania	27	28	12	35	0	0	0	0	39	63	102
11	New York	25	23	20	28	0	0	0	0	45	51	96
12	Kansas	11	21	6	42	0	0	0	0	17	63	80
13	Texas	20	4	16	20	0	0	0	0	36	24	60
14	Kentucky	18	12	4	20	0	0	0	0	22	32	54
15	North Dakota	15	22	7	6	0	0	3	0	25	28	53
16	Nebraska	10	13	6	22	0	0	0	0	16	35	51
17	Montana	19	12	2	8	0	0	1	0	22	20	42
18	Colorado	16	11	4	4	0	0	1	0	21	15	36
19	New Jersey	11	12	3	7	0	0	2	0	16	19	35
20	Tennessee	10	9	6	7	0	0	0	0	16	16	32
21	Massachusetts	6	11	6	7	1	0	0	0	13	18	31
22	District of Columbia	5	18	1	4	0	0	0	0	6	22	28
23	Oklahoma	9	8	3	6	1	0	0	0	13	14	27
24	California	10	9	0	5	0	0	2	0	12	14	26
25	Virginia	11	6	2	3	1	0	2	0	16	9	25
26	West Virginia	11	3	3	7	0	0	0	0	14	10	24
27	Mississippi	5	5	2	3	1	0	4	0	12	8	20
28	Maryland	6	2	1	9	0	0	0	0	7	11	18
29	Utah	3	2	2	8	2	0	1	0	8	10	18
30	Idaho	8	5	1	2	0	0	0	0	9	7	16
31	Washington	7	4	3	1	0	0	1	0	11	5	16

*No twice enumerated students are included in this table.

		Regular Year		Summer Session		Federal Board		Short and Dairy Courses		Totals		
		Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
32	Louisiana	3	6	3	1	0	0	2	0	8	7	15
33	Georgia	6	0	2	5	0	0	0	0	8	5	13
34	Alabama	3	2	0	5	0	0	0	0	3	7	10
35	Oregon	7	0	1	1	0	0	0	0	8	1	9
36	Arkansas	3	2	2	1	0	0	0	0	5	3	8
37	North Carolina	4	0	1	3	0	0	0	0	5	3	8
38	Arizona	1	1	4	0	0	0	1	0	6	1	7
39	Florida	2	1	1	2	0	0	0	0	3	3	6
40	Maine	2	0	1	3	0	0	0	0	3	3	6
41	Connecticut	3	0	0	1	0	0	1	0	4	1	5
42	New Hampshire	2	1	1	0	0	0	1	0	4	1	5
43	Wyoming	1	2	0	2	0	0	0	0	1	4	5
44	Delaware	1	2	0	1	0	0	0	0	1	3	4
45	New Mexico	2	1	0	1	0	0	0	0	2	2	4
46	Vermont	2	1	1	0	0	0	0	0	3	1	4
47	South Carolina	3	0	0	0	0	0	0	0	3	0	3
48	Nevada	0	0	0	1	0	0	0	0	0	1	1
49	Rhode Island	0	0	0	0	0	0	0	0	0	0	0
	Total, Uinted States	4780	2553	836	1589	101	0	446	6	6163	4148	10311
1	China	42	0	11	0	0	0	1	0	54	0	54
2	Norway	21	1	0	0	0	0	0	0	21	1	22
3	Philippine Islands	17	0	5	0	0	0	0	0	22	0	22
4	Canada	6	4	2	1	0	0	1	0	9	5	14
5	Japan	7	0	3	0	0	0	0	0	10	0	10
6	Brazil	4	0	4	0	0	0	0	0	8	0	8
7	India	4	0	2	0	0	0	0	0	6	0	6
8	South Africa	5	0	0	0	0	0	1	0	6	0	6
9	France	1	4	0	0	0	0	0	0	1	4	5
10	Hawaii	0	3	1	0	0	0	0	0	0	3	3
11	New Zealand	2	0	1	0	0	0	0	0	3	0	3
12	Peru	2	0	1	0	0	0	0	0	3	0	3
13	Argentina	2	0	0	0	0	0	0	0	2	0	2
	Chile	1	1	0	0	0	0	0	0	1	1	2
	England	1	1	0	0	0	0	0	0	1	1	2

	Regular Year		Summer Session		Federal Board		Short and Dairy Courses		Totals		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
16 Mexico	1	0	1	0	0	0	0	0	2	0	2
17 Porto Rico	1	1	0	0	0	0	0	0	1	1	2
18 Colombia	1	0	0	0	0	0	0	0	1	0	1
19 Greece	0	0	0	0	1	0	0	0	1	0	1
20 Iceland	1	0	0	0	0	0	0	0	1	0	1
21 Nova Scotia	0	1	0	0	0	0	0	0	0	1	1
22 Portugal	1	0	0	0	0	0	0	0	1	0	1
23 Santo Dominican Republic	0	1	0	0	0	0	0	0	0	1	1
24 Sweden	1	0	0	0	0	0	0	0	1	0	1
Total, Foreign Countries	121	17	30	1	1	0	3	0	155	18	173
GRAND TOTAL, UNITED STATES AND FOREIGN COUNTRIES	4901	2570	866	1590	102	0	449	6	6318	4166	10484

