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BULLETIN OF
THE UNIVERSITY OF WISCONSIN

GENERAL ANNOUNCEMENT OF COURSES

1930-31

(CATALOG 1929-30)

PUBLISHED BY THE UNIVERSITY
MADISON—MAY, 1930

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THE UNIVERSITY OF WISCONSIN

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MADISON
PUBLISHED BY THE UNIVERSITY
MAY, 1930

BULLETIN OF THE UNIVERSITY OF WISCONSIN

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TABLE OF CONTENTS

PART I—ORGANIZATION

Calendars ---- vii
The Regents and the Board of Visitors ---- x
Administrative Officers ---- xi
Standing Committees of the University Faculty ---- xiv
Instructional and Administrative Staffs ---- xvi
Fellows and Scholars ---- xlix
Public Lectures ---- liv

PART II—GENERAL INFORMATION

History and Government ---- 1
Publications of the University ---- 7
The Campus ---- 8
Libraries ---- 10
Courses and Degrees ---- 11
General Academic Requirements ---- 12
Honors and Prizes ---- 14
Student Expense ---- 15
  University Charges—Fees and Tuition ---- 15
  Self-Support ---- 17
  Summary of Expenses ---- 18
  Loan Funds and Undergraduate Scholarships ---- 18
Room and Board ---- 24
  Dormitories for Women ---- 25
  Dormitories for Men ---- 25
Student Life ---- 27
  Faculty Supervision ---- 27
  Student Health ---- 28
  Student Government ---- 29
  Societies and Publications ---- 30

PART III—ADMISSION

Entrance Requirements ---- 33
  General Requirements ---- 33
  Special Requirements ---- 34
  Advised Grouping of Preparatory Subjects ---- 34
  Foreign Language ---- 35
  Freshman Period ---- 35
Methods of Admission ---- 36
  Admission upon Certificate ---- 36
  Admission with Advanced Standing ---- 38
  Admission upon Examination ---- 40
  Admission on the Adult Special Basis ---- 40
  Scope of Preparatory Work ---- 41

PART IV—THE COLLEGES

COLLEGE OF LETTERS AND SCIENCE

Courses of Study Offered ---- 49
General Regulations ---- 50
Requirements for the General Courses ---- 56
Special Requirements for the B.A. General Course ---- 58
Special Requirements for the Ph.B. General Course ---- 61
Normal Course ---- 62
Course in Chemistry ---- 63
Chemistry-Commerce Course ---- 67
Course in Humanities ---- 68
Course in Pharmacy ---- 70
Premedical Curricula ---- 73
Experimental College ---- 74
School of Commerce ---- 76
School of Education ---- 80
Departmental Professional Requirements ---- 84
Course in Industrial Education ---- 93
Course in Applied Arts ---- 94
Course in Physical Education for Men ---- 97
Course in Physical Education for Women ---- 98
School of Journalism ---- 103
Library School ---- 110
School of Music ---- 114
Departments of Instruction ---- 120

COLLEGE OF ENGINEERING

General Regulations ---- 237
Civil Engineering Course ---- 242
Mechanical Engineering Course ---- 247
Electrical Engineering Course ---- 254
Chemical Engineering Course ---- 259
Mining and Metallurgical Engineering Courses ---- 263
Engineering Experiment Station ---- 268
Departments of Instruction ---- 271

COLLEGE OF AGRICULTURE

Equipment ---- 299
Courses of Instruction ---- 300
Extension Courses given on the Campus ---- 301
Agricultural Experiment Station ---- 302
Agricultural Extension Service ---- 302
Farmers' Institutes ---- 303
Curricula in Agriculture ---- 304
Long Course ---- 304
Middle Course ---- 306
Curricula in Home Economics ---- 307
Non-Professional Course ---- 309
Professional Course ---- 311
Departments of Instruction ---- 317

PART V—THE UNDERGRADUATE SCHOOLS

LAW SCHOOL

Admission ---- 351
Pre-legal Studies ---- 352
Requirements for Graduation ---- 353
Courses of Instruction ---- 356

MEDICAL SCHOOL

Admission ---- 357
Premedical Courses ---- 358
Medical Courses ---- 360
Departments of Instruction ---- 362

SCHOOL OF NURSING

Admission Requirements ---- 371
Three-Year Course ---- 372
Five-Year Combined Courses ---- 373
Departments of Instruction ---- 375

PART VI—THE GRADUATE SCHOOL

Admission ---- 378
Fellowships and Scholarships ---- 379
Second Degrees
  Non-Professional ---- 385
  Master of Science in Engineering ---- 386
  Professional Engineering Degrees ---- 387
Doctor of Philosophy ---- 387

PART VII—EXTENSION DIVISION

Department of Extension Teaching ---- 391
Correspondence Study Courses ---- 396
Milwaukee Center ---- 407
Department of Debating and Public Discussion ---- 409
Department of Public Service ---- 411
  Bureau of Lectures and Short Courses ---- 412
  Bureau of Visual Instruction ---- 413
  Bureau of Municipal Information ---- 413
  Bureau of Economics and Sociology ---- 413
  Bureau of Dramatic Activities ---- 414
  Bureau of Business Information ---- 414
Field Organization ---- 415

PART VIII—OTHER DIVISIONS OF INSTRUCTION

Summer Session ---- 416
Physical Education ---- 419
Men's Division ---- 420
Women's Division ---- 422
Military Science ---- 424

PART IX—ASSOCIATED SCIENTIFIC INSTITUTIONS

Forest Products Laboratory ---- 427
State Laboratory of Hygiene ---- 430
United States Weather Bureau ---- 430
Washburn Observatory ---- 431
Wisconsin Geological and Natural History Survey ---- 431
State Toxicological Laboratory ---- 433
Wisconsin Psychiatric Institute ---- 433
State Historical Society ---- 435
Wisconsin Academy of Sciences, Arts, and Letters ---- 436
Museums ---- 436

PART X—STATISTICAL TABLES

1930

JANUARY

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1931

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NOVEMBER

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DECEMBER

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CALENDAR

ACADEMIC YEAR 1929–30

FIRST SEMESTER

Sept. 16, 17	Monday, Tuesday	Examinations for admission
Sept. 18-24	Wednesday-Tuesday	Freshman Period (attendance required)
Sept. 21-24	Saturday-Tuesday	Registration days for other students
Sept. 25	Wednesday	Instruction begins
Sept. 28	Saturday	Special examinations for removal of conditions
Nov. 28	Thursday	Thanksgiving Day; legal holiday (one day only)
Dec. 20	Friday noon	Christmas recess commences
Jan. 7	Tuesday 8 a. m.	Instruction resumed
Jan. 18	Saturday	Examinations for removal of conditions
Jan. 27-Feb. 5	Monday-Wednesday	Final examinations

SECOND SEMESTER

Feb. 3, 4	Monday, Tuesday	Examinations for admission
Feb. 6, 7	Thursday, Friday	Registration days for new students
Feb. 10	Monday	Instruction begins
Feb. 22	Saturday	Washington's Birthday; legal holiday
April 8	Tuesday, after last class	Spring recess commences
April 16	Wednesday 8 a. m.	Instruction resumed
April 19	Saturday	Examinations for removal of conditions
May 30	Friday	Memorial Day; legal holiday
June 9-17	Monday-Tuesday	Final examinations
June 16, 17	Monday, Tuesday	Examinations for admission
June 21	Saturday	Alumni day
June 22	Sunday	Baccalaureate day
June 23	Monday	Commencement day

SUMMER SESSION 1930

June 23	Monday	Law School opens
June 30	Monday	Registration day, University at large
July 1	Tuesday	Instruction begins, University at large
July 4	Friday	Independence Day; legal holiday
August 8	Friday	Six-week session closes
August 29	Friday	Nine-week session and Law School close

CALENDAR

ACADEMIC YEAR 1930–31

FIRST SEMESTER

Sept. 15, 16	Monday, Tuesday	Examinations for admission
Sept. 17-23	Wednesday-Tuesday	Freshman Period (attendance required)
Sept. 19-23	Friday-Tuesday noon	Registration days for other new students
Sept. 20-23	Saturday-Tuesday noon	Registration days for old students
Sept. 24	Wednesday	Instruction begins
Sept. 27	Saturday	Special examinations for removal of conditions
Nov. 27	Thursday	Thanksgiving Day; legal holiday (one day only)
Dec. 19	Friday noon	Christmas recess commences
Jan. 6	Tuesday 8 a. m.	Instruction resumed
Jan. 17	Saturday	Examinations for removal of conditions
Jan. 26-Feb. 4	Monday-Wednesday	Final examinations

SECOND SEMESTER

Feb. 2, 3	Monday, Tuesday	Examinations for admission
Feb. 5	Thursday	Registration day for new and re-entered students
Feb. 9	Monday	Instruction begins
Feb. (22) 23	(Sunday) Monday	Washington's Birthday; legal holiday
April 7	Tuesday, after last class	Spring recess commences
April 15	Wednesday 8 a. m.	Instruction resumed
April 18	Saturday	Examinations for removal of conditions
May 30	Saturday	Memorial Day; legal holiday
June 8-16	Monday-Tuesday	Final examinations
June 15, 16	Monday, Tuesday	Examinations for admission
June 20	Saturday	Alumni day
June 21	Sunday	Baccalaureate day
June 22	Monday	Commencement day

SUMMER SESSION 1931

June 22	Monday	Law School opens
June 29	Monday	Registration day, University at large
June 30	Tuesday	Instruction begins, University at large
July 4	Saturday	Independence Day; legal holiday
August 7	Friday	Six-week session closes
August 28	Friday	Nine-week session and Law School close

ACADEMIC YEAR 1931–32

Sept. 23	Wednesday	Instruction begins
Jan. 25-Feb. 3	Monday-Wednesday	Final examinations
Feb. 8	Monday	Instruction begins
June 7-15	Monday-Tuesday	Final examinations
June 21	Monday	Commencement day

THE REGENTS OF THE UNIVERSITY

	Term expires
State-at-Large—CARL DREXLER, Menasha	1936
State-at-Large—ADOLPH GUNDERSEN, La Crosse	1931
State-at-Large—JOHN C. SCHMIDTMANN, Manitowoc	1932
State-at-Large—ARTHUR SHOLTS, Oregon	1935
First District—VICTOR P. RICHARDSON, Janesville	1931
Second District—FRED H. CLAUSEN, Horicon	1936
Third District—HARRY L. BUTLER, Madison	1931
Fourth District—MRS. META BERGER, Milwaukee	1934
Fifth District—JUDGE AUGUST C. BACKUS, Milwaukee	1933
Sixth District—MISS ELIZABETH A. WATERS, Fond du Lac	1933
Seventh District—MRS. CLARA T. RUNGE, Baraboo	1932
Eighth District—GEORGE W. MEAD, Wisconsin Rapids	1934
Ninth District—HERMAN W. ULLSPERGER, Sturgeon Bay	1936
Tenth District—BEN F. FAAST, Eau Claire	1932
Eleventh District—PETER EIMON, Superior	1935

JOHN CALLAHAN, State Superintendent of Public Instruction, *ex-officio*
GLENN FRANK, President of the University, *ex-officio*

OFFICERS OF THE REGENTS

BEN F. FAAST, President
MISS E. A. WATERS, Vice-President
SOLOMON LEVITAN, State Treasurer, *ex-officio* Treasurer
JAMES D. PHILLIPS, Business Manager
MAURICE E. MCCAFFREY, Secretary

THE BOARD OF VISITORS

Appointed by the Regents

	Term expires
MRS. CHARLES R. CARPENTER, Madison	1930
GEORGE P. HAMBRECHT, Madison	1931
LOYAL DURAND, Milwaukee	1932
HARRY W. KIRCHER, Sheboygan	1933

Appointed by the Alumni

WILLIAM J. MEUER, Madison	1930
CHARLES L. BYRON, Chicago	1931
B. E. MCCORMICK, Madison	1932
MRS. LUCY M. JOHNSON, Madison	1933

Appointed by the Governor

DR. W. C. SULLIVAN, Kaukauna	1930
MRS. HATTIE C. TEGTMEYER, Milwaukee	1931
MRS. ALLAN CLASSON, Oconto	1932
CARL J. HESGARD, Orfordville	1933

ADMINISTRATIVE OFFICERS

GENERAL

PRESIDENT
GLENN FRANK, *President*
JULIA M. WILKINSON, *Executive Secretary to the President*

DEAN OF MEN
SCOTT H. GOODNIGHT

DEAN OF WOMEN
F. LOUISE NARDIN, *Dean*
SUSAN B. DAVIS, *Assistant to the Dean*
MRS. CLARA B. FLETT, *Assistant to the Dean*
ZOE B. BAYLISS, *Assistant to the Dean*

SECRETARY OF THE FACULTY
CHARLES A. SMITH, *Secretary of the Faculty*
GEORGE A. CHANDLER, *Assistant Secretary of the Faculty*

REGISTRAR
FRANK O. HOLT, *Registrar*
GEORGIA M. MARTIN, *Assistant Registrar*

BUREAU OF GUIDANCE AND RECORDS
FRANK O. HOLT, *Executive Director*
V. A. C. HENMON, *Director of Educational Guidance*
ALANSON H. EDGERTON, *Director of Vocational Guidance*
JOHN L. BERGSTRESSER, *Recorder*

UNIVERSITY LIBRARY
WALTER M. SMITH, *University Librarian*
CLARENCE S. HEAN, *Librarian, Agricultural Library*
FREDERICK E. VOLK, *Librarian, Engineering Library*
MRS. SOPHIE M. BRIGGS, *Librarian, Law Library*
FRANCES B. VAN ZANDT, *Librarian, Medical Library*

HIGH-SCHOOL RELATIONS
THOMAS LLOYD JONES, *High-School Visitor*
ROBERT A. WALKER, *Assistant High-School Visitor*

DEPARTMENT OF MILITARY SCIENCE
TOM FOX, Major of Infantry, U. S. A., *Commandant*

DEPARTMENT OF PHYSICAL EDUCATION
GEORGE E. LITTLE, *Director of Physical Education*
BLANCHE M. TRILLING, *Director of the Women's Gymnasium*

DEPARTMENT OF STUDENT HEALTH
WILLIAM A. MOWRY, *Physician in Chief*
SARAH I. MORRIS, *Associate Physician*

LOANS AND SCHOLARSHIPS
JULIUS E. OLSON, *Chairman*

EDUCATIONAL

COLLEGE OF LETTERS AND SCIENCE
George C. Sellery, *Dean*
Harry Glicksman, *Junior Dean*
Course in Chemistry and Chemistry-Commerce Course
J. Howard Mathews, *Director*
Course in Humanities—Eugene H. Byrne, *Chairman*
Course in Pharmacy—Edward Kremers, *Director*

EXPERIMENTAL COLLEGE—Alexander Meiklejohn, *Chairman*

SCHOOL OF COMMERCE—Chester Lloyd Jones, *Director*

SCHOOL OF JOURNALISM—Willard G. Bleyer, *Director*

LIBRARY SCHOOL
Clarence B. Lester, *Director*
Mary Emogene Hazeltine, *Principal*

SCHOOL OF MUSIC—Charles H. Mills, *Director*

COLLEGE OF ENGINEERING
Frederick E. Turneaure, *Dean*
Adam V. Millar, *Assistant Dean*
Course in Chemical Engineering—Otto L. Kowalke, *Chairman*
Course in Civil Engineering—Leslie F. Van Hagan, *Chairman*
Course in Electrical Engineering—Edward Bennett, *Chairman*
Course in Mechanical Engineering—Gustus L. Larson, *Chairman*
Course in Mining and Metallurgy—R. S. McCaffery, *Chairman*

COLLEGE OF AGRICULTURE
Harry L. Russell, *Dean*
John A. James, *Assistant Dean*
Course in Home Economics—Abby L. Marlatt, *Director*

SCHOOL OF EDUCATION—C. J. Anderson, *Dean*
Courses in Applied Arts and Industrial Education
Alanson H. Edgerton, *Chairman*
Course in Physical Education and Athletic Coaching for Men
Guy S. Lowman, *Chairman*
Course in Physical Education for Women
Blanche M. Trilling, *Chairman*
University High School—Heber H. Ryan, *Principal*

LAW SCHOOL—Oliver S. Rundell, *in charge pro tempore*

MEDICAL SCHOOL
Charles R. Bardeen, *Dean*
Walter J. Meek, *Assistant Dean*

SCHOOL OF NURSING—Helen I. Denne, *Director*

GRADUATE SCHOOL—Charles S. Slichter, *Dean*

EXTENSION DIVISION—Chester D. Snell, *Dean*

SUMMER SESSION—Scott H. Goodnight, *Director*

BUSINESS

BUSINESS OFFICES

JAMES D. PHILLIPS, *Business Manager*
MAURICE E. MCCAFFREY, *Secretary of the Regents*
HERBERT A. BORK, *Comptroller*
GLENN L. GILBERT, *Bursar*
CLARENCE W. VAUGHN, *Accountant*
DONALD L. HALVERSON, *Director of Dormitories and Commons*
PORTER BUTTS, *House Director, Wisconsin Union*
WILLIAM H. NEGLEY, *University Editor*
RALPH O. NAFZIGER, *Editor, University Press Bureau*

PHYSICAL PLANT

ALBERT F. GALLISTEL, *Superintendent of Buildings and Grounds*
GUSTUS L. LARSON, *Consulting Mechanical Engineer*
WILLIAM S. KINNE, *Consulting Structural Engineer*
JOHN J. NOVOTNY, *Chief Operating Engineer*
FRED R. CUTCHEON, *Chief Operating Electrical Engineer*

STANDING COMMITTEES OF THE UNIVERSITY FACULTY

1929–30

The President is, *ex officio,* a member of all standing committees, and the Secretary of the Faculty of each administrative committee.

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

APPEALS—Professor Wickhem, chairman; the deans and advisers of students concerned; Professors Bryan, Kommers, Otto, W. Taylor, Twenhofel; the Dean of Men in cases relating to men; the Dean of Women in cases relating to women.

CARDINAL ADVISORY—Professor Hyde, chairman; Professors Fellows and Gibson.

CATALOG—Professor C. A. Smith, chairman; Assistant Deans James and Millar; Registrar Holt.

DISCIPLINE—Professor Fred, chairman; the deans in cases relating to students in their respective colleges; Professors Adkins, Philip Fox, Ingersoll, Meek; the Dean of Men in cases relating to men; the Dean of Women in cases relating to women.

EDITORS OF UNIVERSITY OF WISCONSIN STUDIES—Professor Lathrop, chairman; Professor Laird, editor for Language and Literature; Professor Marshall, editor for Science; Professor Knaplund, editor for Social Sciences and History; the University Editor, Secretary.

FRESHMAN—Junior Dean Glicksman, chairman; Assistant Deans James and Millar.

GRADUATE SCHOOL—Dean of the Graduate School, chairman; Professors Anderson, Commons, Hisaw, Hohlfeld, Keitt, and Paxson.

HIGH-SCHOOL RELATIONS—T. L. Jones, chairman; Professors Chase, Cheydleur, Edgerton, Elwell, Gilbert, W. W. Hart, Henmon, James, Maurer, C. A. Smith, and Willing; Registrar Holt.

HONORARY DEGREES—Professor Paxson, chairman; the deans; Professors H. C. Bradley, Commons, and Guyer.

LECTURES AND CONVOCATIONS—Professor W. Weaver, chairman; Dean of the College of Letters and Science; Professors Buck, Gaus, C. L. Jones, and Otto; Dean Slichter.

LIBRARY—The President and the University Librarian; (elected) Professors Fish, Mendenhall, Otto, Page, Roe, and Sevringhaus.

LOANS AND UNDERGRADUATE SCHOLARSHIPS—Professor J. E. Olson, chairman; Professors Aurner, B. F. Dodge, Gillen, Goodnight, James, Millar; Mrs. Flett.

NOMINATIONS—(Elected) Professor Hatch, chairman; Professors Chase and Kinne.

PUBLIC FUNCTIONS—Professor J. E. Olson, chairman; Professors Ewbank, Gordon, G. L. Larson, Mortimer, A. T. Weaver, and Withey; Mr. Chandler, Secretary.

REGENT-FACULTY CONFERENCE—The President of the University, *ex officio;*
Regents: Backus, Berger, Butler, Callahan, Schmidtmann, Sholts, Waters.
Faculty: (Elected) Professors Bascom, Guyer, Hohlfeld, Kiekhofer, W. Mead, Rice, Rundell, Sellery, Wagner, Whitbeck, H. C. White, Wickhem; Instructor Kirk; Professor J. H. Mathews, Chairman of the University Committee, *ex officio.*

RELATIONS WITH TEACHERS' COLLEGES OF STATE—Dean Sellery, chairman; Professors Anderson, T. L. Jones, Kivlin, Slichter, and C. A. Smith.

RESEARCH—Dean Slichter, chairman; Professors Bryan, Fred, Glaeser, Knaplund, and Sevringhaus.

ROOMS AND TIME-TABLE—Professor C. A. Smith, chairman; Professors R. H. Denniston, Hyland, James, Kiekhofer, Kowalke, Krauskopf, March, Meek, Mills, Roebuck, Twenhofel, and Wickhem.

STUDENT CONDUCT—The Dean of Men, the Dean of Women, and the deans (or assistant deans) of the several colleges; Professor Ray Brown, chairman; Professors Aurner, Gillin, and Lorenz; Registrar Holt.

STUDENT LIFE AND INTERESTS—Dean of Men, chairman; Dean of Women, assistant chairman.
Athletics: Professor Pyre, chairman; Professor Little, secretary; Professor Phillips, business manager; Professors J. G. Moore, Kowalke, and E. R. Schmidt; Miss Trilling in cases relating to women; Walter Alexander, H. C. Marks, and J. P. Riordan, alumni members; John C. McCarter, student member.
Intra-Mural and Recreational Athletics: Professor Pyre, chairman; Professors L. B. Johnson and G. L. Larson, faculty members; Donald Meiklejohn and Helen McLellan, student members.
Living Conditions and Hygiene: Professor Hastings, chairman; Professors P. F. Clark, Morris, and Woy; Mrs. Flett.
Musical Organizations: Professor Mills, chairman; Professors Iltis and Gordon.
Oratory and Dramatics: Professor A. T. Weaver, chairman; Professors Cool and Troutman.
Publications: Professor Bleyer, chairman; Professors Aurner and K. E. Olson (censor).
Society, Fraternities, and Politics: Professor C. E. Allen, chairman; Professors Fellows and Noland; Miss Bayliss.

TRAINING OF TEACHERS—Professor Anderson, chairman; Dean of the College of Letters and Science; Professors Cool, Gilbert, Henmon, Hohlfeld, James, Marlatt, O'Shea, Ryan, F. C. Sharp, Steve, W. Taylor, and Willing.

UNIVERSITY—(Elected) Professor Mathews, chairman; Professors Kolb, Paxson, Rundell, E. R. Schmidt, and Trumbower.

INSTRUCTIONAL AND ADMINISTRATIVE STAFFS 1929–30

I indicates first semester; II, second semester.

UNIVERSITY FACULTY

FRANK, GLENN, *M.A., Litt.D., L.H.D., LL.D.,* President of the University
BIRGE, EDWARD ASAHEL, *Ph.D., Sc.D., LL.D.,* President Emeritus

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ADKINS, HOMER BURTON, *Ph.D.,* Professor of Chemistry
AGARD, WALTER RAYMOND, *B.Litt.,* Professor of Greek, Adviser in Experimental College
ALEXANDER, ALEXANDER SEPTIMUS, *F.H.A.S., M.D.C.,* Professor of Veterinary Science
ALLEN, CHARLES ELMER, *Ph.D.,* Professor of Botany (on leave II)
ALLEN, CHESTER, Director of Field Organization, Extension Division
ALLEN, KATHARINE, *Ph.D.,* Assistant Professor of Latin (on leave II)
ALLISON, LEONARD BLAINE, *B.S.,* Assistant Professor of Physical Education
ALTMEYER, ARTHUR JOSEPH, *M.A.,* Lecturer in Economics
ANDERSON, C. J., *Ph.M.,* Director of the School of Education, Professor of Education
AURNER, ROBERT RAY, *Ph.D.,* Associate Professor of Business Administration
AUST, FRANZ AUGUST, *M.S., M.L.D.,* Associate Professor of Horticulture
AVEY, HARRY THOMPSON, *M.E.,* Assistant Professor of Mechanical Engineering, Milwaukee Extension Center

BABCOCK, STEPHEN MOULTON, *Ph.D., LL.D., Sc.D.,* Professor of Agricultural Chemistry, Emeritus
BAKER, ELIZABETH, *B.A.,* Hostess of Barnard Hall
BAKKEN, HENRY HARRISON, *M.A.,* Extension Specialist in Agricultural Economics (on leave 1929–30)
BALDWIN, IRA LAWRENCE, *Ph.D.,* Associate Professor of Agricultural Bacteriology
BALDWIN, LEO STARR, *B.S.,* Assistant Professor of Drawing, Milwaukee Extension Center
BARDEEN, CHARLES RUSSELL, *B.A., M.D.,* Dean of the Medical School, Professor of Anatomy
BARKER, GEORGE JOHN, *E.M.,* Assistant Professor of Mining and Metallurgy
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GRANT, JAMES ALLAN CLIFFORD, *Ph.D.*, Assistant Professor of Political Science
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GUYLES, CALLA ARATHUSA, *Ph.B.*, Assistant Professor in the Teaching of Latin

HAAKE, ALFRED PAUL, *Ph.D.*, Lecturer in Economics—II
HADLEY, FREDERICK BROWN, *D.V.M.*, Professor of Veterinary Science
HAENTZSCHEL, ADOLPH THEODORE, *Ph.D.*, Lecturer in Philosophy
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HALL, NORRIS FOLGER, *Ph.D.*, Assistant Professor of Chemistry
HALLAM, ARTHUR WOOD, *B.A.*, Assistant Professor of Business Administration, Extension Division
HALPIN, JAMES GARFIELD, *B.S.*, Professor of Poultry Husbandry
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HARPER, CARL SAMUEL, *B.S., M.D.*, Clinical Assistant Professor of Obstetrics and Gynecology
HARRIS, JOHN WARTON, *M.A., M.D.*, Professor of Obstetrics and Gynecology
HARRIS, JOSEPH PRATT, *Ph.D.*, Associate Professor of Political Science (on leave I)
HARRIS, JULIAN EARLE, *Ph.D.*, Assistant Professor of French
HART, EDWIN BRET, *B.S.*, Professor of Agricultural Chemistry

HART, JOSEPH KINMONT, *Ph.D.*, Acting Professor of Education
HART, WALTER WILSON, *B.A.*, Associate Professor in the Teaching of Mathematics (on leave II)
HASTINGS, EDWIN GEORGE, *M.S.*, Professor of Agricultural Bacteriology
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HAVIGHURST, ROBERT JAMES, *Ph.D.*, Assistant Professor of Physics, Adviser in Experimental College
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INGRAHAM, MARK HOYT, *Ph.D.*, Professor of Mathematics

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JANDA, HAROLD FREDERICK, *C.E.*, Professor of Highway Engineering and City Planning

JANSKY, CYRIL METHODIUS, *B.A., B.S.*, Professor of Electrical Engineering, Extension Division and College of Engineering
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JEROME, HARRY, *Ph.D.*, Professor of Economics (on leave II)
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LATHROP, HENRY BURROWES, *B.A.*, Professor of English
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MACKAY, SCOTT, *M.S.*, Associate Professor of Metallurgy
MACKLIN, THEODORE, *Ph.D.*, Professor of Agricultural Economics (on leave II)
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MEAD, DANIEL WEBSTER, *C.E.*, Professor of Hydraulic and Sanitary Engineering
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MIDDLETON, WILLIAM SHAINLINE, *M.D.,* Associate Professor of Medicine
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MORPHY, EDSON WILFRED, Associate Professor of Music
MORRIS, SARAH ISABELLE, *M.D.,* Associate Professor of Clinical Medicine
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SHELDON, WILLIAM HERBERT, *Ph.D.,* Assistant Professor of Psychology
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WALKER, JOHN CHARLES, *Ph.D.*, Professor of Plant Pathology
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SILVEUS, MARIAN, *M.A.*, Assistant in History
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SLOAT, CHESTER HERBERT, *B.A.*, Assistant in English
SMALL, VIRGINIA, *B.A.*, Assistant in Zoology
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SMITH, MRS. AMY HOYT, *M.A.*, Recorder, Extension Division
SMITH, CORNELIUS WALTER, *M.A.*, Assistant in History
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SNYDER, NEWELL, *B.A.*, Assistant in English
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SOUTHCOTT, ELEANOR MARGARET, *B.S.*, Home Demonstration Agent, Wood County
SPARKMAN, REUBEN HAYNES, *M.A.*, Assistant in Economics
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SPOONER, DWIGHT ALEXANDER, *B.A., M.D.*, Assistant Resident in Medicine—I
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SPREITER, WALTER EMIL, County Agricultural Representative, La Crosse County
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UHL, ARTHUR HOYT, *M.S.*, Instructor in Pharmacy

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VANCE, AMOS MILTON, *M.A.*, Assistant in Economics
VAN HORN, WILLIS MARTIN, *B.A.*, Assistant in Zoology
VAN LONE, ELDYN EVERETT, *M.S.*, Assistant in Genetics
VAN ZANDT, FRANCES BRYCE, *B.S.*, Librarian, Medical School and Medical Extension Library
VASS, JOHN ISAAC, *M.A.*, Instructor in Mathematics
VAUGHN, CLARENCE W., University Accountant
VELTEN, HARRY DEV., *Ph.D.*, Instructor in German
VERDUIN, ARNOLD ROBERT, *B.A.*, Assistant in History—II
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VERNON, ELVIN LEONIDAS, *B.S.*, Assistant in Chemistry
VILJOEN, MRS. HELEN GILL, *Ph.D.*, Assistant in English—II
VINCENT, VERA ELIZABETH, *B.A.*, Assistant Chemist, State Laboratory of Hygiene
VIVAS, ELISEO, *M.S.*, Instructor in Philosophy
VOIGT, MRS. FRIEDA ANNEMARIE, *B.A.*, Instructor in German, Milwaukee Extension Center
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WAGNER, RUBE EDWIN, *B.S.*, Instructor in Physical Education
WALDELAND, CONRAD RAYMOND, *B.A.*, Assistant in Chemistry
WALHUS, BESSIE VIENNA, *R.N.*, Assistant in Nursing
WALKER, ROBERT ARLO, *B.A.*, Assistant High-School Visitor
WALKER, RUTH IRENE, *Ph.D.*, Instructor in Botany
WALZ, JOHN MARTIN, *B.S.*, County Agricultural Representative, Douglas County—I
WARD, GERALD CHARLES, *B.S.*, Instructor in Railway Engineering
WARNER, FRANCIS JAMES, *M.A.*, *M.D.*, Neuropathologist, Wisconsin Psychiatric Institute—I
WEAR, JOHN BREWSTER, *B.A.*, *M.D.*, Instructor in Urology
WEAVERS, HARVEY J., *B.S.*, County Agricultural Representative, Manitowoc County
WEBB, LOUISE, *B.A.*, Assistant in Mathematics
WEBB, MARY, *B.A.*, Assistant in Spanish—I; Research Assistant in Education—II
WEBER, ARTHUR GEORGE, *B.A.*, Assistant in Chemistry
WEBSTER, DAVID HUME, *M.A.*, Instructor in English
WEEKS, FRANK DANA, *B.A.*, *M.D.*, Assistant in Pathology
WEGNER, KENNETH WARREN, *B.A.*, Assistant in Mathematics
WEIGHTMAN, ESTHER, *B.S.*, *M.A.*, Teacher of Latin, Wisconsin High School
WEIR, EARL FOSTER, *B.A.*, Assistant in Pharmacology
WENDT, KURT FRANK, *B.S.*, Instructor in Mechanics
WERRELL, MRS. PATRICIA MCGARTY, *B.A.*, Instructor in Electrocardiography
WERRELL, WILLIAM ALEXANDER, *M.D.*, Assistant Resident in Surgery
WESSON, CYNTHIA MARIA, *M.A.*, Instructor in Physical Education
WESTBY, KENNETH, *B.A.*, Assistant in Economics
WESTON, FRANK LAWRENCE, *B.S.*, *M.D.*, Instructor in Clinical Medicine
WESTOVER, EDWIN F., *D.D.S.*, Instructor in Dental Surgery

WHEELER, ARTHUR LLOYD, *M.A.*, Instructor in Comparative Literature
WHEELER, FLOYD ERNEST, *B.A.*, Assistant to the Junior Dean
WHEELER, MRS. HELEN BENNET, *B.A.Sc., R.N.*, Assistant in Nursing
WHITELAW, NEILL GORDON, *M.A.*, Assistant in Physics
WHITFORD, ALBERT EDWARD, *M.A.*, Assistant in Physics
WILDER, MALCOLM LOWNSBURY, *Ph.D.*, Instructor in English
WILKINSON, JULIA MARY, Executive Secretary to President
WILLIAMS, CAROL SALOME, *B.F.A., M.S.*, Instructor in Applied Arts
WILLIAMS, RAMOND HENDRY, *B.A.*, Instructor in Applied Arts
WILSON, MARGARET CURTISS, *B.A.*, Assistant in English
WILSON, PERRY WILLIAM, *M.S.*, Research Assistant in Agricultural Bacteriology
WILTON, OCRA CHRISTINE, *B.S.*, Assistant in Horticulture—II
WINANS, CHARLES FRANCIS, *B.S.*, Assistant in Chemistry
WINANS, JOHN GIBSON, *Ph.D.*, Instructor in Physics—II
WINCH, RALPH PHILIP, *M.A.*, Assistant in Physics
WINCHELL, BERNICE, *B.A.*, Assistant in Geography—I
WINELAND, ALBERT JOHN, *B.A., M.D.*, Instructor in Surgery (Anesthesia)
WINN, MARCIA HOWE, *B.S.*, Instructor in Physical Education—II
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WOLF, LORELLE ARTHUR, *B.A.*, Library Assistant
WOLF, OPAL MARIE, *Ph.D.*, Instructor in Zoology—I
WOLFE, HAROLD RECLUS, *M.S.*, Assistant in Zoology
WOOD, CHARLOTTE ROBERTSON, *M.A.*, Instructor in English
WOODWORTH, CHARLES EDWARD, *M.S.*, Assistant in Economic Entomology
WORSENCROFT, ROBERT ROCKWOOD, *B.S.*, Instructor in Drawing and Descriptive Geometry
WRIGHT, CECIL STUART, *B.S., M.D.*, Resident in Radiology
WRIGHT, DORIS ANN, *M.A.*, Assistant in Zoology—I

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ZEIMET, AGNES LILLIAN, *M.A.*, Assistant in Genetics
ZELLMER, LUTHER AUGUST, *B.E.*, Assistant in Geography
ZEMPEL, ARNOLD, *Ph.B., M.A.*, Assistant in Economics
ZEUNERT, RAYMOND, *B.S.*, Instructor in Sanitary Chemistry, State Laboratory of Hygiene—I
ZILLEY, MARION, *B.A., R.N.*, Instructor in Nursing
ZINN, ZEA, *M.A.*, Assistant in English

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ADAMS, MABEL BERKLEY, Industrial Fellow in Agricultural Bacteriology
ALEXANDER, LEONARD JAY, *M.S.*, Fellow in Plant Pathology—I
ALLYN, WILLIAM PRESTON, *M.S.*, Fellow in Agricultural Bacteriology
ANDERSON, MELVIN ELIASON, *B.S.*, Fellow in Plant Pathology—II
ARMSTRONG, SINCLAIR WALLACE, *M.A.*, Fellow in European History
ASMUNDSON, VIGFUS S., *M.S.*, Honorary Fellow in Genetics

BABB, LAWRENCE ASHLEY, *M.A.*, Fellow in English
BACKUS, MYRON PORT, *M.A.*, Fellow in Botany
BAILEY, CHARLES FREDERICK, *B.S.*, Fellow in Chemistry
BAILLIE, EDWARD CHARLES, *B.S.*, Hollister Scholar in Pharmacy
BAKER, HAROLD RALPH, *B.A.*, Mary M. Adams Fellow in Greek
BARNARD, RAYMOND HUMPHREY, *M.A.*, Fellow in Speech, School of Education
BAUDER, RUSSELL STICKNEY, *M.A.*, Scholar in Economics
BLOOD, HEBER LORAN, *M.S.*, Fellow in Plant Pathology
BLUHM, HEINZ SIEGFRIED, *B.A.*, Fellow in German
BRADSHAW, MARY ELOISE, *B.A.*, Martha L. Edwards Traveling Scholar in History—II
BRADY, MARY, Industrial Fellow in Home Economics (Milwaukee)
BRENNAN, ELSIE MAY, *M.A.*, Charles Kendall Adams Fellow in Greek
BROWN, CALVIN SMITH, JR., *B.A.*, Fellow in Comparative Literature
BROWN, ROBERT VAUGHAN, *B.S.*, Fellow in Mechanical Engineering
BUSSE, CLARENCE FREDERIC, *B.A.*, Ripon College Scholar in Comparative Literature
BUTTERWORTH, THERON HERVEY, *B.A.*, *M.S.*, Annie Gorham Fellow in Agricultural Bacteriology—II

CARLTON, ALMA OLIVE, *M.A.*, Fellow in Latin
CAULEY, TROY JESSE, *M.A.*, Fellow in Economics
CHOATE, HELEN ASHHURST, *Ph.D.*, Honorary Fellow in Botany—I
COWART, ROLAND, *M.S.*, Industrial Fellow in Soils
CULTER, SAMUEL HAROLD, *M.S.*, Lloyd Fellow in Pharmacy

DEAKIN, ALAN, *M.S.*, Industrial Fellow in Genetics
DEVOR, CLARA CORNELIA, *B.A.*, Milwaukee Downer College Scholar in History
DICK, EVERETT NEWTON, *M.A.*, Honorary Scholar in History
DIXON, ELLIS HOWARD, *M.S.*, Scholar in Physics
DUNHAM, THEODORE CHADBOURNE, *B.A.*, Lafrentz Fellow in German

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ELLSWORTH, ELMER WILLIAM, *B.S.*, Scholar in Geology
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ELY, STEPHEN LEE, *M.A.*, Fellow in Philosophy
ENGELBRECHT, MILDRED AMANDA, *B.A.*, Industrial Fellow in Agricultural Bacteriology
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ERDMAN, HERBERT HENSLEY, *B.S.*, Scholar in Agricultural Economics
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HOUGH, GRAYDON MAX, *M.A.*, Fellow in Greek
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WEHRLE, OTTO WILLIAM, *B.S.*, Fellow in Mechanics
WEHRWEIN, CARL FREDERICK, *M.S.*, Fellow in Agricultural Economics
WELSH, WILLIAM EDWARD, *D.V.M.*, Industrial Fellow in Veterinary Science
WEYKER, LAWRENCE MICHAEL, *M.S.*, Industrial Fellow in Soils
WHITELEY, ALBERT SPENCE, *B.A.*, Fellow in Economics
WHITNEY, WILLIAM PERCY, *B.S.*, Fellow in Ceramics
WILSON, THOMAS WAYNE, *B.A.*, Scholar in American History
WITZEL, STANLEY ARTHUR, *B.S.*, Research Fellow in Hydraulic and Sanitary Engineering
WOLBERG, FLOYD BYRON, *B.S.*, Industrial Fellow in Animal Husbandry
WOO, HUA FUH, *B.S.*, Fellow in Structural Engineering

FACULTY SUMMARY

Rank	Men	Women	TOTAL
President, Registrar, and Deans	9	1	10
Directors of Schools	4	1	5*
Professors	193(11)	2	195(11)
Associate Professors	91(5)	16	107(5)
Assistant Professors	149(8)	43(4)	192(12)
Lecturers (small part of time)	42(4)	3	45(4)
Clinical Associates (small part of time)	3	1	4
Research Associates	6	2	8
Instructors	283(20)	109(7)	392(27)
Assistants (mainly half time)	263(32)	102(16)	365(48)
Research Assistants (mainly half time)	58(7)	12(1)	70(8)
Clinical Assistants	3(1)	0	3(1)
Totals	1,104(88)	292(28)	1,396(116)

Numbers in parenthesis indicate faculty members who were present for only one semester either by appointment or because of resignation, leave for one semester, or death. These numbers are included in the totals for men and women by ranks. Totals also include members on leave for the year, as indicated in table below.

* All professors, except the director of the Library School who is a lecturer.

THE ABOVE TABLE INCLUDES:

a. Members of the instructional and research staffs at Madison.
b. Extension workers throughout the State, including the Milwaukee Center.
c. Administrative officers and librarians having the rank of any member of the instructional staff.
d. The following who were on leave for the entire year:

	Men	Women	Total
Professors	3	0	3
Associate Professors	2	1	3
Assistant Professors	3	0	3
Totals	8	1	9

THE TABLE DOES NOT INCLUDE:

a. The following emeritus members of the faculty:

	Men	Women	Total
President	1	0	1
Dean	1	0	1
Professors	13	0	13
Assistant Professors	0	2	2
Totals	15	2	17

b. The following persons without faculty rank:

Administrative staff	16	7	23
Hygienic Laboratory staff	0	4	4
Library staff	1	25	26
Totals	17	36	53

c. Fellows and Scholars:

Fellows	94	22	116
Scholars	34	9	43
Totals	128	31	159
d. Undergraduate Assistants	16	2	18

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.

ACADEMIC YEAR 1929–30

1929

October 28. David Moore Robinson—"The Parthenon and Fifth Century Greek Art."
October 31. C. Douglas Booth—"Anglo-American Relations and World Peace."
November 6. Grant Showerman—"Italy and the Vatican: I—The Pope Is Crowned; II—The Pope Comes Out."
November 8. George Young—"Labour Party Personalities and Policies."
November 11. Alanson B. Houghton—"War and Peace."
November 13. Hans Prinzhorn—"The Art of the Insane Compared with the Art of Children, of Primitives, and of the Present Time."
December 2. W. B. Cannon—"How We Stay Normal."
December 3. Alfred Lande—"Causal Determination in Wave Theory and Corpuscular Theory of Matter."
December 4. Robert S. Conway—"Virgil's Vision of the World."
December 5. W. B. Cannon—"What Strong Emotions Do To Us."
December 5. Robert S. Conway—"Poetry and Government—A Study of the Power of Virgil."
December 5. Paul Monroe—"Democracy and Education in Japan."
December 6. Paul Monroe—"Significant World Movements in Education."
December 12. Howard Giles—"Science and Art."
December 13. Howard Giles—"Dynamic Symmetry as a Release of Power."

1930

January 10. Wolfgang Liepe—"Das Drama Der Gegenwart in Deutschland" (in German).
January 13. Franco Bruno Averardi—"The Spirit of Florence and Siena in the Trecento."
January 14. J. Harris Levy—"The Ruins of Angkor."
January 14. Friedrich Schoenemann—"The Americanization of Europe."
January 15. Friedrich Schoenemann—"German University Problems of Today."
January 16. C. Sanford Terry—"The Chorales of Bach."
January 17. O. E. Baker—"The Outlook for Agriculture in the Next Quarter Century."
January 17. C. Sanford Terry—"Bach: The Historical Approach."
January 20. John George Bucher—"The Germany of Today."
January 20. Bolton C. Waller—"The Irish Free State."
February 28. Robert T. Wallace—"Pioneer Problems of the Canadian Northwest."

March 3. Sidney Hillman—"Labor and Capital Problems in the Men's Clothing Industry."
March 10. Rollin H. Tanner—"The Minotaur and Its Labyrinth."
March 10. Alfred E. Zimmern—"Readjustment of Government in the Post-War World."
March 14. Elmer Kenyon—"A Psycho-Mechanistic View of the Human Voice and Its Disorders."
March 28. Eduard Prokosch—"The Germanic Migration as a Cause of Linguistic Change."
April 2. C. A. Kraus—"The Boundary Between Organic and Inorganic Chemistry."
April 4. Frank H. Hankins—"Civilization and the Birth Rate."
April 4. Edwin Carl Roedder—"German Folklore."
April 4. Karl von Frisch—"The Senses and Language of the Bees."
April 7. Hubert Phillips—"The Future of British Industry and Trade."
April 17. Fletcher Harper Swift—"The Place of the State in Financing Education: A Comparison of European with American Conceptions and Policies."
April 22. Camillo von Klenze—"Main Currents of Intellectual Life in Germany Since the World War."
April 23. Camillo von Klenze—"The German Spirit and Its Influence Abroad. A Historical Survey."
April 24. B. H. Hibbard—"Can Agricultural Prosperity Be Restored?"
May 1. Alice Hamilton—"Recent Problems in Industrial Medicine."
May 6. Franco Bruno Averardi—"Dante."
May 7. Andre Geraud (Pertinax)—"The Work of the Political Journalist."
May 8. Philo M. Buck, Jr.—"The Hebrew in Literature."
May 12. R. Brenes-Mesen—"Influences of the United States in Latin American Countries."
May 14. Edwin B. Hart—"Twenty-Five Years of Progress in the Study of Animal Nutrition."
May 15. E. Allison Peers—"The Nature of Spanish Romanticism."
May 19. David Willard Lyon—"Some Significant Social Trends in China Today."
May 21. Lillian Moller Gilbreth—"Skills and Satisfactions."

PART II—GENERAL INFORMATION

HISTORY AND GOVERNMENT

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

The state was admitted May 29, 1848; the necessary legislative acts providing for the organization of the University were approved July 26 of the same year; and the first Board of Regents met at Madison in October. The new state had nothing with which to endow the new institution but the unsettled land already granted to it. The Regents, therefore, had before them the choice of two courses—to sell the lands at low prices in competition with the other wild lands of the state, or to refrain from selling until the increase of population should have raised the value of the university property to a substantial amount. The one course would sacrifice the material endowment; the other would prevent the state from benefitting 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 Uni-

versity of Missouri, entered upon his duties in the autumn of 1849. He was a man whose plans were genuinely large and at the same time definite but were in the main never realized because of the paucity of funds. He insisted upon maintaining a solid classical course as the nucleus about which all possible future developments were to be gathered but which was never to be sacrificed to any other objects, however plausible they might seem and however much he desired to meet them. Under his administration (1849–1858) the faculty grew to seven members, and some systematic instruction was given in modern languages, English literature, the art of teaching, and agriculture, as well as 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 tradition were created. The material beginning of the University may fairly be said to be the grant under the Morrill Act (1862) for the support of a college of agriculture and mechanic arts "without excluding other scientific and classical studies." This noble statute bears evidence of the influence of the Civil War in that it made instruction in military tactics a condition of the continuance of the grant. The very smallness of the literary college perhaps made it the more natural to amalgamate the new institutions with the old, and thus give to the University of Wisconsin its peculiar character. In the state all types of highest instruction, whether liberal, professional, or technical are given by the one institution. The University of Wisconsin has accordingly a very great diversity of functions and a very complex organization. In this way unseemly rivalries among institutions of higher learning conducted by the state have been avoided and the conception of instruction within the University has been in some departments liberalized and in others elevated.

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

The foundation of the University had now been laid, and the policy of including within it a group of technical and professional colleges, as well as a strong college of liberal arts, had been determined upon. During the presidency of Dr. John Bascom (1874–1887), the University was developed

into a firmly organized and well equipped teaching institution, was brought into close and orderly relations with 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 halfhearted 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 the 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 and the faculty became a body of specialists, rather than a group 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 a few interruptions and with liberal increases ever since. Finally the free high schools, the establishment of which was promoted by the act of 1875, granting state aid to such institutions, were bound to the University by a system of accrediting their graduates on the one hand, and on the other by the recognition of the university degree as a qualification for a certificate to teach in the public schools of the state.

In the administration of Dr. Bascom's successor, Dr. Thomas Chrowder Chamberlin (1887–1892), 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 ideas of research brought from Johns-Hopkins or from Germany were added to the faculty. The first university fellowships were established. The degree of doctor of philosophy was offered. A reorganization 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 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. Adam'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' 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 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, and for the training of teachers were established, while the older similar School of Commerce, now called 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 department of the humane arts and the pure sciences constituted the largest single part of the activity of the University and the opportunity and the ideal of liberal culture were maintained with energy.

The war made a deep impress upon the life of the University. In such a national crisis an institution of higher learning manifests its ideals mainly through the response of those who have received its training and imbibed its spirit. The University fostered the ability and encouraged the desire of its faculty, alumni, and students to be of directly active use to their country, an ability and a desire which have been abundantly manifested. For the alumni it could do little directly, but it has carefully preserved the record of their service as a memorial to the future. To the members of the faculty called to war work, it granted leave of absence on generous terms. The total faculty, alumni, and students in active military service was upwards of 10,000 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 the 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 President of the University. The issues which confronted his administration were especially heavy and complicated. They involved numerous scholastic questions and also many difficult financial problems, raised by the phenomenal increase in attendance after the war and by the concurrent increase in the cost of living and building, which came at a time when business of nearly all kinds was beginning to suffer the inevitable check which followed the peace. Partial solutions were found for these problems until a special session of the legislature, in May, 1920, granted the necessary funds for operation and enabled the University to place salaries on a satisfactory basis. Toward the close of President Birge's term and under his inspiration,

regents, faculty, legislature, and state had united to ensure the future of the University. Other results of his administration, which helped to initiate the post-war development of the University, were: the securing of a modest but promising annual research fund; the enlargement of the medical course to the full four years; the erection of the Wisconsin General Hospital, which is administered by the Medical School; and the resumption of building operations in the University, made possible by the legislature of 1925.

Glenn Frank, editor of *The Century Magazine*, succeeded Dr. Birge upon the retirement of the latter in 1925.

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

SUPPORT—The University is supported partly by the income of federal grants, partly by taxation of the people of the state, partly by student fees, and to a slight extent by private gifts. There have been several federal grants, namely: The Two-Township Grant of 1848; the Supplementary Two-Township Grant of 1854; the Morrill Grant of 1862; the Supplementary Morrill Grant of 1890, and the Nelson Grant of 1907 for the support of teaching in agriculture and mechanic arts; the Hatch Grant of 1887, the Adams Grant of 1906, and the Purnell Grant of 1925 for the support of agricultural experiment stations; the Smith-Lever Grants of 1914 and 1924, and the Capper-Ketcham Grant of 1928 for the support of extension work in agriculture and home economics.

In addition to 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; from the late Mrs. Fannie P. Lewis for the foundation of scholarships for women; from the late Anna Marston for the establishment of the Anna Marston Fellowship; from the late Calvin K. Jayne, the residue of whose

estate is to be used as a loan fund for agricultural students, or for fellowships in the event that the money is not required for loans; and from Horace S. Oakley, Mrs. Mary Oakley Hawley, and George Walter Oakley, a fund in honor of their mother to be known as the Jane Oakley fund, the income to be used to pay the annual contributions of the University of Wisconsin to the American School of Classical Studies at Athens, Greece.