SUMMARY BY WISCONSIN COUNTIES*

Showing Sex, Attendance for Regular Year, Summer Session Only, Federal Board, and Short and Dairy Courses

County	Regular Year		Summer Session		Federal Board		Short and Dairy Courses		Total		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
Adams	2	1	1	0	0	0	1	0	4	1	5
Ashland	33	7	4	3	1	0	0	0	38	10	48
Barron	39	16	1	3	1	0	12	0	53	19	72
Bayfield	15	2	0	1	0	0	0	0	15	3	18
Brown	48	18	3	11	0	0	1	1	52	30	82
Buffalo	30	3	5	2	1	0	12	0	48	5	53
Burnett	3	0	1	0	2	0	6	0	12	0	12
Calumet	32	7	0	4	0	0	4	0	36	11	47
Chippewa	37	3	7	6	1	0	9	0	54	9	63
Clark	29	4	3	4	1	0	5	0	38	8	46
Columbia	57	22	5	4	0	0	10	0	72	26	98
Crawford	4	8	1	0	0	0	2	0	7	8	15
Dane	802	596	92	145	6	0	25	1	925	742	1667
Dodge	43	10	1	7	1	0	4	0	49	17	66
Door	30	5	1	1	1	0	2	0	34	6	40
Douglas	40	27	2	19	4	0	0	0	46	46	92
Dunn	20	3	5	5	0	0	5	0	30	8	38
Eau Claire	46	13	7	9	2	0	5	0	60	22	82
Florence	7	0	2	1	0	0	1	0	10	1	11
Fond du Lac	74	32	5	17	1	0	7	0	87	49	136
Forest	10	3	4	1	1	0	1	0	16	4	20
Grant	75	27	14	25	0	0	18	0	107	52	159
Green	35	16	2	6	2	0	5	0	44	22	66
Green Lake	16	9	2	4	1	0	4	0	23	13	36
Iowa	51	11	6	6	2	0	11	0	70	17	87
Iron	10	4	0	2	0	0	0	0	10	6	16
Jackson	21	7	0	4	0	0	6	0	27	11	38

*No twice enumerated students are included in this table.

County	Regular Year		Summer Session		Federal Board		Short and Dairy Courses		Total		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
Jefferson	82	29	11	7	2	0	11	0	106	36	142
Juneau	18	5	2	5	3	0	6	1	29	11	40
Kenosha	51	14	0	8	1	0	2	0	54	22	76
Kewaunee	23	2	3	0	0	0	5	0	31	2	33
La Crosse	71	28	4	13	2	0	2	0	79	41	120
LaFayette	30	21	2	5	0	0	1	0	33	26	59
Langlade	22	6	0	4	0	0	4	0	26	10	36
Lincoln	22	10	2	3	1	0	2	0	27	13	40
Manitowoc	47	24	10	12	1	0	12	0	70	36	106
Marathon	42	11	5	12	1	0	10	0	58	23	81
Marinette	29	7	3	5	1	0	4	0	37	12	49
Marquette	17	0	2	2	0	0	0	0	19	2	21
Milwaukee	539	177	59	69	9	0	6	0	613	246	859
Monroe	51	20	2	6	1	0	8	0	62	26	88
Oconto	29	1	3	4	1	0	6	0	39	5	44
Oneida	19	4	1	5	3	0	5	0	28	9	37
Outagamie	59	19	6	7	0	0	5	0	70	26	96
Ozaukee	22	1	4	1	0	0	2	0	28	2	30
Pepin	16	2	1	1	0	0	5	0	22	3	25
Pierce	11	6	11	6	1	0	2	0	25	12	37
Polk	24	3	2	0	1	0	6	0	33	3	36
Portage	21	2	4	7	0	0	3	0	28	9	37
Price	11	1	3	2	0	0	3	0	17	3	20
Racine	68	34	4	19	0	0	3	0	75	53	128
Richland	30	10	6	4	4	0	3	0	43	14	57
Rock	134	46	18	23	3	0	9	0	164	69	233
Rusk	9	4	0	3	2	0	2	0	13	7	20
Saint Croix	26	8	4	5	2	0	6	0	38	13	51
Sauk	54	32	7	15	2	0	13	0	76	47	123
Sawyer	2	0	2	1	0	0	1	0	5	1	6
Shawano	29	9	2	1	0	0	4	0	35	10	45
Sheboygan	78	13	10	9	2	0	9	0	99	22	121
Taylor	0	0	0	0	0	0	3	0	3	0	3
Trempealeau	37	12	5	4	0	0	8	0	50	16	66
Vernon	32	11	4	9	1	0	5	0	42	20	62
Vilas	3	0	0	2	0	0	0	0	3	2	5

County	Regular Year		Summer Session		Federal Board		Short and Dairy Courses		Total		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
Walworth	63	21	10	12	2	0	9	0	84	33	117
Washburn	13	4	1	2	0	0	1	0	15	6	21
Washington	24	10	2	1	0	0	5	0	31	11	42
Waukesha	44	18	8	8	1	0	9	0	62	26	88
Waupaca	50	11	11	13	3	0	15	0	79	24	103
Waushara	25	1	2	2	1	0	8	1	36	4	40
Winnebago	97	31	15	6	3	0	3	0	118	37	155
Wood	27	8	3	5	0	0	2	0	32	13	45
Total	3710	1530	428	618	82	0	384	4	4604	2152	6756

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