On August 27, 1908, the entire estate of Colonel William F. Vilas was bequeathed to the University, the income, however, part or whole if need be, to go to his wife and daughter during their lives. Half of the income of the estate is to be used for the support of research professorships, fellowships, and scholarships, and the remainder to increase the principal. The residue of the estate of the late Torger Thompson is bequeathed to the University to establish a chair in the Scandinavian languages and to assist Scandinavian students attending the University; the will also provides for a trust fund of $10,000, the income to be paid annually to the Regents for research in clinical medicine. In 1911 the friends of the University created the Carl Schurz Memorial Foundation with a fund of $30,000 given in trust to the Regents of the University. The unused income from this fund has been transferred to the principal from time to time so that the fund now amounts to $48,000.

The late J. Stephens Tripp, of Prairie du Sac, made the University residuary legatee of his estate of approximately $500,000, free from limitations and restrictions of any kind, which marks it as a remarkable expression of confidence in the permanent administration of a great public educational trust. $300,000 of the principal and accumulated income was used to aid in the construction of Tripp Hall, one of the dormitories for men. It is expected that this sum will be returned to the J. Stephens Tripp Fund when the other indebtedness on the dormitories has been amortized. $200,000 was used to aid in the construction of the Memorial Union Building and Tripp Commons. $10,000 was put in the permanent University Trust Funds, the income to be used for a scholarship for students from Sauk County. The remainder is to be used for the acquisition of land for the development of an arboretum in the vicinity of Lake Wingra, already undertaken by the Madison Parks Foundation. The will of the late Mary J. Eichelberger, of Horicon, provided $20,000 for the University; like that of Mr. Tripp, this bequest is free from limitations and restrictions.

The will of the late John M. Olin of Madison provided for the gift to the Regents, in memory of his wife, Helen Remington Olin, of his beautiful home at 130 North Prospect Avenue, and eight lots to be used as the residence of the president of the University. The premises are now occupied by President Frank and his family.

The will of the late Thomas Evans Brittingham of Madison provided for a "University of Wisconsin Trust Fund," the amount of which has not been reported to the Regents. The trustees are to distribute annually, or from time to time, so much of the net income as they may deem proper to individuals, colleges, or departments of the University. The funds released have been sufficient to maintain the Brittingham Professorship of Philosophy during the past three years.

The will of the late William H. Kipp, of Reedsburg, provides for a permanent trust fund, the amount of which has not yet been determined. The income is to be used for scholarships of $1,000 per year for students from Wisconsin high schools; the first one is to be awarded to a student from Adams County, and thereafter (as rapidly as funds become available) to students from other counties in alphabetical order.

GOVERNMENT—The government of the University is vested in the 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 four from the state-at-large, of whom two are farmers and two are from the manual trades. At least two of the members are women, and the President of the University and the Superintendent of Public Instruction are *ex-officio* members. 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 Regents, in all matters relating to educational policy, scholastic standards, and, in general, the relation of students to the University. All members of the staff of instruction with the rank of assistant professor or above constitute the governing faculty; 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.

PUBLICATIONS OF THE UNIVERSITY

The University of Wisconsin Studies are published quarterly 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 announcements of courses, both general and special. Copies of the special announcements of the various schools and colleges may be obtained upon application to the University Editor; the complete announcement is reserved for institutional distribution and so is not available to prospective students. The University Directory, containing names, classifications, and addresses of students and staff members, is published annually in November; copies are mailed by the Information Office upon receipt of thirty-five cents in stamps.

The high-school series, comprising a number of manuals designed to assist secondary school teachers in the subjects of the high-school curriculum, is published by the Committee on High-School Relations.

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

THE CAMPUS

By the provisions of the Constitution of the state of Wisconsin, the University must be located at or near the state capitol, afterwards fixed at the "village of Madison." The founders of Madison intelligently adapted the original plan of the city of Washington to local conditions, selecting an eminence in the center of the city for the site of the capitol, and laying out radial thoroughfares approaching it so that it closes the vista from every direction. A mile to the west, at the end of one of these radial streets, on a second elevation rising abruptly to a height of more than a hundred feet above the shore of Lake Mendota, the principal building of the University was erected, thus closing the view from the capitol in that direction.

The earliest buildings to be erected on the campus were North and South Halls (1851, 1855), which contained for some years not only all the classrooms and offices of the University, but also the living quarters of both faculty and students. These twin buildings, remodeled in recent years, now house the departments of mathematics, journalism, and political science, and several administrative offices. Rapid increase in enrollment soon resulted in the erection of University Hall (1857), since renamed Bascom Hall, which at once became and has always remained the center of the University. This building, originally constructed in the simple and dignified modification of classical renaissance architecture accepted in America since colonial times, has been twice added to (1900, 1906), and has recently (1927) undergone further enlargement in conformity with far-sighted plans for symmetrical expansion. In Bascom Hall are located the principal educational administrative offices of the University and the classrooms and offices of several of the more important departments of instruction in liberal arts subjects.

From Bascom Hall a broad open plaza bordered by elms—the upper campus—sweeps downward in the direction of the capitol. Along one side are North Hall, the Engineering Building (1901, 1910), and Science Hall (1888), back of which, near the lake shore, may be found a number of the special buildings of the College of Engineering; on the opposite side are situated the Biology Building (1910), South Hall, the Law Building (1893), and Music Hall (1879), flanked by the group of women's buildings, including the two dormitories, Chadbourne Hall (1871) and Barnard Hall (1912), and the gymnasium, Lathrop Hall (1909), which is also used as a center of social activities for women. Back of Bascom Hall, at the base of the hill, are the Chemistry Building (1905, 1912, 1928) and Sterling Hall (1916), in which are housed the departments of physics and economics.

The lower campus, a flat area encroaching upon the old residential district of the city, is still in an early stage of development. Here, at the lake's edge, stands the combined men's gymnasium and armory (1894) adjacent to which are the boat houses and an open field used for a parade ground and for certain types of athletic exercises. Close by is situated the most stately of all the buildings on the campus, the Library (1900, 1912), an edifice of Bedford limestone with a colonnade and terrace of great beauty and dignity. In a grove of oaks and elms toward the lake from the Library stands the newly completed (1928) Memorial Union Building, "erected and dedicated to the memory of the men and women of the University of Wisconsin who served in our country's wars." Among the features of this building are a large refectory, several dining rooms, rec-

reation rooms, quarters for student publications and other undergraduate activities, and lodgings for transient alumni. The Y. M. C. A. dormitory, the University Club Building, and the Administration Building, headquarters of the business organization of the University, are also located in the lower campus district.

Westward from the main group of buildings are situated the University Extension and Home Economics Building (1912), Washburn Observatory (1878), the medical group, the Wisconsin High School (1913), and, extending for some distance beyond these, the numerous buildings and experimental plots of the College of Agriculture, including barns, greenhouses, and a large judging pavilion (1908) containing an oval amphitheater with a seating capacity of two thousand people and an arena capable of accommodating an additional two thousand. The medical group consists at present of the Wisconsin General Hospital (1924), the Service Memorial Institutes Building (1928), the Bradley Memorial Hospital (1918), the Infirmary (1918) and the Nurses' Dormitory (1925). On the lake shore back of the principal agricultural buildings is a new group of men's buildings, Adams Hall, Tripp Hall, and the Refectory (1926), in the vicinity of which are located the intra-mural athletic fields for men.

In the district to the south of the medical and agricultural buildings are located the central heating plant (1908) and the Service Building (1911, 1924), and, separated from them by a group of private store buildings, the Forest Products Laboratory (1909) and the first of a new group of engineering shops (1920). These border a forty-two acre area known as Camp Randall, which includes a large concrete stadium with running track, a field house and archery and hockey grounds for women, baseball diamonds, tennis courts, and the like. Here is being constructed (1930) an athletic field house, containing ample facilities for most of the major sports.

Spread for nearly a mile along the crest and on the slopes of an irregular ridge, bordering the southern shore of the largest of Madison's four lakes, the grounds of the University are of marked natural beauty and afford many rare views out over the broad expanses of water, farm lands, and city dwellings. Of special attraction are the many choice groups of evergreens, the rows of towering elms, and the willow drive fringing the lake-shore. The lake itself provides unexcelled facilities for swimming, boating of all sorts, and, during the late winter, skating, while the hills make possible two other forms of winter sports not everywhere common, skiing and tobogganing.

The grounds have a special archaelogical interest because of the presence of several Indian effigy mounds which are found in abundance in and near Madison. 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, unique in being found only in southern Wisconsin and along the boundaries of the states to the west and south.

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 846,500 and the number of pamphlets exceeds 457,000.

The first three libraries above named are housed on the university campus in the library building of the State Historical Society. 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. University staff members 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, classics, and modern languages and English. The museum and gallery of the Historical Society occupy the fourth floor. During the academic year, the library is open fourteen and one-quarter hours daily, except on Sundays and legal holidays.

A large reserved book reading room in the basement of Bascom Hall is open at the same hours as the Library during the academic year. The agricultural, engineering, law, medical, and astronomical libraries are located in their respective buildings.

The Library of the University of Wisconsin, including its branches, contains about 401,500 volumes and 66,000 pamphlets. The catalog is the usual dictionary card catalog of authors, subjects, and titles in one alphabetical arrangement. Subject to certain restrictions, books may be drawn by all members of the University. Every student of the University, matriculated for the regular year, is required to make a library deposit of $2.00. 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 Library of the State Historical Society contains 264,000 volumes and 284,000 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 Legislative Reference Library in the Capitol numbers 60,000 volumes, pamphlets, and collections of clippings. This library collects information on all subjects of legislation, but the material is chiefly in the field of political science and economics. The State Law Library, also in the Capitol, numbers about 86,000 volumes. Students are allowed to draw books from the Madison Free Library, a collection of 90,000 volumes.

COURSES AND DEGREES

FIRST DEGREES

The University awards the following degrees upon successful completion of the courses indicated:

BACHELOR OF ARTS
- General Course—B.A.
- Course in Commerce—B.A.
- Course in Humanities—B.A. (C.H.)
- Course in Journalism—B.A. in Journ.

BACHELOR OF PHILOSOPHY
- General Course—Ph.B. (Gen. C.)
- Normal Course—Ph.B. (Nor. C.)

BACHELOR OF LAWS
- Law School—LL.B.

BACHELOR OF MUSIC
- School of Music—B.M.

BACHELOR OF SCIENCE
- Agriculture (Long Course)—B.S.A.
- Course in Applied Arts—B.S. (A.A.)
- Chemistry Course—B.S. (Ch.C.)
- Chemistry-Commerce Course—B.S. (Ch.C.C.)
- Chemical Engineering Course—B.S. (Ch.E.)
- Civil Engineering Course—B.S. (C.E.)
- Electrical Engineering Course—B.S. (E.E.)
- Home Economics Course—B.S. (H.E.)
- Hygiene (Five-Year Nursing) Course—B.S. (Hyg.)
- Industrial Education Course—B.S. (Ind. Ed.)
- Mechanical Engineering Course—B.S. (M.E.)
- Medical Science Course—B.S. (Med.)
- Mining Engineering Course—B.S. (Min.E.)
- Pharmacy (Four-Year) Course—B.S. (Pharm.)
- Physical Education Course—B.S. (Phys.Ed.)

GRADUATE IN PHARMACY
- Pharmacy (Three-Year) Course—Ph.G.

The title Graduate in Agriculture is conferred upon students who complete the Middle Course in Agriculture, and the title Graduate Nurse upon graduates of the Nursing Courses.

A graduate of any course may receive the baccaleaureate 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.

HIGHER DEGREES

The University confers in course, the degrees of Doctor of Philosophy, Doctor of Medicine, 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 degree. 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 Master of Arts or Master 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. For conditions under which these higher degrees are granted, see "Graduate School."

GENERAL ACADEMIC REQUIREMENTS

ADVISERS. Upon being admitted to the University, each student is assigned to a member of the faculty who acts as his adviser. The duties of the adviser are to assist the student in selecting his subjects so as to secure a well-rounded education, as well as to aid him in interpreting the requirements and to oblige him to meet them in their proper sequence. The responsibility for the selection of courses rests, in the final analysis, upon the student and it is not the province of the adviser to refuse approval of a course which the student is entitled to elect. Similarly, it is the primary duty of the student to meet the requirements of his course in their proper order, so that he may not, in his senior year, find himself ineligible for graduation. At the opening of each semester the student is required to consult his adviser concerning his choice of studies, and the adviser must approve the student's elections before he is permitted to enter classes.

EXAMINATIONS; GRADES. Two-hour examinations are held at the close of each semester, and one-hour examinations are held in all elementary and most advanced courses once to three times during a semester. No special semester examination will be given except by authorization of the faculty. Final grades are made up at the close of each semester, but mid-semester reports are also turned in for all freshmen and for students whose work has been unsatisfactory.

CREDITS AND POINTS. The unit used in computing the amount of work required for graduation is the credit, which represents one hour of class work per week for one semester, together with the necessary preparation. Two or sometimes three hours of laboratory work are considered as the equivalent of one hour of class work. In order to receive a degree, the student must gain not only the number of credits required in the course which he is pursuing, but his studies must reach a certain average of excellence. This standard is fixed by the grade-point system, which requires for graduation from any course as many points as credits. The following table shows the university scale of grading, together with the number of points per credit for each grade:

GRADE		PERCENTAGE	POINTS PER CREDIT
A	(Excellent)	93–100	3
B	(Good)	85–92	2
C	(Fair)	77–84	1
D	(Poor)	70–76	0
E	(Condition)	60–69	0
F	(Failure)	Below 60	0

The maximum number of points that can be secured by a student graduating in a course which requires, for example, 120 credits, is 360; the minimum, 120. It is evident that an average grade of C is necessary for graduation. Students who, by reason of poor grades, fall behind in the required number of points are ineligible for graduation. Thus a student may readily determine his relative progress.

ATTENDANCE. Students are required to be present at the opening of the semester and to remain until the work of the semester is finished. It is expected that every student will be present at all of the classes at which he is due. If at any time a student is absent, he must satisfy his instructors that such absence is for good and sufficient cause. Any student who is absent from recitations immediately preceding or following Thanksgiving day or the Christmas or spring recess without an excuse acceptable to the dean of his college will be excluded from the semester examinations in those subjects from which he was absent and will be required to write special examinations during the following semester. This rule also applies to absences at the opening of the second semester.

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 obligations of regular attendance, preparation, recitation, or examination, and receive no credit toward graduation. Others may be admitted as auditors only with the consent of the dean; they are required to register, pay the regular fees, and to have class cards for the courses they elect to attend.

HONORS AND PRIZES

SOPHOMORE HONORS. Sophomore honors and high honors are awarded on the basis of a minimum of two full years' work, not less than 60 credits, completed in residence at the University. A student securing during these two years 135 grade-points, plus 1½ grade-points for each credit above 60 required in his course, will be awarded Sophomore Honors; a student securing during these two years 165 grade-points, plus 2 grade-points for each credit above 60 required in his course, will be awarded Sophomore High Honors.

SENIOR HONORS. Senior honors and high honors are awarded on the basis of the academic requirements for the second half of any four-year course. A student securing 135 grade-points, plus 1½ grade-points for each credit above 60 required in his course for completing the second half, will be awarded Senior Honors; a student securing 165 grade-points, plus 2 grade-points for each credit above 60 required in his course for completing the second half, will be awarded Senior High Honors. Any student who has been permitted to carry more than the minimum number of credits during the first two years of his course and less than the minimum during the last two years, will not thereby be barred from securing senior honors.

THESIS HONORS. Senior thesis honors are awarded at commencement to students who have written exceptionally fine or original theses, without reference to their other work.

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*. Unused income is added annually to the principal. The fund now amounts to $625.00.

EDNA KERNGOOD GLICKSMAN PRIZE. "This prize, perpetuating the memory and influence of Edna Kerngood Glicksman and awarded each year to a member of the senior class in recognition of intellectual attainments, high womanhood, and service in the college community," was awarded in 1929 to Miss Sylvia E. Meyer.

THE THEODORE HERFURTH EFFICIENCY PRIZE. Mr. Theodore Herfurth, of Madison, has offered a prize of $100 to a senior male student who shows greatest evidence of initiative and efficiency. In 1929 the award went to Wallace M. Jensen.

JUBILEE MEDAL. The award of this medal, a reproduction in gold of the medal designed for the University at the time of its fiftieth anniversary, was established by the cooperation of the Departments of Economics, History, and Political Science in recognition of the best senior thesis in those three departments, and is awarded annually at Commencement. The Departments of Philosophy and Sociology are now included in the competition. The medal for 1929 was awarded to Miss Berniece N. Lotwin.

LEWIS PRIZE. In 1865, Governor James T. Lewis gave $100 and in 1866 another $100 to constitute a fund the income of which was to purchase an annual scholarship medal. In 1873, with the consent of the donor, it was decided to use the income as a prize for the best undergraduate essay. By 1905 the fund had grown to over $300 and 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 $700, is to be paid from the general account of the University. The prize is awarded to that member of the freshman class taking full work and regularly enrolled in freshman English who shall write the best theme, under conditions determined by a committee of the instructors in English 1. The prize for 1929 was awarded to Miss Grace P. Follett.

MITCHELL PRIZE. In June, 1921, Mr. William M. Chester of Milwaukee offered a gold medal in memory of John Lendrum Mitchell, a member of the Class of 1917 who lost his life while serving as an aviator in the American Expeditionary Force in the World War, the medal to be awarded annually for the best essay on industrial relations. The medal for 1929 was awarded to Miss Ernestine L. Wilke.

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 annually posts on various bulletin boards the conditions of competition. The prizes for 1929 were awarded to Clarence Weinstock and Adrian D. Kuepper.

STUDENT EXPENSE

UNIVERSITY CHARGES

The University reserves the right to alter any of these charges without notice.

TUITION. No tuition is charged to residents of Wisconsin, except in the Library School ($25 per semester for residents and $50 for non-residents), and the Wisconsin High School ($8 per quarter for residents and $15 for non-residents); a fee of $100 per semester is charged to students who are non-residents of this state, as defined in the following excerpt from Section 36.16 of the Wisconsin Statutes:

"Any student who shall have been a resident of the state for one year next preceding his first admission to the University, or any minor student whose parents have been bona fide residents of the state for one year next preceding the beginning of any semester for which such student enters the University, shall, while he continues a resident of the state, be entitled to exemption from fees for non-resident tuition, but not from tuition, incidental, or other 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 non-resident tuition fees until he shall have attended the University for four academic years; but if he shall have attended the University and thereafter shall continuously have been a resident of this state for a period of combined attendance at the University and subsequent residence in the state of not less than four years, he shall, while he continues a resident of the state, be entitled to exemption from payment of the non-resident tuition fee upon reentering the University."

FEES AND DEPOSITS. Each student is required to pay a general fee of $20.50 per semester, covering incidentals, infirmary service, and Memorial Union membership. Students who are paid-up life members of the Memorial Union are entitled to a deduction of five dollars from the general fee. See Summer Session and College of Agriculture for special fees charged in these divisions. The laboratory fees and deposits charged in the various subjects are stated in the announcements of the departments of instruction. A library deposit of $2.00 is required of each student when he first matriculates. Fees are not refundable, except as specified below under Refunds; deposits cover loss of or damage to equipment and are refundable in whole or in part.

PAYMENT. All fees must be paid at the beginning of each semester. Until this has been done, the student will not be considered regularly matriculated and cards entitling him to admission to classes will not be issued. A fine of three dollars ($3.00) is charged for late registration, applicable to all students paying fees after the regular registration days, with no exemptions for any reason. The Bursar is required not to accept fees from any student who does not pay promptly after his registration card is issued. Students entering after half a semester or term has elapsed pay half the prescribed tuition fees.

REFUNDS. The Bursar, upon recommendation of the Registrar, is authorized to make partial refunds of semester tuition and fees on the following basis to students withdrawing from the University: withdrawal within two weeks from the first day of instruction, 80% refund; within four weeks, 60%; within six weeks, 40%; within eight weeks, 20%; after eight weeks, no refund. Students entering after regular registration days and withdrawing within eight weeks from the first class day will, upon recommendation of the Registrar, be allowed refunds according to the above schedule based on the time actually in residence.

The full amount of fees paid will be returned to students who for any 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. No fees are refunded in case a student is suspended for disciplinary reasons.

GRADUATE STUDENTS. In general, graduate students are required during the regular year to pay the same fees as are undergraduates, with the following exceptions: (a) regular graduate fellows and scholars are exempt from the non-resident tuition fee only; (b) honorary fellows and scholars are exempt from both the non-resident tuition fee and the general or incidental fee; (c) instructors and graduate assistants are exempt from the non-resident tuition fee and from laboratory fees in courses taken in the departments in which they hold appointments.

The following classes of graduate students who are candidates for higher degrees shall be entitled to exemption from the non-resident tuition fee but shall pay such other fees as may be required of graduate students who hold no official appointment: members of the teaching and research staffs of the University, graduate fellows, graduate scholars, members of the State Geological and Natural History Survey, members of the technical staff of the Forest Products Laboratory, staff members of the United States Department of Agriculture stationed at the University and engaged in research, technical experts employed in any department of the state government, and officers of the United States Army detailed as students by proper authority. However, when any such person shall have paid to the University as a graduate student seven semester or summer session fees, he shall be exempt from further payment of general fees or summer session fees. In the administration of this rule, one, but only one, nine-week summer session fee or its equivalent may be counted as two of the seven fees above mentioned; also, the full amount of any prescribed fee shall be charged.

Graduate students who are not residents of the state and 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 securing the recommendation of the Dean of the Graduate School to the Registrar that the case comes under this rule and that he regards it as one of more than common merit. However, the prorated fee shall not be less in amount than the general fee for the semester.

SELF-SUPPORT

The University Student Employment Office is maintained to assist in finding employment for those men and women students who are partly or wholly self-supporting during their attendance at the University.

Students who have good health, reasonable ability, and a real desire for a college education can make part or all of their expenses by saving what can be earned during the summer vacation and by working part-time during the school year. Students should realize that to do this requires hard work, the sacrifice of some good times, constant application to studies, responsibility in whatever outside work they undertake, close attention to physical fitness, and careful management of funds. Many working students carry a reduced schedule of classes; the number of credits depends upon the ability of the student and the number of hours of outside work.

Students coming to the University for the first time should have enough to pay all necessary expenses for at least the first semester ($225 to $275), exclusive of tuition fees, clothing, and traveling expenses, so that they may have time to get well started with studies and to find the work best suited to their needs and abilities. See also summary of expenses below.

It is not practicable to make definite arrangements for a position before coming to Madison. In the first place, the employer usually requires a personal interview; in the second place, changes may occur in the plans of either student or employer, so that arrangements made in advance often do not materialize and disappointment results. Neither is it a good plan to come a long while in advance with the idea of finding work, as most employers do not know their needs definitely until a week or ten days before the opening of the school.

As several hundred students apply for work at the opening of the school year, competition is keen. It is impossible to place all of the applicants at once, and often many must wait several days or weeks before finding suitable employment. Only those who are willing to do whatever is available can expect to earn their expenses. As far as possible, applications for employment are filled in order; but as the kinds of work available are of a widely varied nature, those students who are best qualified for the work must, in fairness to the employer, be considered first.

Students who desire further information in regard to self-support should write to the University Student Employment Office, Union Annex, 772 Langdon Street, Madison.

SUMMARY OF EXPENSES

Although it is difficult to give a definite set of figures which would be applicable to the "average" student, the following table may suggest the expenses which various individuals might be expected to incur during a single academic year, exclusive of clothing, transportation to and from Madison, and non-resident tuition fee.

	Lowest	Average	Highest
Board	$ 200	$ 260	$ 325
Laundry (*if mailed home)	10*	50	75
Sundry personal expenses	50	150	300
Room rent—			
Men's dormitories	130	160	180
Women's dormitories	130	160	160
Double room, per person	90	125	200
Single room	150	175	250
Fees, textbooks, etc.	65	125	200
	$ 415	$ 745	$1150

LOAN FUNDS AND UNDERGRADUATE SCHOLARSHIPS

Information relative to loan funds and scholarships may be secured from the Chairman of the Committee on Loans and Scholarships, except as specifically noted in the following paragraphs.

SCHOLARSHIPS

LEGISLATIVE SCHOLARSHIPS—Section 36.16 of the Wisconsin Statutes provides that: "The Regents of the University may remit non-resident tuition either in whole or in part, but not other fees, to a number of needy and worthy non-resident students, not exceeding 8 per cent of the number of non-resident 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." These scholarships are available for graduates as well as undergraduates; see under the heading Graduate School. The total number of these scholarships is about 235.

WISCONSIN SCHOLARSHIPS—The Regents have appropriated the sum of $5,000 annually for undergraduate scholarships to be known as the Wisconsin Scholarships, consisting of 50 scholarships of $100 each. Applicants for the Wisconsin Scholarships must be first-year students who can register as residents of Wisconsin, who are in need of financial assistance, and who show worth and ability during the first semester. These scholarships are awarded during the second semester by the Regents upon recommendation of the regular faculty committee on undergraduate scholarships, to whom application should be made.

AMERICAN ASSOCIATION OF UNIVERSITY WOMEN SCHOLARSHIPS—In May, 1917, the Madison branch of the American Association of University Women made available a scholarship of $100 for a University girl, preferably one who has finished her junior year. In 1922 the amount was increased to $200 to provide two scholarships.

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

RUDY HOHLFELD MEMORIAL SCHOLARSHIP—In April, 1926, Professor and Mrs. A. R. Hohlfeld established this scholarship in memory of their son, Rudolf Libbert Hohlfeld, B.A., 1923, who lost his life on November 28, 1925, while engaged in geological survey work in eastern Peru. The recipient of the scholarship is to be a young man of the junior or senior class of the College of Letters and Science who is an able and promising student, actively interested in athletics, and of strong, upright character. Other things being equal, candidates majoring, or at least doing a considerable part of their work, in geology are to be given prior consideration. A student who has held the scholarship during his junior year may be reappointed for a second year as senior. The scholarship at this time amounts to $200 per year.

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

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.

KOHLER FAMILY SCHOLARSHIPS—In June, 1927, a gift of $20,000 was received from the Kohler family, of Kohler, Wisconsin, to endow two annual scholarships to be known as the Kohler Family Scholarship for Girls and the Kohler Family Scholarship for Boys. The scholarships are created to encourage attendance at the University by deserving graduates of the public high school of the village of Kohler whose intention it is to complete a four-year course.

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.

LAVERNE NOYES SCHOLARSHIPS—The Trustees of the LaVerne Noyes Estate offer a limited number of scholarships to the University, equal in amount to the tuition plus laboratory fees, to students who have participated in the Great War, or to the children of men who have. Applications should be made at the beginning of the academic year, to the Chairman of the Committee on Loans and Undergraduate Scholarships.

OMICRON NU SCHOLARSHIP—Omicron Nu, an honorary organization of home economics students established in 1919, provides a scholarship of $250 annually for a woman in the Home Economics Department of junior, senior, or graduate rank.

HARLAN B. ROGERS ATHLETIC SCHOLARSHIP—The will of the late Viola J. Rogers, of Portage, included a bequest to the University of $5,000 to establish the Harlan B. Rogers Athletic Scholarship, the income to be used each year as provided in the will. The first award was made during the year 1929–30.

SOUTH AMERICAN SCHOLARSHIPS—The Regents have made available to South American students three scholarships of $224 each. For information address the Secretary of the Regents.

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 on 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.

J. STEPHENS TRIPP SCHOLARSHIP—In April, 1923, the Regents placed $10,000 of the money received from the Tripp Estate in a separate fund in the University Trust Funds to establish the J. Stephens Tripp Scholarship, the income each year to be paid to a student, graduate or undergraduate, from Sauk County, Wisconsin.

MARTHA GUNHILD WEEK SCHOLARSHIP—In December, 1923, the University received $5,000 from the estate of Martha Gunhild Week, of Stevens Point, to establish the Martha Gunhild Week Scholarship. The income each year is to be awarded to a woman undergraduate in chemistry, the candidate to be named and recommended to the Regents by the faculty of the Chemistry Department.

WOMEN'S ATHLETIC ASSOCIATION SCHOLARSHIP—The Women's Athletic Association has established a scholarship in the amount of $100 per annum, which is awarded to an undergraduate woman.

JULIUS G. O. ZEHNTER ENDOWMENT FUND—The late Julius G. O. Zehnter, of Madison, provided for a bequest to the University of Wisconsin of $10,000, the income to be expended for and used by the German Department of the University. The first award from this fund was made during the year 1929–30.

LOAN FUNDS

The loans made by the University of Wisconsin are for emergency purposes only, inasmuch as the funds are not large enough to permit sustaining loans to be made.

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. For information address the Dean, College of Engineering.

EMERY LOAN FUND—In 1900 a fund was started by Miss Annie Crosby Emery, formerly Dean of Women, which is loaned to needy women students on recommendation of the Committee on Loans and Scholarships.

ARTHUR END MUSIC LOAN FUND—In 1919 the Arthur A. End music loan fund was established as a memorial by his mother, Mrs. Mary B. End, of Sheboygan, Wisconsin, with an initial payment of $100, to be loaned to students of music. For information address the Secretary of the Regents.

CORA RODERMUND EVANS LOAN FUND—In 1926 a bequest of $5,000 was made to the University from the estate of Mrs. Cora Rodermund Evans, with a provision in the will stating that the income from this amount is to be loaned to deserving students in the Medical Department of the University.

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 on which is loaned to students. The principal of this fund now amounts to about $30,000. The sum obtained by one student in one year shall not exceed $50, and the total amount shall not exceed $200.

KEMPER K. KNAPP LOAN FUND—On January 16, 1924, the Regents accepted the gift of $5,000 from Kemper K. Knapp, of Chicago, for a fund to be used as a student loan fund. Since that time Mr. Knapp has increased the fund to $15,000. Loans are made under the following and such other regulations as the Regents may adopt: (1) loans to be made to students in attendance at the University of Wisconsin; (2) each loan before being made to be recommended by a committee of the faculty; (3) each loan to draw interest at the rate of three per centum per annum for the first term and at the rate of six per centum for each renewed term; (4) no loan or renewal of a loan to be made for a longer term than one year.

KUPPENHEIMER LOAN FUND—Mr. Albert B. Kuppenheimer, of Chicago, donated $1,000 in December, 1916, to establish a loan fund open to all men students under the following conditions: (1) loans not to exceed one year; (2) joint signatures of responsible parties required; (3) interest, only after maturity, at six per cent; (4) administration to be in the hands of the general university loan committee.

THOMAS J. MARSTON LOAN FUND—This fund was established in 1925 by a bequest from Mrs. Annie G. Marston in memory of her husband, the income to be used for the purpose of assisting poor, worthy, competent students in pursuing their undergraduate studies in the University. The principal of the fund now amounts to approximately $23,000.

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.

ISRAEL SHRIMSKI LOAN FUND—In 1929 A. B. Kuppenheimer and John Wineberg of Chicago, friends of Israel Shrimski, a distinguished alumnus of the University of Wisconsin, gave $12,500 to perpetuate his memory. Loans are made under regulations similar to those governing the Kemper K. Knapp Fund.

ISRAEL SHRIMSKI STUDENT AID AND LOAN FUND—In 1929 the Regents received $2,000 from the estate of Israel Shrimski, as provided in his will. The money is to be loaned in such amounts and under such terms and conditions as the Committee on Loans and Scholarships may from time to time determine.

LOAN FUND FOR PHARMACY STUDENTS—This fund was established in 1928 by the Milwaukee Chapter No. 19, Women's Organization, National Association of Retail Druggists, with an initial payment of $400. This fund is to be increased to $1,000. The income only is to be loaned to students in pharmacy, and preference is to be given to women.

HENRY STRONG LOAN SCHOLARSHIP—The Henry Strong Educational Foundation offers a limited number of loan scholarships ranging in value from $100 to $150 for a four-year term without interest. Applicants must indicate their financial need and present a good record for at least one year at the University of Wisconsin.

THE MAJOR LYMAN C. WARD MEMORIAL LOAN FUND—In 1919 a gift of $100 was received for the establishment of the Major Lyman C. Ward Memorial Loan Fund, the money to be loaned to men students only and preferably to undergraduates.

SECRETARY'S LOAN FUND—The Secretary of the Regents in 1900 established a fund of $500 for the aid of meritorious students. Additions to the fund have been made by others. No loan shall exceed $50 in a single year, and the aggregate of loans to any person shall not exceed $200. The principal of this fund now amounts to about $2,600. For information address the Secretary of the Regents.

AGRICULTURAL COLLEGE LOAN FUND—In 1911 Albert B. Kuppenheimer, of Chicago, gave $750 to establish a loan fund in the College of Agriculture. In 1916 the outstanding balance of the Geneva Loan Fund was consolidated with the Kuppenheimer Fund, making a total of $1,500. This is loaned to needy students in small amounts with interest at six per cent after maturity. For information address the Dean, College of Agriculture.

COLLEGE OF ENGINEERING LOAN FUND—The College of Engineering Loan Fund was started in 1901 by a friend of the college in Milwaukee, to be used for the assistance of needy students. It has been added to at various times until it now amounts to about $1,800. For information address the Dean, College of Engineering.

WISCONSIN ENGINEER LOAN FUND—In 1923 the Wisconsin Engineer, a student publication, gave $500 to establish the Wisconsin Engineer Student Loan Fund. A further gift of $500 was received in 1928. Loans are made upon recommendation of the Dean of the College of Engineering. Students borrowing from the fund are informed as to the source of the money, and a report is to be made each year to directors of the Wisconsin Engineer, showing the use to which the money has been put. If the Wisconsin Engineer prospers in the future as it has in the past, substantial additions will be made to the fund.

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.

CLASS OF 1885 LOAN FUND—In March, 1916, the Class of 1885 established a small loan fund for needy students.

CLASS OF 1912 LOAN FUND—The Class of 1912 left the balance in the class fund, amounting to $850, to establish a loan fund. The money was placed in the University Trust Fund and allowed to accumulate for ten years; the interest is available for loans. The principal of the fund now amounts to some $1,800.

CLASS OF 1913 LOAN FUND—The Class of 1913 turned over the proceeds of the class play, amounting to $396.48, and a number of the members of the class took out twenty-payment life insurance policies of $100 in the state life insurance fund. Dividends on these policies and interest earnings on the fund have been added annually. The principal of the fund now totals about $2,600. When the policies mature in 1933 the income each year will be loaned to students.

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 $1,500.

CLASS OF 1916 MEMORIAL LOAN FUND—The Class of 1916 established a loan fund now amounting to approximately $1,400. Principal and interest are to be loaned to students for periods of not to exceed one year; not more than $50 is loaned to one person. Three per cent interest is to be charged, with six per cent after maturity.

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.

MRS. WILLIAM F. ALLEN MEMORIAL LOAN FUND—In 1925 a bequest was made to the University from the estate of Mrs. William F. Allen, and the former University League Loan Fund was merged with it. The fund now amounts to over $2,500 and is available for loans to women students upon recommendation of the Committee on Loans and Scholarships.

ROOM AND BOARD

The University owns and operates two dormitories for women, Chadbourne and Barnard Halls, accommodating about 275 students; also two for men, Adams and Tripp Halls, accommodating 500 students. In addition, there are five so-called cooperative houses, Tabard Inn, Charter House, Andersen House, Catherine Cleveland House, and Fallows House, where a total of 95 women students is accommodated. The occupants of these houses are usually chosen from students who have been in attendance at the University at least one semester, but a few rooms in each house are available for new students who come well recommended. Students living in these cooperative houses keep their expenses considerably lower than is possible elsewhere; for example, board is obtainable for $190 to $200 a year, instead of $225 to $250; rooms are from $90 to $150 a year. Information regarding these houses may be secured from the Dean of Women.

Special interest houses open to women for both room and board include La Maison Française, La Casa Cervantes, Das Deutsche Haus, and Arden House, operated under the auspices of the departments of French, Spanish, German, and English respectively. Both men and women rooming outside may take their meals at these houses.

All other students are dependent for rooms upon commercial dormitories, private rooming houses, the Y. M. C. A. building, and the various fraternity, sorority, and club-houses. The prices of single rooms outside of university dormitories range from $4 to $10 a week. A few double rooms can be secured for $2.50 a week per student, but the more desirable ones rent at $3 to $5 per student.

Lists of approved rooming houses for men and for women are prepared by the Dean of Men and Dean of Women respectively, from whom copies may be obtained. However, the supply of available rooms is ample, and, inasmuch as all arrangements for student rooms hold for an entire semester under ordinary circumstances, students are urged not to engage rooms which they have not seen, but to wait until they arrive in Madison before renting. All houses listed by the Dean of Women have been inspected by the staff of her office, and, although responsibility cannot be assumed by the University, such houses are believed to be suitable homes for women students. They accommodate women exclusively and in each case a parlor is provided for the reception of visitors. Permission to live in houses other than those inspected and approved is given only by the Dean of Women, and such permission must be secured before the student engages a room.

Dining rooms are maintained in Chadbourne and Barnard Halls and in connection with the men's dormitories. In the Memorial Union the University provides a variety of dining services for students not living in dormitories. The combined dining rooms in the Union accommodate two thousand students a day. The Refectory, the largest room, serves three meals daily, cafeteria style; the Georgian Grill serves a la carte and table d'hote meals noon and night; and the Rathskeller provides light lunch and bar service for men at all times. In addition, seven private dining rooms are available to students for private dinners or banquets of any size. In private boarding houses and cafeterias, board ranges from $6 to $9 a week.

DORMITORIES FOR WOMEN

In Chadbourne Hall, accommodating 125 women, and Barnard Hall, accommodating 150 women, each room is provided with dresser, rocker, cot, bookshelves, rug, and study table, lamp, and chair. During the regular school years, students are expected to provide towels, sheets, pillow cases, blankets, and couch covers. During the summer session, sheets, pillow cases, counterpanes, and two light-weight cotton blankets are furnished, but towels are not.

Women living in the dormitories are under the immediate charge of the hostesses of the halls and are subject to the rules of the Women's Self-Government Association of the University.

The rent for the school year of a single room in either Chadbourne or Barnard Hall is $160; of a room accommodating two, $130 per person; of two rooms *en suite* accommodating two, $160 per person. A few single rooms on the fifth floor of Barnard Hall are rented for $130 per student. Residents of Chadbourne and Barnard Halls are required to 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. The price of board has been fixed at $250 for the academic year, including the time from the beginning of classes in September to the last day of examinations in June, exclusive of Christmas and spring recesses.

DORMITORIES FOR MEN

Tripp and Adams Halls, modern fireproof buildings situated on the lake shore, are each designed to house about 250 men. Each hall is a quadrangle divided into houses accommodating about thirty men; each house is thus an independent unit with its own entrance, social rooms, toilet and shower facilities. This arrangement of units enables the men to become banded together in a congenial comradeship for social purposes and for participation in intramural athletic tournaments. The rooms are furnished in a comfortable and sturdy masculine style with chiffonier, bed, study table, lamp, and chair, bookshelves, arm chair, rug, waste-basket, and curtains. Bed linen, a bed cover, and two wool blankets are supplied and laundered by the University, but students are expected to furnish towels and to provide for their personal laundry.

Residents are subject to the regulations of the Men's Dormitory Association, a self-governing body, and are expected to cheerfully comply with the requirements and obligations of this association, including the payment of the semester dues of $5. There are very definite regulations governing quiet hours and conduct at social functions and in the dining halls. The university rules applying to all organized groups are in effect and enforced in the dormitories. A group leader known as the dormitory fellow has immediate charge of the men in his unit; his office is to give counsel and help in building up a strong social organization, and to aid the men in profitably pursuing their college careers.

The rent of a single room for the academic year is $160; of a double room $130 per person; of three-window end rooms, $180; and of two-window corner rooms, $170. There is only a very limited number of double rooms. Residents of the men's dormitories are required to take their meals in the adjacent refectory, in which there are also accommodations for a number of other men students. Board has been fixed at $260 for the academic year, including the time from the beginning of classes in September to the last day of examinations in June, exclusive of Christmas and spring recesses.

DORMITORY REGULATIONS

In accordance with an act of the Legislature of 1913, preference in the assignment of rooms in these halls is given to residents of the state of Wisconsin. When assignments are made for the following year, students living at one of the halls will be given preference over those who have not had such residence. Certain quotas by classes (freshman, sophomore, etc.) have been established; these are maintained until July 15, after which date all unassigned applicants constitute the general waiting list in order of deposit.

The halls and dining rooms are closed during the Christmas recess; during the spring recess the halls are open but the dining rooms are closed. University regulations require that board and room be paid in advance, board by the quarter and room by the semester.

Applications for rooms will not be received until April 1; these should be sent to the Bursar of the University, together with a deposit of $10 and a statement of the student's choice of dormitory, the permanent home address, and an indication of the class he will enter. Room assignments will be made beginning May 1.

Written acceptance of assigned rooms for the year must be received by the Department of Dormitories and Commons not later than September 1 or, for the second semester, January 8, or the deposit will be forfeited and the room reassigned. Those accepting rooms must take possession by 8 a. m. of the last registration day of the first semester, or the corresponding date of the second semester, or forfeit their deposit and room, unless written notification of late arrival is received by the department before that time and the room and board bill for the period is paid in advance. When a person remains on the waiting list after September 1, or January 8 in case of the second semester, the deposit will be forfeited if an assignment is made before the beginning of classes and is not accepted or rejected promptly.

After a room has been assigned and accepted, a refund of the deposit is made only when the student has fulfilled his term of residence as indicated on the lease form. The deposit will then be refunded as promptly as practicable, providing the student has met all obligations to the department—that is, paid all bills, left all equipment in the room intact, and turned in his key. If a student withdraws from the dormitory during the year for any reason, his deposit will be forfeited. Unassigned depositors may claim a refund at any time.

All rooms are assigned for the entire academic year and the student will be held for the rent of the room for the year, or until it is filled from the waiting list. Students withdrawing must make satisfactory arrangements with the Department of Dormitories and Commons in advance.

Rooms will be ready for occupancy in September at 8 a. m. on the Wednesday preceding the beginning of instruction. Baggage marked with hall and room number will be received beginning the same day.

Requests for information regarding rooms, board, rates, assignments, and refunds should be addressed to the Department of Dormitories and Commons.

STUDENT LIFE

Much of the life and activity of students outside the classroom is concentrated in the University's new "living room," the Memorial Union, a splendid building erected and equipped at a cost of $1,250,000, largely through the generosity of more than 18,000 students, alumni, faculty, and friends of the University. Among the physical facilities of the Union are: cafeteria, large and small dining rooms, grill room, and lunchrooms; rooms for games, music, committee meetings, and assemblies; quarters for student publications and clubs; combined ballroom and banquet hall; library; spacious lounge; barber shop; writing room; checkrooms; alumni offices; and lodgings for transient alumni and visiting teams. By virtue of this wide range of facilities, the Memorial Union opens to the university community heretofore unequalled opportunities for formal and informal social gatherings of diverse types.

Upon registration and payment of his or her semester fees, including an amount of five dollars set aside for the maintenance and operation of the Memorial Union, each student automatically becomes a member of the Union and is entitled to all the privileges of the building during the semester. Life members of the Union (students who have paid a total of fifty dollars in Memorial Union fees or by subscription) are exempt from further payments and are accorded the privileges of the building for life.

FACULTY SUPERVISION

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 gladly confer with parents or guardians regarding individual men students, and he is anxious to get in touch with boys who are contending against illness, discouragement, financial worries or other obstacles to successful work in college. His office issues mimeographed lists of lodgings and rooming houses for men students, with detailed information.

The academic and social welfare of women students is under the direct supervision of the Dean of Women, whose office is located in Lathrop Hall, a building designed for the use of women students. The dean and her staff of assistants invite correspondence with parents and guardians of women students and gladly cooperate with them in matters affecting their welfare. For the benefit of those women who cannot be accommodated in Chadbourne and Barnard Halls, the dean's office prepares annually lists of rooming and boarding houses for women students. New students desiring rooms should report at once to her office upon arrival in Madison.

STUDENT HEALTH

THE DEPARTMENT OF STUDENT HEALTH was initiated by the University for the protection and adequate care of the health of students. Upon first admission to the University, *each student, including those in the Graduate School,* is obliged to undergo a medical examination for the purpose of determining his medical and physical status. Based on the findings of this examination, special recommendations are made to the dean of the student's college and to the Divisions of Physical Education and Military Science to safeguard the interests and health of the individual.

Students are notified at the time of registration when and where to report for examination and *they must be punctual in keeping such appointments, assured that these take precedence over all class work.* Excuses for any class or laboratory work missed on account of the medical examination will be granted in every instance. Where, in the case of graduate students, teaching hours conflict with the pre-arranged time for the compulsory medical examination, *an immediate phone call* to the Student Health Department will secure for such applicants *another appointment at a mutually convenient hour.*

The chief function of the service is to prevent illness in the student population. In order to accomplish this aim, the cooperation of each student is necessary, since the protection of the whole depends upon the maintenance of health in the individual. Whenever illness occurs, the medical staff is ready to meet the need of the individual. Consequently, the prompt reporting of illness works to the advantage of both the individual and the community.

THE AMBULATORY CLINIC, situated on the first floor in the east wing of the new Wisconsin General Hospital, maintains an adequate staff of physicians and nurses for the needs of all students able to report in person. Hours for consultation are 8 a. m. to 12 noon and 2 to 4 p. m. on week days, excepting Saturday afternoon, and 9:30 to 10:30 a. m. on Sunday; students are requested to observe these hours except in emergency cases. A member of the staff will see or visit emergency cases at any hour with an appreciation of the grave possibilities of minor illness. The early attention to each and every indisposition is encouraged.

THE STUDENT INFIRMARY, a modern hospital building adjacent to the new general hospital, provides facilities for the care of students who are confined to bed or who need nursing attention. It is desirable that all such students avail themselves of these privileges rather than to remain in their rooms, in order that they may receive adequate medical and nursing attention and that the spread of communicable diseases may be checked.

ABSENCE. Statements of absence from classes because of illness should be obtained promptly through the Clinic or Infirmary as the case may be. Application for excuses must be made within a week after return to classes.

EXPENSE. The clinic is maintained by the University as a part of the administration of general student welfare without expense to the student. The infirmary is supported by $3.50 of the student's general fee and all necessary laboratory and nursing service is rendered without charge to the student. Care of specialists and special nursing in individual cases are matters of extra expense, and arrangements for them may be made through the infirmary staff.

STUDENT GOVERNMENT

THE WISCONSIN UNION

The Wisconsin Union is the organization of all men and women students, created to operate the new Memorial Union Building and to provide a cultivated social program and a common life for its student, faculty, and alumni members. Its chief component parts are the Men's Union, representing the men of the university, and the Women's Self-Government Association, representing the women.

The central governing body of The Wisconsin Union is the Union Council, consisting of eight men and women student members and six alumni and faculty members, all elected or appointed by the bodies of Union members they respectively represent. Assisting the Union Council are twelve house committees, planning for and controlling the several departments of the house: commons, library, program, women's affairs, graduate activities, etc.

The Wisconsin Union is an experiment not only in the integration of a diverse student population and in the enrichment of the hours outside the classroom, but also an experiment in student self-government and self-education.

MEN'S UNION

Every male student in the University is *ipso facto* a member of the Men's Union. Where Wisconsin men are concerned, the Men's Union is concerned; consequently it tries to set up in a subtle way, a set of standards by which the quality of a man at Wisconsin is to be judged, and tries to make it possible for a man to live a full-rounded man's life at the University. Among the more external agencies of which the Union avails itself to accomplish its purposes are: student dances, a winter sports program, the water pageant known as "Venetian Night", a community chest, a concert series which brings the leading musical artists of the world to Madison, and theatrical performances by such artists as the New York Theatre Guild.

The two formal units in the executive machinery of the Men's Union are the Union Board and the Men's Union Assisting Staff. The Union Board is the board of directors of the Men's Union, and it chooses the president and the other officers of the Union from among its own number; the Board is elected by the male members of the student body. The assisting staff supplements the Board in carrying out the principal activities of the Men's Union; its members are chosen by the Board on the basis of effort, interest, and performance during a period spent as candidates in performing routine tasks.

WOMEN'S SELF-GOVERNMENT ASSOCIATION

Every woman student in the University is *ipso facto* a member of the W. S. G. A. 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 dormitory, each sorority house, and each lodging house where more than three girls reside, has one or more representatives on the board.

The Association each year provides entertainment of various sorts for university women, cooperates with Union Board in arranging social events for the whole University, and undertakes, in cooperation with a faculty committee representing different schools and departments and under direction of an assistant in the office of the Dean of Women, the presentation of information concerning various occupations and professions for women through a biennial vocational conference and other mediums. A bulletin of information for freshman women, "If I Were a Freshman Again," is published by the Association and mailed out during the summer.

SOCIETIES AND PUBLICATIONS

LITERARY, FORENSIC, AND DRAMATIC SOCIETIES

The men's literary societies are: Athenae, organized in 1850, and Hesperia, organized in 1854. These societies are interested principally in debating. The women's literary societies are: 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 not extensively to debating. The University is a member of the Western Conference Debate League composed of Northwestern University, Purdue University, and the Universities of Michigan, Illinois, Minnesota, Iowa, Indiana, Ohio, and Wisconsin. Each University meets four others in debate annually. From time to time additional intercollegiate debates are arranged. Wisconsin meets the Universities of Iowa and Minnesota annually in a triangular league for women.

The University regularly competes in the annual contest of the Northern Oratorical League, composed of Northwestern University, Western Reserve University, and the Universities of Iowa, Michigan, Minnesota, and Wisconsin. Positions on the University debating teams are won in open competition, both undergraduate and graduate students in good standing being eligible. The privilege of representing the University in the Northern Oratorical League contest is won in the local David B. Frankenburger contest, open to undergraduates in good standing.

Participation in intercollegiate debating or oratorical contests makes a student eligible for membership in the Wisconsin Chapter of the national honorary forensic fraternity, Delta Sigma Rho, which, together with the Forensic Board, represents the organized student control of forensic affairs in the University.

The general dramatic club, Wisconsin University Players, is composed of both men and women and is open to all students who upon tryout show either sufficient dramatic talent or some special ability in the fields of production or management. The club gives several formal productions during the year in the University Theatre. They also give a series of laboratory plays as open meetings which the public may attend.

Haresfoot Club is a men's dramatic organization devoted to the annual production of an original musical comedy in which all the rôles are taken by men.

MUSICAL ORGANIZATIONS

The University Orchestra, composed of about 75 players, is organized for the purpose of studying the larger classical forms and presenting them in public. Membership is open to qualified students of all classes.

The University Band, consisting of about 200 men, is divided into a concert band and a second band, the latter serving as a training school for the less experienced players. Rehearsals are held two and three times weekly, respectively. Underclassmen playing in the band may receive credit in satisfaction of the physical activity requirement. Upperclassmen who are members of the concert band and who remain for duty at Commencement are compensated for their services to the extent of thirty dollars each.

The Men's Glee Club, incorporated under the laws of Wisconsin, is composed of a concert club and a second club, membership in each of which is determined by competitive tryouts. The concert club makes an extensive annual tour throughout the Middle West and has gained everywhere a most enviable reputation by maintaining the highest standard of chorus singing.

The Girl's Glee Club makes frequent local appearances. Membership is open to all women students and vacancies are filled by competitive trial.

RELIGIOUS ORGANIZATIONS

Prominent among the religious organizations of the University are the Young Men's Christian Association and the Young Women's Christian Association. These organizations maintain secretaries who devote their entire time to religious, social, and philanthropic work among the students. Nine student pastors supported by eight religious denominations, each with its own student organization, cooperate with the secretaries and promote religious work in the student body in a very systematic way.

SOCIAL ORGANIZATIONS

The social life of the undergraduate finds expression in about a hundred fraternities, sororities, and other house groups, and in a great diversity of clubs and societies, many of them organized principally around professional or other special interests but usually embodying a distinct element of comradeship as well. To catalog even the more important of these organizations would serve no very useful purpose, inasmuch as the student, if he has the time and other requisites for membership, usually has no difficulty in making the necessary contacts with organizations of the sort in which he may be interested.

STUDENT PUBLICATIONS

Student publications include the *Daily Cardinal*, a morning newspaper published in its own printing plant adjacent to the campus; the *Octopus*, an illustrated humorous monthly; the *Wisconsin Engineer* and the *Wisconsin Country Magazine*, monthlies edited and managed by students of these colleges and containing material of professional interest; and the *Badger*, a comprehensive and elaborate annual issued under the auspices of the junior class. Positions on the editorial and business staffs of these publications are ordinarily open to all qualified students above the rank of freshman; appointments are made by the various boards of control on the basis of experience and ability.

PROFESSIONAL SOCIETIES

A number of professional clubs and societies for the promotion of interest in specific lines of academic or technical work have been organized and are usually maintained under the guidance of the departments concerned. In other departments where no such organization has been effected, similar results are reached by means of senior and graduate seminaries.

HONORARY FRATERNITIES

The honorary fraternities with the dates of their establishment at Wisconsin are:

Alpha Gamma Pi (Women's Commerce), 1918
Alpha Kappa Delta (Sociology), 1922
Alpha Zeta (Agricultural), 1905
Artus (Economics), 1912
Beta Gamma Sigma (Men's Commerce), 1913
Chi Theta Epsilon (Civil Engineering), 1924
Delta Phi Delta (Art), 1921
Delta Sigma Rho (Forensics), 1906
Eta Kappa Nu (Electrical Engineering), 1910
Gamma Alpha (Graduate Scientific), 1910
Gamma Epsilon Pi (Women's Commerce), 1922
Gamma Sigma (Gymnastics), 1918
Order of the Coif (Law), 1907
Omicron Nu (Home Economics), 1915
Phi Beta Kappa (Academic), 1898
Phi Delta Kappa (Educational), 1921
Phi Eta Sigma (Freshman Scholastic, Men), 1927
Phi Kappa Phi (General), 1919
Phi Lambda Upsilon (Chemical), 1906
Phi Mu Alpha Sinfonia (Men's Musical), 1921
Phi Sigma (Biological), 1917
Pi Epsilon Delta (Dramatic), 1919
Pi Tau Sigma (Mechanical Engineering), 1916
Rho Chi (Pharmaceutical), 1925
Scabbard and Blade (Military), 1905
Sigma Delta Chi (Men's Journalistic), 1911
Sigma Delta Epsilon (Women's Graduate Scientific), 1921
Sigma Delta Psi (Athletic), 1917
Sigma Epsilon Sigma (Freshman Scholastic, Women), 1927
Sigma Sigma (Medical), 1908
Sigma Xi (Graduate Scientific), 1907
Tau Beta Pi (Engineering), 1899
Theta Sigma Phi (Women's Journalistic), 1910

PART III—ADMISSION

ENTRANCE REQUIREMENTS

Entrance requirements are stated in units of high-school work, a term which is not to be confused with the term *credit* as applied to university work. A unit represents five class periods a week in one branch of study for a school year of at least 36 weeks. Two laboratory periods in any science or vocational study are considered as equivalent to one class period. In closely allied subjects, such as botany and zoology, not usually taught throughout the entire year, units may be constructed by adding the respective time values of the subjects. Three periods a week for a year and a half may be counted as one unit.

GENERAL REQUIREMENTS

Fifteen units, distributed as follows, are the fundamental requirement for regular admission to any college or course in the University, except certain special courses in the College of Agriculture, as specified below:

I. Two units of English are required of all entrants; three units are recommended for all and are required of those who do not offer two units of foreign language. One unit of algebra and one of geometry are also required of all, with an additional half or whole unit of algebra recommended for those seeking admission to the College of Engineering.

II. Two units of science or history, or two units of one of the following foreign languages—French, German, Greek, Hebrew, Italian, Latin, Norse, or Spanish—must be presented by all. If foreign language is offered, there must be at least two units in a single language, although in exceptional cases one unit may be offered as the optional subject.

III. The remaining units necessary to bring the total to fifteen must be offered from Groups A and B, with a maximum of four units from Group B and a total of not more than four units in any single subject.

GROUP A

	Units
English	1—2
Foreign language	
French	1—4
German	1—4
Greek	1—3
Hebrew	1—2
Italian	1—2
Latin	1—4
Norse	1—2
Spanish	1—4

	Units
History and Civics	
History	1—4
Civics	½—1
Economics	½
Mathematics	
Advanced algebra	½—1
Solid geometry	½
Trigonometry	½

	Units
Science	
Botany	½—1
Biology	1
Chemistry	1
General science	½—1
Geography	½—1
Physics	1
Physiology	½
Zoology	½—1

GROUP B

Agriculture		1—4
Bookkeeping		½—2
Commercial law		½
Commercial arithmetic		½
Commercial geography		½
Business organization	If taken in the junior or senior year	½
Office practice		½
Salesmanship		½
Shorthand		2
Typewriting (only ½ unit if not combined with shorthand		½—1
Domestic art		1—2
Domestic science		1—2
Drawing, art, and design		1—4
Mechanical drawing		1—4
Shop work		1—2
Shop work and drawing		1—4
Music		1—4
History and appreciation		1
Theory and harmony*		2
Choral music		½—1
Orchestra		½—2
Band		½—2
Applied music		½—2
Optional (not including drill subjects such as penmanship, physical education, or military training)		½—1

*Not less than 2 units accepted.

SPECIAL REQUIREMENTS

COLLEGE OF AGRICULTURE. For admission to the Short Course and Dairy Courses, students must be at least sixteen years of age and must have a good common school education. Candidates for the Winter Dairy Course are required to have at least six months' experience in a creamery or cheese factory before being admitted.

COLLEGE OF ENGINEERING. Students planning to enter this college are advised to include in their high-school work the following subjects: 1½ or 2 units of algebra, 1 unit of plane geometry, ½ unit of solid geometry, 3 units of English, 2 units each of science and history, and 2–4 units of foreign language.

LAW SCHOOL. Candidates for the degree are required to present for admission the equivalent of three full years of work in the College of Letters and Science. A limited number of students who have reached their majority and who have the general entrance requirements stated above and two years of college work may be admitted as special students.

LIBRARY SCHOOL. The numerous special requirements are given in detail under the heading Library School, which see.

MEDICAL SCHOOL. Two full years of work in the College of Letters and Science are required for admission, including the special subjects as set forth in detail under the heading Medical School, which see.

MUSIC SCHOOL. The special requirements are set forth under the heading School of Music, which see. It is advisable that such students should include in their high-school work music courses listed in Group B above, as outlined under "Scope of Preparatory Work", page 46.

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 special admission requirements of the various colleges and courses and to the recommendations regarding preparation in foreign languages. Students expecting to go to the University and 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: at least 2 units each of mathematics, science, and history; 2 to 4 units of foreign language; and at least 3 units of English, or 4 if less than 3 units of foreign language are offered. **Extra units of history, science, or mathematics should replace foreign language if none is offered.**

FOREIGN LANGUAGE

While foreign language is not definitely required for admission to any course, failure to present it will result in greatly curtailing the student's free elections in completing the requirements for graduation from certain courses. Those who expect to take any of the following named courses should preferably present units of foreign language as indicated:

COLLEGE OF LETTERS AND SCIENCE

General Course (B.A. degree)—2–6 units, any languages listed
Course in Commerce—2–6 units, any languages listed
Course in Journalism—2–6 units, any languages listed
Course in Music—2–6 units, any languages listed
Course in Chemistry—2 units of French; 2–4 units of German
Chemistry–Commerce Course—2–4 units of German; 2 units of French or Spanish
Premedical Courses—2 units of Latin
Four-year Pharmacy Course—2 units of French; 2–4 units of German
Five-year Nursing Course—2–6 units, any languages listed
Course in Physical Education for Men—3 units in one language or 2 units in each of two
Course in Physical Education for Women—4 units, any languages listed
Course in Humanities—2–4 units of Latin and 2–4 units of Greek, French, or German

COLLEGE OF AGRICULTURE

Course in Home Economics—2–4 units in one language or 5 units in two.

FRESHMAN PERIOD

All freshmen are required to be present at the University on the Wednesday preceding the beginning of instruction in September 1930 and to remain throughout the week. This period (September 17–23) will be devoted to registration, conferences with advisers, physical examinations, aptitude tests, special educational examinations, assignments to classes, lectures and discussions on subjects of importance to new students, and a general introduction to university life.

Because attendance throughout the entire period is required, it is essential that all details connected with admission be attended to as early as possible. Students who graduate from high schools or academies in June should inform their principals sometime in May or early June of their intention to attend the University in the fall, so that the necessary certificates may be prepared and other important data furnished to university authorities. No guaranty of admission can be made to prospective students whose credentials are not in the hands of the Registrar by August first. So far as possible, candidates who will need to take entrance examinations should avail themselves of the June examination period; this means that candidates with dubious records and those from non-accredited schools outside the state would do well to correspond with the Registrar before June first.

Rooms for the semester should be secured in advance of Freshman Period so that there will be no confusion, uncertainty, or waste of time during the days when attention should be centered on "getting started."

METHODS OF ADMISSION

There are four general methods by which admission to undergraduate standing in the University may be obtained:

1. By presenting a certificate of graduation from an accredited high school.
2. By submitting evidence of studies successfully pursued in another institution of higher learning.
3. By passing entrance examinations.
4. By qualifying as an adult special student.

Prospective freshmen and adult special students may learn at any time of year by corresponding with the University Registrar whether or not they have the necessary qualifications for admission and upon what basis they may be admitted. Prospective students who have had some college work should correspond with the Advanced Standing Committee of the college or school to which the student desires to be admitted. Students may enter the University at the opening of either semester or of the summer session, but all credentials should be filed sufficiently in advance of the date chosen to permit the proper authorities to pass upon them and to issue the necessary certificates of admission. Candidates for admission in September are responsible for having their credentials filed by the first of August. The credentials must in every case include a complete record of all previous secondary school and advanced work.

ADMISSION UPON CERTIFICATE

WISCONSIN SCHOOLS

Graduates of accredited high schools may enter the University, without examination, upon presentation of a certificate showing the satisfactory completion of the fifteen required units and bearing the recommendation of the principal. Only the form prepared by the University is acceptable, a supply of which may be obtained from the Registrar by the principal. The completed certificates should be returned to the University before August 1.

Principals of accredited schools are requested to note the statement on page 41 regarding the examination of freshmen in English. A similar examination in algebra is given to freshmen in the College of Engineering.

Graduates of four-year non-accredited schools in Wisconsin who have satisfied the full requirements for admission to the University may be admitted on probation, without examination, upon recommendation of the principal.

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 of the 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 can be placed upon the list whose course of study is not fully equal to the four-year course for high schools recommended by the State Superintendent.

Any high school or academy with a complete four-year course which 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 is published near the end of the academic year; it is sent to all high schools in the state. Copies may be obtained from the Chairman of the Committee on High-School Relations.

SCHOOLS OUTSIDE WISCONSIN

1. Graduates of secondary schools outside Wisconsin, included in the current list of accredited schools of the North Central Association, may be admitted when recommended and certified by the principal as indicated above, provided the minimum admission requirements of the University be fulfilled. The grades must average *fair* or above, and the record of the last two years in the secondary school will be given special and critical consideration.

2. Graduates of other secondary schools outside Wisconsin may 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 as to both number of units and character of work. In such cases the character of the work submitted is 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.

DEFICIENCIES IN ENTRANCE REQUIREMENTS

Graduates of secondary schools who fail to secure the recommendation of their principals because of low grades will be required to take entrance examinations in those Group A subjects in which they are deficient. A deficient grade is one lower than 77 when 70 is the passing grade of the school, or below 81 on the basis of 75 as passing.

Graduates of schools which have established a "recommending grade" will be required to take entrance examinations in those subjects in which they failed to receive this recommending grade.

Graduates who do not have the required fifteen units will take entrance examinations in those subjects in which they lack credit.

Applicants for admission who are required to take entrance examinations as indicated above must also take a college aptitude test which will be used in conjunction with the entrance examinations for determining admission.

Entrance examinations are given three times a year, in September, February, and June, as specified in the calendar; no special examinations are given. Those who are likely to be required to pass entrance examinations in order to gain admission will do well to correspond with the Registrar as soon as possible, so that they may be informed early of their deficiencies and thus have ample time to prepare themselves for examination. There is likely to be less severe disappointment if candidates take the examinations in February or June since, if rejected, they still have opportunity to seek admission to some other institution.

Graduates of accredited schools whose academic subjects average less than 77 with 70 as the passing grade of the school, or less than 81 with 75 as passing, are urged not to apply for admission to the University because their chances for success in college are slight. If they are admitted it will be only on probation.

ADVANCED CREDIT

Advanced credit for high-school work may be granted to students with satisfactory average standing who present more than fifteen units acceptable for admission, provided: (a) the subjects in which advanced standing is sought are the general subjects accepted for admission to the University; (b) the work is as advanced as work given in the freshman year; (c) the course for which credit is desired be approved by the chairman of the department; and (d) 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

Applicants for admission who have had any work whatsoever in another institution of higher learning, regardless of whether or not they wish to receive credit for it, must submit complete credentials of both their high-school and "college" work, as defined above, to the proper authorities of the specific college which they desire to enter, and not to the University Registrar. For the College of Letters and Science and its subordinate schools, as well as the Law and Medical Schools, records should go to the Chairman of the Advanced Standing Committee; for the College of Engineering, to the Dean; for the College of Agriculture, to the Assistant Dean. All such transcripts should be sent at least six weeks preceding the opening of the session the student desires to enter.

Not more than one-fourth of the number of credits required for a four-year course will be given for a single year's work in another institution. This maximum will be given only when the student makes an average of C or better during his first or second semester at Wisconsin. At least the senior year's work (30 credits and 30 grade-points) must be earned in residence at Wisconsin, and students can therefore expect at best not more than three years of advanced standing on transfer.

WISCONSIN TEACHERS' COLLEGES

Graduates of the two-year departmental courses in the state teachers' colleges who have actually completed two years' work thereat, who were previously graduated from four-year high-school courses, and who are en-

titled to unlimited state certificates, will, upon the presentation of their high-school and teachers' college transcripts, be admitted to the junior year in the Normal Course, provided they are able to finish the work for the degree by August, 1932. Those who will not have secured this degree by that time will be transferred to and must meet the requirements of one of the two general courses (B.A. or Ph.B.).

Records of other types of work of Wisconsin teachers' colleges are evaluated on the same basis as those from colleges and universities.

NORMAL SCHOOLS AND TEACHERS' COLLEGES OUTSIDE WISCONSIN

Graduates and students of normal schools or teachers' colleges 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 such institution by the state university of the state within which it is situated. In addition to the usual transcript and the certificate of high-school work completed, such graduate or student may be asked to 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.

COLLEGES AND UNIVERSITIES

Students from accredited colleges and universities who have pursued college courses equivalent to those of the University of Wisconsin with an average standing of at least C on an A-B-C-D passing-grade basis and who have been granted honorable dismissal from their former institution, may be admitted to the University. In the general course of the College of Letters and Science, freshmen are limited in their elections to English composition, foreign language, history, mathematics, natural science, and drawing. Students who wish to receive full credit for their freshman year at other colleges should, therefore, make up their programs from these subjects. Studies not open to freshmen at Wisconsin, such as education, political science, philosophy, public speaking, and sociology, will not be credited if taken in the freshman year at another institution. Former students of other institutions can not be received as freshmen on the basis of their preparatory school records.

ADMISSION TO THE SUMMER SESSION

Applicants for admission to the Summer Session who wish to work for a degree at Wisconsin must file regular transcripts as specified in the preceding paragraph; this requirement also applies to all persons seeking admission to the Law School or the Graduate School, regardless of their intention of securing a degree.

All other summer session applicants who have not previously been matriculated at Wisconsin are required to furnish documentary evidence of good standing. For a teacher this will consist of a statement of his or her status in the school where employed, signed by a responsible official of such school; for a student at another institution, an official statement of good standing thereat; for others, appropriate statements of attainments, occupation, and purpose. These statements are to be filed in advance so that necessary permits to register can be issued.

ADMISSION UPON EXAMINATION

Applicants for admission who have not been graduated from a secondary school may be admitted to the University upon passing entrance examinations in the required number and kinds of units as specified above. These examinations are given three times a year, in February, June, and September, on the dates indicated in the calendar; no special examinations of any sort are given. All candidates are expected to correspond with the Registrar before presenting themselves for examination, and all must be present at 9 o'clock on the first examination day. Candidates may divide the subjects and take the examinations in two trials, but failure to pass all the subjects in two trials will necessitate complete re-examination. The Registrar will furnish, upon request, information as to the character of the examinations.

In general, it is preferable for prospective entrants to submit to examination in February or June rather than in September, since failure at the latter date may result in a sudden change of plans at the very outset of the academic year.

These admission examinations are also open to high-school graduates who may be deficient in certain subjects and who therefore are unable to take full advantage of the certificate plan of admission.

ADMISSION ON THE ADULT SPECIAL BASIS

Citizens of Wisconsin, twenty-one years of age or over, who do not possess all of the requirements for admission and who 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 subjects 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 students who 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 of 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 third year, students admitted on the adult basis must have fully satisfied all entrance requirements. When all entrance requirements have thus been absolved, such students may continue work in the University, will receive regular classification, and may be accepted as candidates for a degree.

SCOPE OF PREPARATORY WORK

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

ENGLISH

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 and composition, and half to the detailed study of a number of the English classics. At least three units in English are recommended, the third unit to consist of additional work in composition, and either (1) an outline history of English or American literature with the reading and study of selections of each period, or (2) the intensive study of a few typical examples of the novel, the drama, the lyric, and the essay. Four units of English should include composition and both (1) and (2) given above, in addition to the two required units.

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 mark shows serious weakness in spelling, punctuation, grammar, sentence construction, or division into paragraphs. Facility of expression will not be sufficient to offset marked deficiencies in these reports. A more detailed statement of the requirements for admission to freshman English is given in University Bulletin, High-School Series, No. 25. Students deficient in English composition must make up such deficiency in one year or be dropped from the University. The University provides special instruction for such students.

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

UNITS IN ADDITION TO THE TWO REQUIRED OF ALL

HISTORY OF ENGLISH AND AMERICAN LITERATURE. 1 unit. In addition to the required units in English, one unit in the history of English literature or in the history of English and American literature may be presented. The greater part of the time should be devoted to the reading of selections from representative authors of each period. In the study of the history of literature, which should occupy no more than one-quarter of the

time, emphasis should be placed on general movements and tendencies as shown in the selections studied. In the history of English literature characteristic selections from most of the following authors should be read: Chaucer, Shakespeare, Bacon, Milton, Pope, Addison, Goldsmith, Gray, Burns, Scott, Wordsworth, Coleridge, Keats, Shelley, Tennyson, Browning, Lamb, George Eliot, Dickens, and Thackeray. In American literature, selections from the following: Longfellow, Whittier, Bryant, Holmes, Irving, Hawthorne, Cooper, Poe, Lowell, and Emerson. A study of the principles of composition and practice in theme-writing must be included in this unit.

ADVANCED STUDY OF CLASSICS. 1 unit. In addition to the two units of required work, which include the reading and study of English Classics, students may offer one unit representing advanced work in the study of literature. This should consist of an intensive study of typical examples of the novel, the drama, the lyric, and the oration or the essay. At least one work from each of the following four groups should be included: I. (a) Thackeray's *Henry Esmond;* (b) Hawthorne's *The House of Seven Gables;* (c) Dickens' *A Tale of Two Cities;* (d) George Eliot's *Silas Marner.* II. Shakespeare's (a) *Macbeth,* (b) *Hamlet,* (c) *King Lear.* III. Palgrave's *Golden Treasury* (First Series), (a) Books ii and iii, or (b) Book iv; (c) Milton's *Lycidas, L'Allegro,* and *Il Penseroso.* IV. (a) Burke's *Speech on Conciliation;* (b) Webster's *First Bunker Hill Oration,* and Washington's *Farewell Address;* (c) Macauley's *Life of Johnson, Essays 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, 1½, or 2 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.

A third half year of algebra is strongly recommended for all students and is required of engineering students. The work should cover: the theory of quadratic equations; elementary theory of exponents and radicals; systems of non-linear equations including linear quadratic systems, quadratic systems containing no first degree terms; graphic representations of quadratic equations in two variables; examples involving binomial theorem with positive integral exponents; arithmetical and geometrical progressions; logarithms; ratio, proportion, and variation.

If a fourth half year is given it should cover: proof of binomial theorem for positive integral exponents, with examples involving negative and fractional exponents; polynomials and equations of any degree in one variable, including factor theorem, remainder theorem, determination of rational roots, graphic and algebraic approximate determination of real irrational roots, roots common to two equations, relation between roots and coefficients of the equation; permutations and combinations; determinants.

GEOMETRY. 1 unit of plane geometry. An additional half year of solid geometry is strongly recommended for students who expect to enter the College of Engineering.

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

Additional credit. ½ or 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 of 1 unit each: ancient, ancient and medieval, European to approximately the end of the 17th Century, medieval and modern, modern European, English, United States. One, two, three, or four blocks may be presented. A real equivalent may be presented in place of a recommended block, but a one-year 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

BIOLOGY. 1 unit. This course should include plant biology, animal biology, and human biology or physiology. The course should include demonstrations by the teacher and individual laboratory work on the part of pupils. Biology should be upon the same basis as physics and chemistry.

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. If it is impracticable to give a full year's work to the subject, botany may be combined with physical geography, physiology, or 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 it is impracticable 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 must be illustrated by charts and models, and supplemented by anatomical demonstrations and chemical experiments.

ZOOLOGY. 1 unit. Laboratory work (at least two-thirds of the course), with careful description and drawings. Class exercises may be based on any standard textbook.

FOREIGN LANGUAGE

GREEK. 1, 2, or 3 units. First unit, grammar and elementary book; second unit, Xenophon's *Anabasis*, four books; Greek composition; third unit, Homer's *Illiad*, six books, or an equivalent amount of the *Odyssey;* Greek composition.

LATIN. 1, 2, 3, or 4 units. First unit, grammar and elementary book; second unit, *Caesar*, books I–IV; third or fourth units, *Cicero*, six orations (selections from the letters may be substituted for two orations); or *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 purpose continuing the study of ancient or modern languages or of history. 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. First unit. (a) Correct pronunciation; (b) grammar equivalent to Manfred's *Ein praktischer Anfang* (23 lessons), Spanhoofd's *Elementarbuch* (24 lessons), or Bacon's *New German Grammar* (50 lessons); (c) about 50 pages of easy prose; (d) ability to translate from German into English and vice versa, and to answer simple German questions in German.

Second unit. (a) Fluent pronunciation; (b) elementary grammar completed; (c) about 75 of the more usual strong verbs; (d) 200 pages of reading, chiefly modern prose, but including simple poems and possibly a short play.

Third unit. (a) Further grammar and syntax study; (b) at least 200 pages of prose and verse, partly as outside reading reported on for content only; (c) constant oral and written practice.

Fourth unit. (a) At least 400 pages of standard literature in prose and verse, partly as outside reading as above; (b) increasing attention to literary appreciation and biographical and historical background; (c) ability to understand ordinary modern German texts, to write simple topics relating to them, and to converse on them in German; (d) ability to follow recitations conducted in German.

FRENCH. First unit. (a) The elements of grammar as found in the first part of usual French grammars; (b) about 100 pages of simple French, with emphasis on correct pronunciation.

Second unit. (a) A review of the grammar covering all the most common irregular verbs; (b) 200 pages of simple French.

Third unit. (a) At least 400 pages of French chosen from nineteenth-century classics; (b) considerable work in oral and written composition.

Fourth unit. One year of work, including: (a) at least 500 pages of classic and modern French literature; (b) 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*, copies of which may be obtained on application to the Department of French and Italian.

ITALIAN. First unit. (a) The elements of grammar; (b) 200 pages of easy Italian, with emphasis on correct prounciation. Second unit. (a) Correct pronunciation; (b) ability to translate freely simple Italian texts; (c) an accurate knowledge of the grammatical principles of the language, and of its regular verbs; (d) about 500 pages of text.

SPANISH. First unit. (a) The elements of grammar; (b) 100 pages of easy Spanish, emphasis on correct pronunciation. The work in grammar should be approximately that found in any standard Spanish grammar. The student should be taught the Castillian pronunciation.

Second unit. (a) Correct pronunciation; (b) ability to translate freely simple Spanish texts; (c) an accurate knowledge of the grammatical principles of the language, and of its regular verbs; (d) about 300 pages of text.

Third unit. (a) At least 400 pages of Spanish chosen from nineteenth-century authors; (b) considerable work in oral and written composition.

Fourth unit. One year of work including: (a) at least 400 pages of modern Spanish literature; (b) ability to write 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 entitled *A Four-Year Course in Spanish*, issued by the Department of Spanish and Portuguese.

NORSE. First unit. (a) Grammar and exercises equivalent to Holvik's *Beginner's Book in Norse*, or Michelot's *First Year Norse;* (b) 100 pages of text of the grade of Bjornson's *En Glad Gut.* Second unit. (a) A review of the grammar; (b) 200 pages of prose and verse, equivalent in grade to Holvik's *Second Book in Norse* and Ibsen's *Terje Viken.*

HEBREW. First unit. (a) Correct pronunciation and principles of Hebrew phonetics; (b) 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); (c) reading of the first four chapters of Genesis or an equivalent amount of simple historical prose; (d) translation of simple English sentences into Hebrew.

Second unit. (a) Completion of the *Elementary Hebrew Grammar* covering the irregular verbs and nouns with suffixes (completion of Harper's *Method and Manual;* (b) the reading of about 50 pages of simple Hebrew prose; (c) 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.

ART AND VOCATIONAL SUBJECTS

Owing to the present state of development of fine and applied arts and the vocational subjects in the high-school curriculum, requirements in these subjects are not defined.

AGRICULTURE. Plant production, agricultural chemistry, soils, 1 or 2; animal husbandry, 1; rural economics, farm management, and farm mechanics, 1½.

COMMERCIAL WORK. Bookkeeping, ½ to 2; shorthand, 2; typewriting, 1 if combined with shorthand, otherwise only ½; commercial arithmetic, ½; commercial law, ½; commercial geography, ½; business organization, salesmanship, and office practice, each ½ unit if taken during the last two years.

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 application in line, form, and color, 1 or 2; crafts with correlated design, 1 or 1½.

DOMESTIC ART. Textile 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

A maximum of four units of entrance credit in music may be allowed, when taken under the conditions stipulated by the University School of Music.

HISTORY AND APPRECIATION OF MUSIC. 1 unit; five periods per week for one year. A non-technical presentation of those fundamentals of form and design essential for intelligent listening to music, together with a brief historical account of the development of music which will aid in giving perspective to musical understanding. The course should consist of assigned reading, prepared topics, analysis of typical examples, class projects, musical participation, and much *discriminative* listening. To conduct this course successfully, there must be available adequate reference material. Also, for purposes of musical illustration, there must be an excellent phonograph and, if possible, a player-piano, with an adequate supply of acceptable records, rolls, and scores.

THEORY AND HARMONY. 2 units only; five periods per week for two years. The course aims in the first year to provide the student with:

a) Theoretical knowledge of music symbols, terminology, intervals, key signatures, rhythms, and elementary chord structure, and a thorough knowledge of major and minor scales.
b) Ear-training, sight-singing, and dictation (laboratory work).
c) A knowledge of tone relationships with respect to rhythm, melody, harmony, and design.

In the second year the course should begin with simple triads and continue through cadences and sequences up to the dominant seventh chord. The purpose is:

a) To provide a stimulus for the creative impulses of the student, rather than to serve merely as musical grammar.
b) To develop a capacity for harmonic analysis essential for sound musicianship.

The work should consist of both paper and key-board application of all chords and progressions studied.

CHORAL MUSIC. ½ unit per year; five laboratory periods per week. This course contemplates choral study in small groups where it will be possible to pay attention to voice training and to the development of individual skill in singing. Sight-reading ability is prerequisite. The material studied must be selected from the standard choral literature and the course must be planned in such a manner that a systematic development of both skill and appreciation will result. In addition to the finished performance of typical examples of choral literature, opportunity should be provided for becoming acquainted with a wide range of the best choral literature.

ORCHESTRA. ½ unit per year; five laboratory periods per week. The basis for recognition of credit by the University is:

a) The instrumention shall be such that constructive orchestral development is possible.
b) Instructors must have had sufficient practical training to satisfactorily carry on such work.

The purpose of this course is to provide players of orchestral instruments an opportunity for the development of skill and for the enjoyment of this form of ensemble playing. It is essential, therefore, that there be an instrumentation that is sufficiently complete for the characteristic qualities of the various choirs to be realized. It is only upon this basis that an adequate performance of the literature of the symphony orchestra may be approximated.

The following minimum instrumentation is essential: four first violins, four second violins, two violas, one cello, one bass, one flute, two clarinets, one oboe, one bassoon, two trumpets (or cornets), one trombone (valve or slide), two French horns, tympani, and percussion.

In augmenting this group, the strings may first be greatly increased, with attention, however, to proportional increases in violas, cellos, and basses; then second bassoon, second oboe, second and third trombones, third and fourth French horns, and second flute may be added.

The music played by such a group may be simple but must be musically worth while. Perfect intonation, good tone, accuracy of reading, and expressive performance are the ends sought.

BAND. ½ unit per year; five laboratory periods per week. In order that credit for band may be accepted by the University, the following minimum instrumentation is necessary: eight B-flat clarinets, one flute and piccolo, one oboe, one bassoon, four cornets or trumpets, one baritone, two trombones, two tubas (preferably E-flat and BB-flat), three French horns in F or E-flat, and two percussion. Instruments may be added in the following order: two B-flat clarinets, one additional French horn, one trombone, one E-flat clarinet, one alto clarinet, one bass clarinet, two trombones, and four saxophones (B-flat, E-flat, tenor, and baritone). With such an in-

strumentation, music of a symphonic character is possible. Tone intonation, accuracy, and skill in reading, and expressive performance are the ends to be obtained. It should be a fundamental concept that the band is organized essentially as a musical organization rather than for utility purposes.

APPLIED MUSIC. ½ unit per year, with a maximum of 2 units; one thirty-minute private lesson per week, with one hour of practice daily.

Instruction in applied music taken for credit with teachers outside the regular school system should include: correct position with its relation to the natural production of good tone; scales and arpeggios played in rhythms in major and minor keys; sight reading; in the case of piano, pedaling; in the case of stringed instruments, bowing; the various types of touch; music chosen from the works of composers generally recognized as the best, and representing the various forms, such as march, waltz, gavotte, sonata; in the case of piano and organ, the complete cadence in all keys; correct interpretation as demanded by the pieces of various types studied.

Written application must be made in duplicate by the pupil, with the countersignature of the parent, to the principal of the high school not later than the second week of the school year, requesting permission to take applied music for a specific amount of credit with a private teacher properly accredited by the State Department of Education. When approved by the principal, one copy of the application should be signed and retained for the school office, and the other copy signed and returned to the student, who will present the approved application to the accredited private instructor when registering with such instructor for work with credit. The teacher shall submit to the principal, on a form provided by the school, a monthly report of the work done by the pupil. At the close of each semester, each pupil taking applied music for entrance credit to the University of Wisconsin shall be examined by a person selected by the principal from a list prepared by the University School of Music. The nature and the scope of each examination shall be determined by the University School of Music.

PART IV—THE COLLEGES

COLLEGE OF LETTERS AND SCIENCE

G. C. SELLERY, DEAN

I. COURSES OF STUDY OFFERED

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, in which other required studies take the place of foreign language in whole or in part. The requirements in these courses are stated beginning with page 56.

The following is a complete list of the courses offered, as described on the pages indicated:

LEADING TO THE DEGREE OF BACHELOR OF ARTS

General Course, page 58
Course in Commerce, page 76 (School of Commerce)
Course in Humanities, page 68
Course in Journalism, page 103 (School of Journalism)

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

Course in Applied Arts, page 94 (School of Education)
Course in Chemistry, page 63
Chemistry–Commerce Course, page 67
Course in Industrial Education, page 93 (School of Education)
Course in Nursing (see School of Nursing Bulletin)
Course in Pharmacy, page 70
Course in Physical Education and Athletic Coaching for Men, page 97 (School of Education)
Course in Physical Education for Women, page 98 (School of Education)
Premedical Curricula, page 73

LEADING TO THE DEGREE OF BACHELOR OF MUSIC

Course in Music, page 118 (School of Music)

LEADING TO THE DEGREE OF BACHELOR OF PHILOSOPHY

General Course, page 61
Normal Course, page 62

II. GENERAL REGULATIONS

1. ADVISERS

Upon being admitted to the University, each student is assigned to a member of the faculty who acts as his adviser during the freshman and sophomore years. The duties of the adviser are to assist the student in selecting his subjects so as to secure a well-rounded education, as well as to aid him in interpreting the requirements and to oblige him to meet them in their proper sequence. The responsibility for the selection of courses rests, in the final analysis, upon the student and it is not the province of the adviser to refuse approval of a course which the student is entitled to elect. Similarly, it is the primary duty of the student to meet the requirements of his course in their proper order, so that he may not, in his senior year, find himself unable to graduate. 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 located becomes his adviser. At the opening of each semester the student is required to consult his adviser concerning his choice of studies, and the adviser must approve the student's elections before he is permitted to enter classes.

2. CREDITS AND POINTS

CREDITS. The *credit* is the unit for computing the amount of work required for graduation. It is assigned to one hour of class or lecture work or to two or three hours of laboratory work per week for one semester, together with the necessary preparation. Students in the general courses are expected to secure an average of 15 credits per semester in recitations, lectures, and laboratory work, making 30 credits per year, and 120 for the four-year course. 120 grade-points also are required for graduation, as explained in the following section.

Each student in one of the general courses is required to take class and laboratory work in the amount of 14 to 16 credits per semester. A student who desires to elect fewer than 14 credits must secure permission in advance from the Dean. A student who has received a grade of B in *each* subject of the preceding semester may take not to exceed 18 credits. No student will be permitted to count toward graduation more than 18 credits in one semester.

Candidates for the bachelor's degree who desire to graduate in three years may usually do so by obtaining 17 or 18 credits per semester after the first semester of the freshman year, and by attending three summer sessions. Students will need to carefully select their work for the summer with reference to the required and elective subjects of the course in which they expect to graduate. A student who expects to shorten his course in this way will necessarily consult with his adviser very carefully before selecting his subjects.

GRADE-POINT SYSTEM. In order to receive a degree the student must gain not only the number of credits required in the course which he is pursuing, but his studies must reach a certain average of excellence. This standard is fixed by the grade-point system, which requires for graduation from any course as many points as credits. The following table shows the university scale of grading, together with the number of points per credit for each grade:

GRADE		PERCENTAGE	POINTS PER CREDIT
A	(Excellent)	93–100	3
B	(Good)	85–92	2
C	(Fair)	77–84	1
D	(Poor)	70–76	0
E	(Condition)	60–69	0
F	(Failure)	Below 60	0

The maximum number of points that can be secured by a student graduating in a course which requires, for example, 120 credits, is 360; the minimum, 120. It is evident that an average grade of C is necessary for graduation. Students who, by reason of poor grades, fall behind in the required number of points are ineligible for graduation. Thus a student may readily determine his relative progress.

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. 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. ATTENDANCE

Students are required to be present at the opening of the semester and to remain until the work of the semester is finished. It is expected that every student will be present at all of the classes at which he is due. If at any time a student is absent, he must satisfy his instructors that such absence is for good and sufficient cause. Any student who is absent from any class immediately preceding or following Thanksgiving day or the Christmas or spring recess without an excuse acceptable to the Junior Dean will be excluded from the semester examinations in those subjects from which he was absent and will be required to write special examinations during the following semester. This rule also applies to absences at the opening of the second semester.

4. PHYSICAL ACTIVITY REQUIREMENT

Freshman and sophomore women are required to take three hours of physical training a week for a total of four semesters. Similarly, every male freshman and sophomore is required to take three hours of work a week in either physical education, military science, or band instruction for a total of four semesters. Normal-school graduates, students who enter with junior standing, and students who are physically disabled, as certified by the Department of Student Health, are exempt from this requirement. Freshmen and sophomores who desire exemption must make application to the proper authorities at the opening of the academic year; there are no automatic exemptions.

Students entering from schools where they have had the basic ROTC course may take the advanced course in the freshman year in fulfillment of the general option in military science, but without academic credit; or

they may elect physical education. In the sophomore year the advanced course may be elected for academic credit as well as in fulfillment of the requirement. If one of the advanced courses in military science is elected, it must appear on the student's election card in the same way as any other regular subject, and sophomores, juniors, and seniors must include it in the maximum number of credits permitted.

5. TRANSFERS

Students transferring from special courses, e. g., chemistry or premedical, or from another college of the University, to one of the general courses, will receive no more than 15 credits a semester toward graduation for work already done, except in semesters in which all standings are B or above, when the maximum is 18 credits. 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, section 8 below. Students transferring are in general required to remove an incomplete, a condition, or a failure incurred in any subject in their former college, provided they can credit the subject in question in this college. If not, the subject will be declared equivalent to a "free elective" by the Executive Committee, on application, after the student has done a semester's satisfactory work in this college. This regulation is applied similarly to transfers within this college. Doubtful cases should be referred promptly to the Executive Committee.

6. RESIDENCE REQUIREMENTS

The minimum residence requirement is 30 credits and 30 grade-points, to be earned in at least two semesters at Madison (or six summer sessions, in no one of which may less than four credits be carried). All the requirements of the major subject must be met, including at least 15 credits and 15 grade-points in advanced work at the University.

All candidates for degrees must expect to take their senior year in residence. They are not permitted to take the advanced work of the major study or the thesis in another institution or by correspondence, since these studies normally culminate in the last year of the undergraduate course. In special cases the Executive Committee of the College, on application to the Dean, may permit a senior who has finished all the specific requirements and the work of his major and thesis, to take not to exceed 6 credits by correspondence to complete the requirements for his degree.

Students who wish to secure a second baccalaureate degree in this college are required to complete the additional studies regularly prescribed for that degree, including a special thesis and at least one year's additional residence.

7. DEFICIENCIES

FAILURES. In general, a student who has failed in any subject must remove the failure by repeating that subject in class and securing a passing grade, as soon as the subject is again offered. A failure cannot be removed by correspondence study or by repeating the subject in another institution. Students in this college, however, are required to remove failures only in required subjects, i. e., those chosen to satisfy or those capable of satisfying specific requirements for a given degree, for the teacher's certificate, for any special curriculum or course (e. g., Chemistry Course), or for a major, including also any courses which carry credit toward the major, over and above the minimum requirement thereof. So far as this regulation is concerned, a subject chosen to satisfy any re-

quirement thereby becomes a requirement, and students may not meet the requirement in any other way, but must remove failures in such subjects unless relieved by the Executive Committee as provided in section 5 above. Seniors, including those registered for graduate credit, who incur failures during their last semester of residence must remove such failures in the regular way; this rule applies also to incompletes and conditions incurred during the final semester.

ELIGIBILITY AS AFFECTED BY FAILURES. A student who has a failure on his record shall be eligible to participate in extra-curricular activities: (a) when he shall have repeated the subject with a satisfactory grade, or (b) when he shall have satisfactorily completed, in a subsequent semester or summer session, another subject approved as a substitute by the Executive Committee, or (c) when, in case the failure is in a subject certified to the Registrar by the Dean to be a free elective, he shall have completed a subsequent semester of satisfactory work on a full program. However, to regain eligibility for intercollegiate athletics under (b) or (c) a full year of satisfactory work must be completed, as provided by the Inter-Collegiate Conference rules.

CONDITIONS. The grade of condition is given to a student who has carried a subject throughout a semester with a passing average, but who, failing in his final examination, reduces his semester average to some numerical standing between 60 and 69. A condition must be made good by passing a special examination during the student's next succeeding semester of residence at the University or it becomes a failure, which must be removed as specified above. If a student repeats in class a subject in which he has incurred a condition, he is excluded from taking the condition examination and must complete the subject in the regular way. Former students not in residence are permitted to enter condition examinations only in case they left the University in good standing. No grade-points are awarded for conditions made good.

The usual way of removing a condition is by a successful final examination taken on the day fixed by the rules. If, however, in a course involving both laboratory and classroom work, the condition has been incurred on account of unsatisfactory laboratory or report work, it may be removed by absolving such substantial requirements as the instructor in charge of the course may prescribe. The removal of this type of condition will take effect on the official date for the removal of conditions. When a condition in such a course becomes a failure, the student may pass the course by repeating that portion of it (laboratory or classroom work) in which the condition was originally incurred, provided the instructor in charge authorizes this arrangement in advance.

INCOMPLETES. Incompletes are given to students who have carried a subject successfully until near the end of the semester and have then been compelled to quit work on account of illness or other cause beyond their control. Incompletes are not given to students who stay away from examinations unless they prove to the instructor that they were prevented from attending as indicated above. In default of such proof they will be failed or conditioned; even with such proof, if their term work has convinced the instructor that they cannot pass, they will usually be failed or conditioned. A subject marked incomplete must be completed during the student's next succeeding semester of residence at the University or it will lapse into a failure, unless the time limit has been extended by the Executive Committee. A student may not graduate with an incomplete incurred during the second semester of his senior year.

8. ELECTION OF STUDIES IN THE COLLEGES OF AGRICULTURE AND ENGINEERING

Candidates for the degrees of B.A. and Ph.B. (General Course) are allowed to elect in the College of Engineering and the College of Agriculture studies in an amount not exceeding 20 credits. The conditions under which these studies may be taken are as follows:

(a) Before he shall be eligible to elect studies in these colleges the candidate must have completed the work of the freshman and sophomore years of the College of Letters and Science, including those studies which normally come in the freshman and sophomore years at Wisconsin. This means, in the case of a candidate for the B.A. degree, that the student must have 58 credits and 58 grade-points, and must have completed his two years of English, two of the three requirements in history, mathematics, and science, and four semesters of foreign language *in college* unless the B.A. requirement has been completed earlier, before he may enjoy the privileges of this rule. (See section 18 below.) Candidates for the degree of Ph.B. (General Course) must have been equally industrious in completing the requirements of their course; in particular, they must have completed their English and 20 credits in science and mathematics (requirement *b*), together with one of the options under requirement *c*. (See section 21 below.)

(b) Studies in these colleges may be elected only by students who are to spend at least two full years in residence at the University before receiving the bachelor's degree. Hence they may not be elected by students from other institutions who enter the University with more than half the credits required for graduation nor be credited by students who through correspondence study reduce the amount of attendance at the University below two years.

(c) Certain courses, intended primarily for students of other colleges but offered by departments of the College of Letters and Science (e. g. Math. 51, Physics 51, etc.), are open in the same way as courses intended primarily for students of the College of Letters and Science.

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

(e) Elections must be approved by the Dean of the College of Letters and Science. Such approval will be endorsed on the election card in each case in advance, and on the student's permanent record in the Registrar's office. Courses which are parallel to Letters and Science courses will be approved only for special cause. Courses which involve a large manual or routine technical element will ordinarily be approved only as extras. Special consideration, however, will be given to programs directed to a definite educational end.

9. ELECTION OF STUDIES IN THE LAW SCHOOL

(a) Candidates for the degree of B.A. and Ph.B. (General Course) who satisfy the conditions of section 8, paragraphs (a) and (b) above, may count courses taken in the Law School of this University as free electives toward either of these degrees in an amount not exceeding 26 credits; provided that the total of all electives from outside this college which may be credited by such students shall not exceed 20 credits unless all are restricted to the Law School.

(b) Candidates for the degree of B.A. and Ph.B. (General Course) who were admitted to the Law School of this University as regular or unclassified students before they had satisfied the conditions of section 8, subsections (a) and (b) above, will be allowed to count 15 law credits or less

as free electives toward either of these degrees; provided that the total of all electives from outside this college which may be credited by such students shall not exceed 20 credits; and provided further that they must secure at least 40 credits, acceptable toward such degrees, in residence in this college.

10. ADMISSION TO THE LAW SCHOOL; PRE-LEGAL STUDIES

Students are eligible for transfer to the Law School who have (a) completed three academic years of satisfactory work on full programs of study (see last paragraph of section 2 above, entitled Credits and Points) in any of the B.A. courses or in the Ph.B. General Course, and have (b) satisfied the basic requirements of the first two years in any of those courses (e. g., English, foreign language, and the history–mathematics–science requirement in the B.A. General Course), and have (c) successfully carried their third year of Letters and Science studies. In this third year students should complete all unfulfilled general requirements and should also have the work of their major so well in hand that the thesis requirement may be satisfied concurrently with the first year work in Law. For requirements in the courses mentioned above, see pages 58–61.

Any major in Letters and Science, energetically carried with the general degree requirements, will furnish adequate preparation for the study of law. But the Law School Faculty believes that, as a rule, the student intending to study law should major in the field of social studies (economics, history, philosophy, political science, or sociology), and that, in any event, when he begins the study of law he should have acquired some understanding of the economic and political life of the United States and of Anglo-American constitutional history, as well as some acquaintance with philosophy and social psychology. They recommend especially the following courses: Economics 1; History 4, 5, 117, 141; Philosophy 11; Political Science 1 or 101; Sociology 46 or 139. They recommend also, for their bearing on certain phases of the law: Economics 5, 19, 123, 124, 133, 137, 142; Philosophy 21, 41, 43, 136, 146; Political Science 13, 123, 125, 139, 165, 245; Sociology 161.

Students may, by availing themselves of either this section or section 9, secure both the undergraduate degree and the law degree in six years. Indeed, students who do not secure their Arts degrees in addition to their Law degrees will be at a disadvantage.

11. UNIVERSITY TEACHERS' CERTIFICATE

In accordance with the statutes of Wisconsin, certificates are issued to all graduates of a regular college course who complete the course in pedagogical instruction prescribed by the University. This certificate, when presented to the State Superintendent of Public Instruction, 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. See pages 82–83.

12. HONORS IN SCHOLARSHIP

Sophomore honors are awarded on the basis of a minimum of two full years of work (not less than 60 credits) completed in residence in the University. A student securing during these two years 135 grade-points, plus 1.5 grade-points for each credit above 60 required in his course, will be

awarded Sophomore Honors; a student securing during these two years 165 grade-points, plus 2 grade-points for each credit above 60 required in his course, will be awarded Sophomore High Honors.

Senior honors are awarded on the basis of the academic requirements for the second half of any four-year course, all of which have been completed in residence at the University. A student securing 135 grade-points, plus 1.5 grade-points for each credit above 60 required in his course for completing the second half, will be awarded Senior Honors; a student securing 165 grade-points, plus 2 grade-points for each credit above 60 required in his course for completing the second half, will be awarded Senior High Honors. This rule will not be construed so as to bar any student from securing Senior Honors who has been permitted to carry *more* than the minimum number of credits during the first two years of his course and *less* than the minimum during the last two years.

Honors in the major may, upon recommendation of the department, be granted at graduation to any student who has done superior work in his major and who has passed with distinction a comprehensive examination on the work offered for his major. Students doing all their work in course, as well as those doing it partly in course and partly outside of course, shall, with the approval of the department, be eligible for such examination and honors.

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

The names of students awarded sophomore honors are bulletined in Bascom Hall; those of students awarded senior and thesis honors and honors in the major are published in the Commencement Register.

III. REQUIREMENTS FOR THE GENERAL COURSES

LEADING TO THE DEGREES OF BACHELOR OF ARTS AND BACHELOR OF PHILOSOPHY

13. CLASSIFICATION OF STUDENTS

RANK. A student must have 25 grade-points and at least 25 credits before he may be classified as a sophomore; 58 grade-points and at least 58 credits before he may be classified as a junior; and 88 grade-points and at least 88 credits before he may be classified as a senior.

UPPER AND LOWER GROUPS. At the close of the sophomore year all students in the College of Letters and Science are provisionally divided into two groups on the basis of grade-points earned during the freshman and sophomore years. Students who have earned at least 50% or more grade-points than credits by the end of the sophomore year (or at any subsequent time) are designated as upper-group students. A student's upper-group status continues throughout the remainder of his college course as long as the total of all grade-points earned in college is 50% greater than the total number of credits earned. At the discretion of departments, upper-group students are eligible for more advanced work than other students, but they must comply with the thesis requirement for graduation. For other students the thesis requirement is optional with the major department.

ADVANCED STANDING. Students transferring to the University of Wisconsin from other institutions with from 45 to 90 credits shall be regarded as upper-group students after they have completed one semester of work at this University, provided they have earned during this period 50% more grade-points than credits.

14. MAJOR STUDY

At the beginning of the sophomore or the junior year every candidate for these degrees will normally select his major subject in one department of the College of Letters and Science. This department prescribes the manner in which the work of the major shall be completed, as stated in connection with the announcement of courses offered by the several departments. At least as many grade-points as credits must be earned in the major subject.

In completion of the requirements for the major study, departments may permit upper-group students to substitute individual work, under the guidance of some member of the department, for a prescribed number of credits ordinarily earned in class. Such optional substitution of individual for class work is subject to the approval of the Dean of the College. Students electing to do individual work in lieu of regular class work, shall, toward the end of their senior year, pass a comprehensive examination on the work offered for the major both in course and outside of course.

The candidate must accumulate at least 80 credits for work done outside of any one department, *provided* that in these 80 credits shall be counted, for purposes of this section: (a) teachers' courses not in excess of a total of four credits, and (b) first and second-year work, not exceeding 14 credits, in a second foreign language in the same department.

15. 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 be 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 carries four credits toward the major requirement and toward graduation. It shall be deposited in the University Library by the second Friday before Commencement and its title, as approved in advance by the thesis adviser, will appear in the Commencement Register.

One of the following substitutes for the thesis may be allowed when, in the judgment of the department, it is advisable: (a) 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, or (b) 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 four credits and shall be so certified by the instructor on the class 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 second Friday before Commencement.

For the regulation excluding certain students from the privilege of writing a thesis or a substitute for the thesis (as defined above), see Classification of Students, section 13 above.

16. ELECTION OF THE JOINT LIBRARY COURSE

For conditions under which a student may elect work in the Library School, see page 113.

17. MAJOR IN MEDICAL SCIENCE

A major in medical science is authorized for the degree of B.A. in the general course. Candidates for this degree may not be registered in the Medical School for more than one year. In addition to the regular requirements for the degree, the student electing this major shall earn, as prerequisite to it, at least 10 credits in each of the following subjects: general chemistry, biology, and physics; and at least 4 credits in organic chemistry. The work in the major shall consist of at least 20 credits, including thesis, in the medical sciences and 10 of them shall be within a single department of the Medical School. Students who wish to take the Course in Medical Science leading to the degree of Bachelor of Science are referred to the bulletin of the Medical School.

The requirements of the pre-medical curricula are listed on page 73.

IV. SPECIAL REQUIREMENTS FOR THE B.A. GENERAL COURSE

18. OUTLINE OF CURRICULUM

(a) English: 10 or 12 credits, as follows: 6 credits in freshman composition; 4 or 6 credits in sophomore literature (English 33 or 30). Students securing a grade of A in the first semester of the composition course may, if they so desire, omit the second semester of it. On the completion of English 1 a provisional pass mark is given; if at any time later in his course a student is reported as deficient or careless in English composition he may be required to take additional work in that subject.

(b) Foreign language: 32 credits in one, two, or three of the foreign languages specified below are required for graduation. These credits may be earned partly in high school and partly in the University, or wholly in the University. High-school work is accepted in satisfaction of the foreign-language requirement at the rate of four university credits for one unit, up to the amount of six units or 24 university credits. A student is not permitted to repeat in college, for credit, the equivalent of a course in foreign language which he has had in high school. French, German, Classical Greek, Hebrew, Italian, Latin, Norse, and Spanish, and no other languages, may be offered either for entrance or graduation.

Students entering from foreign countries where they have studied English as a foreign language in recognized secondary schools or colleges, may be allowed not more than four entrance units for their work in English as partial fulfillment of the foreign language required for graduation. Such students, including those entering with advanced standing, will take the preliminary tests in freshman English administered at the beginning of each semester, and those who fail to pass these tests must take work in sub-freshman English. Students presenting English as a foreign language for the B.A. degree must secure at least sixteen credits in another foreign language accepted by the University of Wisconsin and excluding their mother tongues, and must continue such foreign language at this University for at least one year.

In general, students are required to take a minimum of 8 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 32 credits, provided he passes a special examination given thereon by the college. This examination will normally be given before the Christmas holidays in the first semester of the student's freshman year. Eight credits is the least amount of a foreign language which will be accepted toward the foreign-language requirement of any course, and if two or three languages are presented at least 16 credits must be in one language. Students choosing a foreign-language major must present a second foreign language.

(c) Two of the following: natural science, 10 credits, *in a continuous year course;* mathematics, 8 credits; history, 6 credits, *in a continuous year course.* A student is not permitted to repeat in college, for credit, the equivalent of a course in mathematics which he has had in high school.

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

(d) Major study, thesis, and electives. See sections 14 and 15 above.

19. STUDIES OF THE FRESHMAN YEAR

In this year only one subject is definitely required, English 1, freshman composition, 3 credits per semester. The other subjects, sufficient to make up a program of 14, 15, or 16 credits for the semester, are to be chosen from the groups listed below, composed of subjects which extend for two semesters, unless otherwise indicated. The combination may be made by adding to English two foreign languages from Group I, with one subject from Group II; or by taking but one foreign language with two subjects from Group II.

GROUP I. FOREIGN LANGUAGE. At least one subject must be chosen from this group, but not more than 5 credits per semester may be taken in any single subject. Students may not take for credit courses which are equivalent to those completed in high school. Advanced courses in language are open to students of suitable preparation.

French 1, 10, 13, 15, 16, 20—3 to 5 credits per semester
German 1, 2, 3—4 credits per semester
Greek 1, 7—3 or 4 credits per semester
Hebrew 1—4 credits per semester
Italian 1—4 credits per semester
Latin 1, 2, 3, 4, 6—4 or 5 credits per semester
Norse 1—4 credits per semester
Spanish 1, 10, 15, 20—3 to 5 credits per semester

GROUP II. MATHEMATICS, SCIENCE, HISTORY. At least one subject must be chosen from this group, but not more than 5 credits per semester may be taken in any single subject.

MATHEMATICS: The following are semester courses which are repeated each semester:

Mathematics 1 (college algebra)—4 credits
Mathematics 2 (trigonometry and analytic geometry)—4 credits
Mathematics 7 (theory of investment)—4 credits

SCIENCE:

Biology 1—5 credits (Botany 1 in the first semester, followed by Zoology 1 in the second semester, or Zoology 1 followed by Botany 1)
Botany 1, 2—5 credits per semester
Chemistry 1—5 credits per semester
Geography 1, 2—5 credits per semester
Geology 1—5 credits per semester
Physics 1 or 31—5 credits per semester
Zoology 1, 2—5 credits per semester

HISTORY:

History 1 (medieval)—3 credits per semester
History 5 (English)—3 credits per semester
History 10 (ancient)—3 credits per semester

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

DRAWING:

Drawing 1, 2 (mechanical)—3 credits per semester
Drawing 50, 51 (freehand)—3 credits per semester

Drawing may be substituted for history during the freshman year, but in this event a history course must be taken in the sophomore year.

20. STUDIES OF THE SOPHOMORE YEAR

In the sophomore year the student must continue his English for two semesters, as well as his foreign language, unless the requirement has already been met; likewise his history, mathematics, or science, unless this group requirement has been absolved in his freshman year, together with additional Letters and Science courses necessary for a full program.

V. SPECIAL REQUIREMENTS FOR THE PH.B. GENERAL COURSE

21. OUTLINE OF CURRICULUM

All the studies prescribed below are to be taken in college:

(a) English, 10 credits of freshman and sophomore composition (English 1 and 2) for students who do not carry foreign language successfully throughout the freshman year; 6 credits of freshman composition for those who do carry foreign language successfully throughout the freshman year.

(b) Science and mathematics: A total of 20 credits to be taken in year courses; e. g., 8 credits in mathematics and 12 in science, or 10 credits in mathematics and 10 in science, or 20 in mathematics, or 20 in science. Only the laboratory sciences as approved for the B.A. course will be accepted as meeting this requirement.

(c) Two of the following groups:

1. Philosophy and psychology; or mathematics—10 credits in one of the two. Mathematics may not be offered both here and under (b) above.
2. History, 10 credits, to be taken in year courses. Courses in the "hundred" group may be credited by semesters.
3. Foreign language, 14 credits, not more than 8 of which may be in a beginner's course.

(d) Major study, thesis, and electives. See sections 14 and 15 above.

22. STUDIES OF THE FRESHMAN YEAR

The same subjects are open to freshmen in this course as in the B.A. course, and on the same terms. (See section 19.) 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.

English 3 credits, history 3 or 5, science 5, drawing 3.
English 3 credits, science 5, mathematics 4, history 3.
English 3 credits, science 10, history 3.
English 3 credits, science 5, history 3 or 5, drawing 3.

(b) With foreign language.

English 3 credits, language 4 or 5, history 3, science 5.
English 3 credits, language 4, history 3 or 5, mathematics 4.
English 3 credits, language 4, science 5, mathematics 4.
English 3 credits, language 4 or 5, mathematics 5, history 3.

Students who may elect as indicated in (b) will be in line, if they so choose, 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 and psychology or in mathematics, and 10 in history. Students may elect two foreign languages, but such students will ordinarily enter the B.A. course.

23. STUDIES OF THE SOPHOMORE YEAR

In the sophomore year the students in this course must complete the specified requirements so far as the printed schedule permits.

VI. NORMAL COURSE

LEADING TO THE DEGREE OF BACHELOR OF PHILOSOPHY

Graduates of the two-year departmental courses of the state teachers' colleges are admitted to advanced standing in the various courses and colleges of the University on conditions given under the heading of Admission. A special course, leading to the degree of Bachelor of Philosophy, Normal Course, has been arranged by the University to meet the needs of most of such graduates, who are ordinarily admitted to junior standing in candidacy for this degree and granted 60 credits toward the total of 120 required for graduation. The course contains a minimum required amount of advanced studies in philosophy (or psychology) and education—6 credits in each—with the privilege of further elections in these subjects. Broadly speaking, the general rule holds that the student may not repeat in the University for credit the equivalent of a course he has had in high school or elsewhere. All the courses in philosophy and psychology, with the exception of Psychology 1, are open to election by students enrolled in this course. In education, the only courses which may be elected in fulfillment of the requirements are those numbered above 100 on pages 151–157 of this bulletin. 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.* Any student in this course who offers work in foreign language equal in amount and distribution to what is 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.

Upon entering this course the student selects the department of his major study and is assigned to an adviser who will assist him in arranging his work so as to satisfy the requirements, which may ordinarily be completed within two years. It is expected that the student in this course will give special attention to preparation for teaching some one subject and that he will choose his studies with this end in view. It should be borne in mind, however, that the required work of the course and of the major impose a definite limitation on the number of electives which may be offered, and that the required work takes precedence over electives. Attention is called to the specifications in sections 14 and 15 above relative to completing a major and writing a thesis, and to the requirements for the University Teachers' Certificate on page 82.

This course will be discontinued in August, 1932.

Junior Year. Foreign language, 4 or 5 credits each semester; 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.

* An exception to this requirement is made in the case of a student who has had altogether five years of experience in teaching. He will be allowed to substitute for the required work in language 16 credits in language, literature, history, or philosophy, of which at least 12 credits must be (and all 16 may be) in one of the four fields named. They may not be taken in the department of the major, and if philosophy is chosen, the credit must be in addition to the 6 credits regularly prescribed. A single semester of a year course will not be accepted toward the absolving of this requirement unless the year course in question belongs to the "hundred" group.

VII. COURSE IN CHEMISTRY

J. H. MATHEWS, DIRECTOR, PROFESSOR OF CHEMISTRY

The purpose of the Course in Chemistry is to train competent chemists for industrial, governmental, and teaching positions. The United States is a leading nation in chemical industries and our continued industrial success is largely dependent on the ability of our universities to supply the ever-increasing demand for men with adequate chemical training. In recent years this demand has not been met. 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. Chemical control and research are necessary in practically every industry.

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 those laboratories are most desirable, as they afford specialized training which leads to the attainment of exceptionally lucrative positions. Research laboratories are being established for a great variety of purposes, and these laboratories must ever look to the universities for trained chemists. For these positions, especially, it is highly desirable that the four-year course in chemistry be followed by from one to three years of graduate work. The demand for the exceptionally well-trained man is steadily increasing and, whenever it is possible, the student who shows an aptitude for chemistry should plan for graduate training.

The thoroughly trained teacher of chemistry has an exceptional opportunity to play an important role in the social, economic, and industrial development of the nation. His opportunities to aid in the dissemination of useful knowledge, in the development of a wider appreciation of scientific knowledge, and to contribute to scientific progress both by his teaching and his opportunity for personal research, are such as to make this profession unusually attractive to those who have a sincere desire to serve their fellow men.

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. Several 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.

Four courses of study are offered: A general course, a course for industrial chemists, a course for food or sanitary chemists, and a course for agricultural chemists. Attention is called to the fact that specialized train-

ing 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.

REQUIREMENTS. Students having the entrance requirements prescribed for the College of Letters and Science may be admitted to this course. It will be observed from the outline of the curriculum below that the work of the freshman year is identical in each of the four fields of study, and in all of them a year each of general inorganic, analytical, organic, and physical chemistry is required. The course in English is the composition 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, but preparatory work in these languages may satisfy the graduation requirement in part. A student entering with preparation in but one of these languages will naturally continue work in it during the freshman year.

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 of them 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.

COURSE IN CHEMISTRY

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, CHEMISTRY COURSE

ALL OPTIONS

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Chem. 1a—General chemistry	5	Chem. 1b—General chemistry and qualitative analysis	5
Math. 1—College algebra	4	Math. 2—Trigonometry and analytic geometry	4
German or French	4	German or French	4
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Physical activity requirement	0	Physical activity requirement	0
	16		16

GENERAL OPTION

SOPHOMORE YEAR

If Math. 5a be taken in the first semester, it should be followed by Math. 5b in the second; if Chem. 10 be taken in the first semester, it may be followed by either Math. 5a or Geol. 7 in the second.

Chem. 11a—Quantitative analysis	5	Chem. 11b—Quantitative analysis	5
German or French	4	German or French	4
Physics 31—General physics	5	Physics 31—General physics	5
Math. 5a—Differential calculus, or	3	Math. 5b—Integral calculus, or	3
Chem. 10—Mathematical chemistry	(3)	Geol. 7—Short course in mineralogy	(3)
Physical activity requirement	0	Physical activity requirement	0
	17		17

JUNIOR YEAR

Chem. 120, 121—Organic chemistry	5	Chem. 120, 121—Organic chemistry	5
Chem. 130, 131—Physical chemistry	5	Chem. 130, 131—Physical chemistry	5
German or French	4	German or French	4
Elective	3	Elective	3
	17		17

SENIOR YEAR

Chem. 100—Thesis	2	Chem. 100—Thesis	2
Chem. 119—Organic analysis	3	Chem. Engr. 15—Industrial organic chemistry	2
Chem. 107—History of chemistry	2	Agr. Bact. 2—Survey of bacteriology	4
Chem. Engr. 15—Industrial chemistry	3	Electives	7
Electives	5		
	15		15

Of the 18 elective credits, at least 10 must be taken in subjects other than chemistry.

OPTION FOR INDUSTRIAL CHEMIST

SOPHOMORE YEAR

Same as for sophomore year of General Option, except that mineralogy, metallurgy, or calculus may be elected.

JUNIOR YEAR

Same as for junior year of General Option

SENIOR YEAR

Chem. 100—Thesis	2	Chem. 100—Thesis	2
Chem. Eng. 15—Industrial chemistry	3	Chem. Engr. 15—Industrial organic chemistry	2
Chem. Engr. 23—Manufacturing equipment	2	Chemical Engineering electives	4
Econ. 11—Business management	2	Electives	7
Electives	6		
	15		15

OPTION FOR FOOD CHEMIST OR SANITARY CHEMIST

SOPHOMORE YEAR

Chem. 11a—Quantitative analysis	3	Chem. 11b—Quantitative analysis	3
German or French	4	German or French	4
Physics 31—General physics	5	Physics 31—General physics	5
Agr. Bact. 1—Survey of bacteriology	5	Botany 1—General botany	5
Physical activity requirement	0	Physical activity requirement	0
	17		17

JUNIOR YEAR

German or French	4	German or French	4
Chem. 120, 121—Organic chemistry	5	Chem. 120, 121—Organic chemistry	5
Bot. 110—Plant histology	3	Bot. 111—Microscopical examination	3
Chem. 119—Organic analysis	3	Chem. 146, 147—Chemistry of foods	5
Elective	2		
	17		17

SENIOR YEAR

Chem. 100—Thesis	2	Chem. 100—Thesis	2
Chem. 130, 131—Physical chemistry	5	Chem. 130, 131—Physical chemistry	5
Chem. 107—History of chemistry	2	Chem. 113—Water analysis	1
Electives	6	Electives	7
	15		15

Of the 15 elective credits, at least 8 must be taken in subjects other than chemistry.

OPTION FOR AGRICULTURAL CHEMIST

SOPHOMORE YEAR

Chem. 11a—Quantitative analysis	3	Chem. 11b—Quantitative analysis	3
German or French	4	German or French	4
Bot. 1—General botany	5	Agr. Chem. 1—General agricultural chemistry	3
Physics 31—General physics	5	Agr. Chem. 2—Agricultural analysis	2
Physical activity requirement	0	Physics 31—General physics	5
		Physical activity requirement	0
	17		17

JUNIOR YEAR

Chem. 120, 121—Organic chemistry	5	Chem. 120, 121—Organic chemistry	5
German or French	4	German or French	4
Agr. Chem. 121—Dairy chemistry	5	Agr. Bact. 2—Survey of bacteriology	4
Electives	3	Elective	4
	17		17

SENIOR YEAR

Chem. 100—Thesis	2	Chem. 100—Thesis	2
Chem. 130, 131—Physical chemistry	5	Chem. 130, 131—Physical chemistry	5
Agr. Chem. 122—Animal chemistry	5	Physiol. 3—Animal physiology, or	4
Elective	3	Bot. 146—Plant physiology	(4)
		Electives	4
	15		15

Of the 14 elective credits, at least 8 must be taken in subjects other than chemistry.

VIII. CHEMISTRY–COMMERCE COURSE

J. H. MATHEWS, DIRECTOR, PROFESSOR OF CHEMISTRY

The need for such a course arises from the fact that men of affairs in the industrial world are often handicapped because they do not possess a fundamental knowledge of the technical principles involved in their business. This course is intended particularly for students who desire to fit themselves to hold commercial positions such as business managers, technical secretaries, managerial secretaries, sales managers, purchasing agents, technical salesmen, and in fact any commercial position in which a thorough understanding of fundamental chemical principles would be an asset.

REQUIREMENTS. 130 credits are required for graduation, of which not more than 14 may be in the starred courses in economics, nor more than 40 in any single department. Students with fifty per cent more grade-points than credits at the close of the junior year will write a thesis in chemical industry in the senior year; others will take a course in chemistry prescribed by the Chemistry Department.

The requirement in foreign language is 24 credits in French, German, or Spanish, of which at least 16 must be in one language and at least 8 more in the same or a second language. Students who present for entrance less than two units in one foreign language will be required to continue the study of foreign language in the junior year in place of some of the optional and elective work.

CHEMISTRY–COMMERCE COURSE

LEADING TO DEGREE OF BACHELOR OF SCIENCE, CHEMISTRY–COMMERCE COURSE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Math. 1—College algebra	4	Math. 7—Theory of Investment	4
Foreign language	4	Foreign language	4
Chem. 1a—General chemistry	5	Chem. 1b—General chemistry and qualitative analysis	5
Physical activity requirement	0	Physical activity requirement	0
	16		16

SOPHOMORE YEAR

Chem. 20—Organic chemistry	4	Chem. 11a—Quantitative analysis	4
Econ. 1a—General economics	4	Econ. 1b—General economics	4
Foreign language	4	Foreign language	4
Physics 1a or 31—General physics	5	Physics 1b or 31—General physics	5
Physical activity requirement	0	Physical activity requirement	0
	17		17

JUNIOR YEAR

Econ. 13—Marketing methods	3	Econ. 31—Business statistics	3
Econ. 6—Business letter writing	2	Econ. 11—Business management	2
Econ. 8a—Elements of accounting	3	Econ. 5—Money and banking	3
Electives	8	Electives	8
	16		16

SENIOR YEAR

Chem. 100—Thesis	2	Chem. 100—Thesis	2
Commercial chemistry	3	Commercial chemistry	2–3
Econ. 137, 142, or 181	3	Electives	12–11
Commercial law	2		
Electives	6		
	16		16

Of the 32–33 elective credits, at least 3 per semester in the junior year must be in courses in chemistry, and at least 3 in the senior year in economics courses.

IX. COURSE IN HUMANITIES

COMMITTEE IN CHARGE: PROFESSORS BRUNS, BYRNE *(Chairman)*, DODGE, ROGERS, F. C. SHARP, WAGNER, WINSPEAR.

PURPOSE AND PLAN. It had long been felt by a large number of professors in the College of Letters and Science that the citizens of the State would welcome the establishment of a course based upon the curriculum of the old college of liberal arts, with modifications which the trend of education in the last two generations has shown to be advisable. Consequently, in 1920, such a course, leading to the degree of Bachelor of Arts, Course in Humanities, was instituted for the benefit of students willing to devote part of their college work to non-professional, purely cultural development, either for its own sake or as a preparation for special study.

Students may here secure substantial introductions to the four great fields of learning: language and literature; history and its correlated branches; science; philosophy and mathematics. They will come into vital contact with at least one of the great civilizations of the ancient world. They will acquire the power to acquaint themselves with at least one of the great foreign civilizations of the modern world. They will have training in English composition and spend at least a year with the masters of English literature. They will be given the opportunity in courses in history, economics, and political science to gain knowledge regarding the institutions of the past and of the present, and to study methods of analyzing social facts. An introduction to one of the sciences will open to them the world of natural phenomena, and bring to them some experience in scientific method. Courses in philosophy and mathematics will serve to induce in them habits of close reasoning.

It is believed that students who seek what is called a "general education" will see the desirability of the initiation into these four fields which is required in the new course. It is believed, also, that students who feel the need of passing quickly to a special subject with the intention of concentrating their attention upon it will consider that the delay entailed by the satisfaction of the requirements in the new course will be justified by the enlarged vision with which it will insure their entering upon their specialized work.

REQUIREMENTS. The general requirements of this course are identical with those of the General Course leading to the degree of Bachelor of Arts, and the regulations pertaining thereto also govern students in this course, excepting as modified by the following special requirements and rules. (See pages 56–60.) The major must be chosen from the fields of language, literature, science, economics, history, political science, mathematics, or

philosophy. Professional subjects, excepting such as may be required for the teachers' certificate, are not open for election by students in this course. Some member of the committee in charge will be assigned as the student's adviser and will inform him whether or not any given subject is professional. Upon successful completion of the requirements outlined below, including 120 academic credits and at least an equal number of grade-points, the student will be admitted to the degree of Bachelor of Arts, Course in Humanities.

The student will meet the following special requirements:

(a) 12 credits in English composition and literature;
(b) three of the following four options in foreign language and literature, to be absolved by combining high-school units and college credits: (1) 24 credits in Latin; (2) 14 credits in Greek; (3) a reading knowledge of French; (4) a reading knowledge of German;
(c) 10 credits in the field of economics, history, and political science, of which at least 6 credits will be in history (freshmen will ordinarily elect 8 credits in medieval history);
(d) 10 credits in natural science;
(e) 12 credits in the field of mathematics and philosophy. Elections in philosophy shall be made after consultation with the chairman or the secretary of the Course in Humanities.

COURSE IN HUMANITIES

LEADING TO THE DEGREE OF BACHELOR OF ARTS, COURSE IN HUMANITIES

RECOMMENDED SEQUENCE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Hist. 1—Medieval history	4	Hist. 1—Medieval history	4
Foreign language	3–5	Foreign language	3–5
Mathematics or foreign language	3–4	Mathematics or foreign language	3–4
Physical activity requirement	0	Physical activity requirement	0
	14–16		14–16

SOPHOMORE YEAR

Engl. 30a—General survey of literature	3	Engl. 30b—General survey of literature	3
Foreign language	3–5	Foreign language	3–5
Science	5	Science	5
Required subject (see list below)	3–4	Required subject (see list below)	3–4
Physical activity requirement	0	Physical activity requirement	0
	14–17		14–17

SUBJECTS RECOMMENDED FOR SOPHOMORE YEAR IN FULFILLMENT OF REQUIREMENTS

Econ. 1a—General economics	4	Econ. 1b—General economics	4
Pol. Sci. 1—Introduction to government and politics	3	Philosophy 11, 21, or 132	3
Philosophy 11, 21, 31, or 41	3	Psych. 1—Introductory psychology	3
Psych. 1—Introductory psychology	3	Math. 5 b—Integral calculus	3
Math. 5a—Differential calculus	3		

X. COURSE IN PHARMACY

EDWARD KREMERS, DIRECTOR, PROFESSOR OF PHARMACEUTICAL CHEMISTRY

OBJECT. The object of the Course in Pharmacy is to furnish a thoroughly scientific foundation for the pursuit of the profession of pharmacy in all its branches; to prepare students not only to operate drug stores but to fit them as well for other lines of pharmaceutical activity,—to enter hospital practice, to take up pharmaceutical manufacturing, to engage in pharmaceutical research and the teaching of pharmaceutical subjects, or to enter the government service. The elements of the fundamental natural sciences, botany, chemistry, and physics, must be studied and their principles understood before their application to pharmacy can be rationally considered. For this reason students in pharmacy are required to pursue general elementary courses in these fundamental sciences, where they have the advantage of close association with students in other departments of the University.

The general study of these fundamental sciences is followed by more or less specialized courses. General botany is followed by courses in vegetable histology and the anatomy of drugs; general chemistry, organic and inorganic chemistry, and qualitative and quantitative analysis are followed by courses in pharmaceutical and plant chemistry. General physics is followed by the application of physics to pharmacy.

The practitioner of any profession must be familiar with the literature of that profession. To this end he must be able to read the language in which this literature is written. A pharmacy student must, therefore, not only have command of the English language, but he must be able to read other languages, at least French and German. For this reason students in the four-year pharmacy course are expected to acquire a reading knowledge of both French and German.

COURSES. Two courses in pharmacy are offered, the three-year course leading to the degree of Graduate in Pharmacy, and the four-year course leading to the degree of Bachelor of Science, Pharmacy Course. The three-year course has been carefully planned to accommodate those students who are unable to remain four years at the University, as well as to meet the advancing requirements of pharmaceutical education. It has been so arranged that by a judicious choice of electives, a student, after graduation from the three-year course, may return to the University and complete the requirements of the four-year course in one year. The four-year course was created to accommodate those students who desire to obtain a general scientific education and to include in their course the pharmaceutical studies, and with the hope of stimulating a broader pharmaceutical education.

ADVANCED WORK. 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. Accordingly, the graduate courses in pharmacy make up an important part of the work of the department, advanced courses and research facilities in pharmacy, pharmaceutical and plant chemistry, and pharmacognosy being provided. 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 pharmacy, not less than in other departments of the University, offers excellent opportunities for specialized study and research.

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 and laboratories for pharmaceutical technique, practical pharmacy, pharmaceutical and plant chemistry, and a research laboratory. On the fourth floor are located the Frederick B. Power Pharmaceutical Library, the drug cabinet, the milling room, a laboratory for extraction and distillation purposes, equipped with steam and vacuum apparatus, a laboratory for the study of pharmacognosy, and a research laboratory.

THREE-YEAR COURSE IN PHARMACY

LEADING TO THE DEGREE OF GRADUATE IN PHARMACY

FIRST YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Chem. 1a—General chemistry	5	Chem. 1b—Qualitative analysis	5
Bot. 1—General botany	5	Chem. 15—Quantitative analysis	2
Pharm. 1—Pharmaceutical technique	3	Bot. 130—Seed plants	3
Physical activity requirement	0	Pharm. 1—Pharmaceutical technique	3
		Physical activity requirement	0
	16		16

SECOND YEAR

Chem. 20—Organic chemistry	4	Pharm. Chem. 27—Organic pharmaceutical chemistry	5
Pharm. Chem. 26—Inorganic pharmaceutical chemistry	5	Bot. 111—Microscopical exam. of drugs	3
Bot. 110—Plant histology	3	Pharm. 20—Elementary prescription practice	2
Pharm. 20—Elementary prescription practice	2	Pharmacog. 10—Sources of drugs	1
Pharmacog. 10—Sources of drugs	1	Pharm. 51—Drug-store practice	1
Pharm. 51—Drug-store practice	1	Electives	4
Physical activity requirement	0	Physical activity requirement	0
	16		16

THIRD YEAR

Pharm. 30—Pharmaceutical technology	5	Pharm. 121—Adv. prescription practice	2
Pharmacog. 120—Natural history of drugs	3	Pharmacog. 120—Natural history of drugs	3
Pharm. 40—Plant chemistry	3	Pharm. Chem. 40—Plant chemistry	3
Pharm. Chem. 50—History of pharmacy	1	Pharm. 45—Alkaloidal assay	1
Pharm. 100—Thesis	2	Pharm. 50—History of pharmacy	1
Elective	2	Pharm. 100—Thesis	2
		Electives	4
	16		16

Eight of the ten elective credits must be taken outside of the Departments of Pharmacy, Chemistry, and Botany.

FOUR-YEAR COURSE IN PHARMACY

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, PHARMACY COURSE

In general, this course includes all that is required in the three-year course, or acceptable substitutes, and, in addition, general physics, a reading knowledge of French and German, and sufficient electives to make 120 credits. An equal number of grade-points, half of which must be earned during the first two years, is also required. The foreign-language requirement is usually interpreted to mean 8 credits of French and 16 credits of German, to be satisfied by work in either the high school or the university. A student in the four-year pharmacy course is normally permitted 10–15 credits of free electives. These may be chosen, upon consultation with the adviser, either inside or outside the department, along any line in which the student is interested.

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 coöperate 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 coöperation with both pharmacists and physicians in securing for the sick the best medicines that pharmaceutical science and art can provide, and further, by coöperation with the State Board of Pharmacy, the State Board of Health, and the Dairy and Food Commission, to bring about these results.

The staff of the Experiment Station is made up of members of the faculty of the Department of Pharmacy. A garden of about forty acres for the scientific cultivation of medicinal plants and a laboratory for the investigation of problems connected with the preparation and testing of crude drugs, pharmaceutical preparations, and chemicals are maintained. Reports on the work of the Experiment Station are published from time to time and distributed to persons interested. For copies of these reports application should be made to the Director.

WISCONSIN PHARMACEUTICAL RESEARCH FUND

Recognizing the growing importance of research to the science and art of pharmacy, the pharmaceutical alumni and other friends of the University have established a fund, known as the Wisconsin Pharmaceutical Research Fund of the University of Wisconsin. The first contributions to this fund, amounting to $1000, were presented in June, 1917, and accepted by the Regents in the name of the University. Since 1917, by gifts and accrued interest, the fund has increased until it now totals more than $10,000. Half of the income of this fund may be devoted directly to pharmaceutical research while the remainder goes to augment the principal. Thus a permanent and ever-increasing endowment for pharmaceutical research at the University of Wisconsin is assured.

XI. PREMEDICAL CURRICULA

RECOMMENDED SEQUENCE FOR THE THREE-YEAR COURSE

LEADING EVENTUALLY TO THE DEGREE OF BACHELOR OF ARTS

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Chem. 1a—General chemistry	5	Chem. 1b—Qualitative analysis	5
French 1a or German 1a	4	French 1b or German 1b	4
History or mathematics	3–4	History or mathematics	3–4
Physical activity requirement	0	Physical activity requirement	0
	15–16		15–16

SOPHOMORE YEAR

Engl. 30a or 33a—Literature	3–2	Engl. 30b or 33b—Literature	3–2
Chem. 20, 21 or 120, 121—Organic chem.	4–5	Zoology 2 or 104	5
Zoology 1—Animal biology	5	French 10b or German 2b	3–4
French 10a or German 2a	3–4	Elective	5
Physical activity requirement	0	Physical activity requirement	0
	15–16		15–16

JUNIOR YEAR

Physics 1 or 31	5	Physics 1 or 31	5
Foreign language	4–5	Foreign language	4–5
Latin 1—Elementary Latin	5	Latin 2—Caesar	5
Electives if foreign language and Latin were pursued in high school	(10)	Electives if foreign language and Latin were pursued in high school	(8)
		Anat. 115—Embryology	2
	14–15		15–17

RECOMMENDED SEQUENCE FOR THE TWO-YEAR COURSE

LEADING EVENTUALLY TO THE DEGREE OF BACHELOR OF SCIENCE, MEDICAL SCIENCE COURSE

FRESHMAN YEAR

Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Chem. 1a—General chemistry	5	Chem. 1b—Qualitative analysis	5
Physics 1 or 31—General physics	5	Physics 1 or 31—General physics	5
French 1a or German 1a	4	French 1b or German 1b	4
Physical activity requirement	0	Physical activity requirement	0
	17		17

SOPHOMORE YEAR

Chem. 20, 21 or 120, 121—Organic chem.	4–5	Anat. 115—Embryology	2
Zoology 1—Animal biology	5	Zoology 2 or 104	5
French 10a or German 2a	3–4	French 10b or German 2b	3–4
Latin 1—Elementary Latin	5	Latin 2—Caesar	5
Elective if Latin was taken in high school	(4–3)	Elective if Latin was taken in high school	(4–3)
Physical activity requirement	0	Physical activity requirement	0
	16–18		15–16

EXPERIMENTAL COLLEGE

ALEXANDER MEIKLEJOHN, Ph.D., LL.D., *Chairman, Brittingham Professor of Philosophy*
WALTER RAYMOND AGARD, B.Litt., *Professor of Greek*
JOHN MERRIMAN GAUS, Ph.D., *Professor of Political Science*
LAURANCE JAMES SAUNDERS, Ph.D., *Associate Professor of History*
SAMUEL GREEN ARNOLD ROGERS, M.A., *Associate Professor of French*
CAMPBELL DICKSON, Ph.B., J.D., *Assistant Professor of Physical Education*
ROBERT JAMES HAVIGHURST, Ph.D., *Assistant Professor of Physics*
DELOS SACKETT OTIS, Ph.D., *Assistant Professor of History*
PAUL RAUSHENBUSH, B.A., *Assistant Professor of Economics*
MALCOLM PITMAN SHARP, M.A., LL.B., S.J.D., *Assistant Professor of Law*
CARL BÖGHOLT, M.S., *Instructor in Philosophy*
FRANCIS STEEGMÜLLER, M.A., *Instructor in English*
JOHN BEECHER, B.A., *Assistant in English*
PAUL HERZOG, B.S., *Assistant in History*
DOUGLASS WINNETT ORR, B.A., *Assistant in English*
JOHN WALKER POWELL, B.A., *Assistant in Philosophy*

The purpose of the Experimental College, as established by the Faculty and Regents of the University, is to discover ways of improving instruction for freshmen and sophomores in the College of Letters and Science. Male students, regularly admitted to the freshman class, may apply for admission to the Experimental College. All the students in the college reside in Adams Hall and the enrollment is limited by the number of rooms available in that building. The faculty offices are located in the same building.

The teaching policy of the college is taking form along the following lines:

1. The aim is definitely liberal. The attempt is made to prepare the mind of the student for dealing with the chief problems of individual and social living.

2. All the teaching methods are made to rest upon the independent work of the student. The college attempts not so much to teach him as to help him to learn for himself. There are weekly assignments of books to be read and papers to be written by the student. The work of the teacher takes the form of tutorial guidance. There are regular conferences with individual students, group conferences, and class meetings at which the reading is discussed and explained by members of the staff and others.

3. In each of the two years of the course the college takes as the object of its study a single civilization. There are no separate "courses" as in the regular curriculum. In the freshman year the Athenian civilization of the fifth and fourth centuries B. C. is studied and in the sophomore year the American civilization of the nineteenth century is taken up.

4. Students in the Experimental College are allowed to take as extras regular subjects in the College of Letters and Science. It is also understood that in the sophomore year students shall be given opportunity to take a course which may be needed as preparation for majoring in the later years.

Students who complete satisfactorily the two-year course in the Experimental College are given full junior standing in the College of Letters and Science and are regarded as having taken the "required studies" of one of the general courses in that college. However, students who are candidates for the Bachelor of Arts degree must arrange to meet the foreign-language requirement for that degree; in doing this they may take the regular language classes of the College of Letters and Science.

In every way possible the attempt is being made to form the "advisers" and students of the Experimental College into a community all the members of which share in the same intellectual interests. At the same time, the students of the college are, in all social ways, regular members of the university community. They have the same freedom as the other students to take part in university activities, literary, musical, dramatic, athletic, fraternity, etc., and their eligibility is determined on the same general principles.

Students who wish to enter the Experimental College should apply for admission to the freshman class in the regular way and should also engage a room in Adams Hall. (The room reservation may be effected by sending a deposit of ten dollars to the University Bursar, accompanied by a statement of the applicant's intention to enroll in the Experimental College). They should then notify the Chairman of the Experimental College of their compliance with the formalities. There are no special fees or requirements for admission to the college; the right of application is open to any male student who is regularly admitted to the freshman class. It is implied in the plan that the students shall be, not a special group, but representative in ability and training of the class as a whole.

Correspondence relating to the college should be addressed to the Chairman, Adams Hall. Admission to the University must, however, be secured by application to the Registrar.

SCHOOL OF COMMERCE

CHESTER LLOYD JONES, DIRECTOR, PROFESSOR OF ECONOMICS

The School of Commerce of the University of Wisconsin, organized in September 1900, offers a three-year curriculum including junior, senior, and graduate years.

REQUIREMENTS FOR ADMISSION

Students who have acquired at least 58 credits and 58 grade-points acceptable for credit in the general B.A. course of the College of Letters and Science may be admitted to the School; however, not less than 60 credits and 60 grade-points should be acquired before entrance by students who wish to complete the undergraduate curriculum in four semesters.

These entrance credits must include (a) those studies required of freshmen and sophomores in the general B.A. course of the College of Letters and Science of the University (see page 58) and (b) eight credits in general economics (Econ. 1a and 1b at this University or the equivalent of these courses). Students are strongly advised also to include in their entrance credits eight in mathematics (four in Math. 7, Theory of investment) and six in physical and commercial geography.

RECOMMENDED PRE-COMMERCE SEQUENCE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Math. 1—College algebra	4	Math. 7—Theory of investment	4
Science, 5 cr.; or history, 3-5 cr.	3–5	Science, 5 cr.; or history, 3-5 cr.	3–5
Foreign language	4–3	Foreign language	4–3
Physical activity requirement	0	Physical activity requirement	0
	14–16		14–16

SOPHOMORE YEAR

Engl. 33a or 30a—Literature	2–3	Engl. 33b or 30b—Literature	2–3
Econ. 1a—General economics	4	Econ. 1b—General economics	4
Foreign language	3–4	Foreign language	3–4
Geog. 5—Regional economic geography	3	Geog. 6—Regional economic geography	3
Electives	4–2	Electives	4–2
Physical activity requirement	0	Physical activity requirement	0
	15–16		15–16

TRANSFERS AND SPECIAL STUDENTS

Students with advanced standing from other institutions and transfers from other courses in the University must meet all the requirements of this School. 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 elsewhere in the sophomore year be accepted in satisfaction of the requirements.

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, who have had here or elsewhere a course equivalent to two years in the College of Letters and Science of this University, and who have had the prerequisites of the particular subjects they wish to pursue. Until such students have demonstrated their ability to maintain a grade of at least C in the courses to which they are admitted, their status will be that of students on probation.

UNDERGRADUATE COURSE OF STUDY

The requirements for the B.A. degree in this School are the same as those of the general B.A. course of the College of Letters and Science in this University, except (1) that 128 academic credits and 128 grade-points (instead of 120) are required for graduation on the basis of the regular grade-point requirements; (2) that Mathematics 7 and commercial law are required; (3) that the major in this School must be in economics and must aggregate not less than 38 nor more than 48 credits; (4) that at least as many grade-points as credits must be acquired in the major; (5) that there be included in the major the following courses:

	Credits
Economics 1a–b—General economics	8
Economics 5—Money and banking	3
Economics 6—Business letter writing	2
Economics 8a–b—Elements of accounting	6
Economics 11—Business management	2
Economics 13—Marketing methods	3
Economics 31—Business statistics	3
Economics 142—Public utilities	3
Electives (as indicated below)	8–18
	38–48

The attention of students is called to the desirability of concentrating in the junior year on the required courses as listed above.

LOWER-GROUP STUDENTS (those whose grade-points do not exceed their credits by at least fifty per cent) are required to diversify the work of the major and may not offer more than two courses from any one of the fields described below for upper-group students. Lower-group students, however, who succeed in earning 50% more grade-points than credits in the work of their major, i.e. the courses required and elected in economics, may ask permission through their advisers to be admitted to thesis work.

INDEPENDENT WORK. Upper-group students who have done distinctly superior work may, beginning with their junior year, undertake special work outside of regular class instruction. Assignments will be made by professors in charge of the various fields and conferences will be held on such assigned work. An examination will be held toward the end of the junior year on such independent work as shall have been assigned for that year. Toward the end of the senior year there will be a final examination which will include general economics, the field of special concentration, and the independent work done under assignments in Economics 180.

UPPER-GROUP STUDENTS (those whose grade-points exceed their credits by at least fifty per cent) are expected to concentrate in a selected field. Their electives must consist of at least twelve credits, including thesis, in one of the following fields:

I. ACCOUNTING	Credits
Econ. 181—Advanced accounting problems	2
Econ. 182—Cost accounting	2
Econ. 183—Accounts of consolidation and income taxes	2
Econ. 184—Auditing	2
Econ. 186—Accounting systems	2
Econ. 187—Governmental accounting	2
Thesis	4

II. FINANCE	
Econ. 137—Business finance	3
Econ. 110—Investments	2
Econ. 133—Financial history of the United States	3
Econ. 191—Credit system	3
Econ. 154—Risk and profit	2
Econ. 124—Taxation	3
Econ. 103—Public expenditures	2
Econ. 153—International finance	2
Econ. 151—Latin America; economic development and trade	3
Thesis	4

III. LABOR AND PERSONNEL	
Econ. 122—Labor problems	3
Econ. 123—Labor legislation	3
Econ. 171—Labor management	3
Econ. 174—Labor market	3
Thesis	4

IV. MARKETING	
Econ. 14—Sales administration	2
Econ. 15—Principles of advertising	2
Econ. 16—Advertising campaigns	2
Econ. 17—Merchandising	2
Econ. 127—Cooperative marketing	2
Econ. 128—Marketing of farm products	3
Thesis	4

V. PUBLIC UTILITIES	Credits
Econ. 195—Public utility management	3
Econ. 135—Railway transportation	3
Econ. 136—Transportation problems	3
Econ. 189—Railway rates and traffic	2–3
Econ. 168—Highway transportation	3
Thesis	4

VI. RISK AND INSURANCE	
Econ. 154—Risk and profit	3
Econ. 121—Property insurance	2
Econ. 138—Life insurance	2
Math. 24—Theory of life insurance	3
Thesis	4

VII. STATISTICS	
Econ. 131—Wages and prices	3
Econ. 132—Statistical analysis of business cycles	3
Econ. 196—Advanced statistical technique	3
Math. 136, 137—Mathematics of statistics	6
Thesis	4

VIII. COMMERCIAL TEACHING

The courses in the School of Education required of all candidates for the university teachers' certificate and not less than two courses selected from one of the above seven fields, together with a thesis.

Students who have fulfilled all the requirements described above will receive the degree of Bachelor of Arts.

Undergraduates in this School may take courses aggregating 17 credits per semester, or 18 per semester in case none of their grades during the preceding semester was below B.

THE GRADUATE YEAR

REQUIREMENTS FOR ADMISSION. To the graduate year of this School may be admitted students who hold the baccalaureate degree from this or other colleges and universities of good standing and whose personalities, character, and undergraduate records give promise of their ability successfully to meet the requirements outlined below and the demands of the business world for trained specialists and leaders. Applications for admission must be made in writing upon forms supplied by the Graduate School of the University.

UNDERGRADUATE PREREQUISITES. Graduate students who, in their undergraduate courses, have not substantially completed the major requirements described above must complete them either before entering upon the course of study outlined below or in connection with it. For such students more than two semesters of residence will be required for the completion of the course, how much more depending upon the number of credits earned during their undergraduate years toward the undergraduate major described above.

COURSE OF STUDY AND OTHER REQUIREMENTS. The work of the graduate year will center in research seminars in the fields of accounting and statistics, marketing, public utilities, finance, and management, subject to the following regulations:

(1) Each student must select one of the foregoing as his field of specialization.

(2) His work for the year will be directed by the professor in charge of the field selected, who will arrange with him a program which shall include: (a) at least one of the research seminars conducted in the field selected; (b) other courses of graduate grade or seminars offered in the field, or assigned readings and papers to be done under his guidance outside of formal courses, or a combination of courses, readings, and papers which, together with his work in the seminar, will occupy not less than one-third nor more than one-half of his time; and (c) courses of graduate grade offered in the other fields mentioned above or in the Department of Economics outside of these fields, or a combination of the two sufficient, together with the credits granted for the work done under the heads (a) and (b), to aggregate not less than 20 credits for the year.

(3) The quality of the student's work for the year will be tested by a thesis or seminary topic on some subject connected with his field of specialization and by an examination at the close of the year covering the principles of economics, statistics and the field of specialization.

(4) Students who successfully pass the tests mentioned under (3) will receive the degree of Master of Arts in Commerce.

THE SCHOOL OF EDUCATION

C. J. ANDERSON, DIRECTOR, PROFESSOR OF EDUCATION

In June, 1919, the Board of Regents authorized the establishment of a School of Education within the College of Letters and Science. The school is an outgrowth of the Course for the Training of Teachers established in 1908. The faculty consists of (1) members of the Department of Education, (2) instructors in charge of departmental teachers' courses and other courses required for the University Teachers' Certificate, (3) an additional representative from each department offering departmental teachers' courses, and (4) teachers in the Wisconsin High School.

The school provides professional preparation for teachers of general high-school subjects; principals, superintendents, and supervisors; teachers of agriculture, home economics, industrial and applied arts, 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 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 equivalent work in other institutions, is required for regular admission and registration.

(a) Students who are candidates for the University Teachers' Certificate must, in addition to the usual registration in one of the colleges, register in the School of Education at the beginning of the junior year.

(b) Each registrant must indicate, for the joint approval of the instructor in charge of a departmental teachers' course and the Director of the School of Education, the subject or subjects, preparation for the teaching of which is contemplated. In no case will more than three related subjects be approved (a major subject; a major and one minor subject; a major and two minor subjects.)

2. Students electing a teaching major in agriculture, in home economics, in industrial education or applied arts, or in physical education may be admitted and registered in the School of Education in their freshman and sophomore years.

Students who expect to complete the requirements of the School of Education and secure the University Teachers' Certificate should report, *at the beginning of the junior year*, to the office of the Director of the School, Room 123 Bascom Hall, immediately after the regular registration in the College of Letters and Science or the College of Agriculture.

Graduates of normal schools and students from other colleges and universities may be admitted with advanced standing, as set forth on page 46.

DEGREES

The School of Education forms administratively a part of the College of Letters and Science. Registrants in the School of Education retain their registration in the College of Letters and Science, or, in the case of those qualifying to teach agriculture or home economics, in the College of Agriculture, and receive upon graduation the degree to which their college credits entitle them. In addition, upon fulfilling the requirements outlined below, they receive the University Teachers' Certificate.

Students who complete the requirements of either of the four-year courses in industrial education or applied arts receive the degree of Bachelor of Science, Industrial Education, or Bachelor of Science, Applied Arts; and those who complete either of the four-year courses in physical education receive the degree of Bachelor of Science, Physical Education.

INDUSTRIAL SCHOLARSHIPS

For the purpose of encouraging advanced study and special professional preparation for teaching in industrial vocational schools, the Regents have established four industrial scholarships to be awarded to senior or graduate students in the University of Wisconsin. Each scholarship has an annual value of $200. Appointment is for one year and is made upon the joint recommendation of the Chairman of the Department of Industrial Education and Applied Arts and the Director of the School of Education. Additional information concerning these scholarships may be obtained from the Chairman of the Department of Industrial Education and Applied Arts.

SUPERVISORY SERVICE BUREAU

A supervisory service bureau has been established for the purpose of assisting graduates of the University of Wisconsin who are teaching in the state to make the transition from university work to classroom teaching. The functions of the bureau are: (1) to provide information dealing with the problems of the first two years of teaching; (2) to visit, on call, teachers who have been graduated from the University of Wisconsin and who are within their first two years of service; (3) to issue bulletins dealing with the problems of teaching; and (4) to study continuously the training of teachers in service, the difficulties of beginning teachers, their improvability, means of improvement, etc.

BUREAU OF EDUCATIONAL RESEARCH

A bureau of educational research has been established for the purpose of coordinating and facilitating research in education with particular reference to the public schools of the state. The facilities of the bureau are available for use by graduate students majoring in education and in allied departments and by superintendents, principals, and teachers throughout the state. Bulletins and studies, reporting the results of investigations, are issued from time to time. (See bulletin of the Graduate Division of Education, Psychology, and Allied Fields.) The work of the bureau is in charge of a committee consisting of members of the faculty of the Department of Education.

UNIVERSITY TEACHERS' CERTIFICATE

Graduation from the School of Education and the recommendation for the University Teachers' Certificate are based upon the following conditions and requirements:

I. A total of 124 credits and 124 grade-points, i.e., 4 credits in addition to the total number otherwise required for graduation.

II. The satisfactory fulfillment of the requirements of preparation for teaching one of the following:

(a) a major subject,
(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, pages 84–92.)

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 fifteen credits, exclusive of the departmental teachers' course.

For teachers of special subjects the satisfactory fulfillment of the requirements of the courses in agriculture, home economics, industrial education, applied arts, or physical education, is necessary.

III. The recommendation of the departments of the major and minor subjects, or 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:

	Credits
Educ. 31—Principles of secondary education	3
Educ. 75—Psychology and practice of teaching	5
Departmental teachers' course	3 or 4
Elective in the Department of Education	4 or 3
	15

VI. Graduates of the professional courses in the state teachers' colleges 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, of the Course in Home Economics, and of the School of Music who have complied with the regulations relative to registration and to approval of major and minor subjects, will be entitled to receive certificates upon fulfillment of the special professional requirements indicated below: Agriculture, page 84; Home Economics, page 89; Music, page 91.

STATE TEACHERS' LICENSE

Upon fulfillment of the foregoing requirements a student will be recommended by the Director of the School to the President of the University, to receive the certified statement prescribed by section 39.75–1 of the Wisconsin Statutes. This certified statement, indicating the subject or subjects the requirements for the teaching of which have been fulfilled, when presented to the State Superintendent, entitles the holder to receive a license to teach for one year in any public school in Wisconsin. Graduates who have received the University Certificate and who present satisfactory evidence of good moral character and two years of successful teaching after graduation are entitled to receive from the State Superintendent an unlimited state certificate.

The fee for state licenses and certificates has been changed by a recent act of the Legislature. Section 39.31, governing this matter, reads as follows: "A fee of two dollars shall be paid to the state superintendent with each application for a license to teach school or for a renewal of such license, or for a state certificate to teach." Licenses are valid for one year; certificates are unlimited as to time.

It may be noted that the requirements for the University Teachers' Certificate differ somewhat from the minimum fixed by the State Superintendent for a license to teach. For a first license the following credits in education are *required:*

	Credits
1. Educational psychology	3
2. Principles of education (or philosophy of education)	3
3. Teachers' course in major subject	2

Fifteen credits in education are required for a life certificate to teach. For the remaining 7 credits the State Superintendent *recommends* selection from the following list; part must be made up for a renewal license, and the remainder for a life certificate:

	Credits
4. Educational practice or practice teaching	2
5. Teachers' course in minor subject	2
6. History of education	3
7. Technique of instruction	2

More specific information may be obtained from the office of the State Superintendent of Public Instruction or from the office of the Director of the School of Education.

Attention is called to the fact that the minimum requirement of the North Central Association is fifteen hours in education.

WISCONSIN HIGH SCHOOL

The Wisconsin High School, a six-year secondary school opened in September 1911, is maintained by the University as an integral part of the School of Education. The primary purposes of this school are (a) the exemplification of sound educational theory and organization, with special reference to secondary education, and (b) the provision of appropriate facilities for observation and directed teaching. The details of organization, program of studies, etc., of the Wisconsin High School will be found in the Bulletin of the School of Education.

COURSES FOR TEACHERS OF SPECIAL SUBJECTS

The University of Wisconsin has for many years provided technical and professional training for teachers of special subjects such as agriculture, home economics, physical education, and industrial and applied arts.

The courses in agriculture and in home economics are given in the College of Agriculture. Students who are planning to teach these subjects, and to qualify for the University Teachers' Certificate, *should register in the School of Education at the beginning of the junior year.* Detailed information concerning all the courses offered may be found in the special bulletins of the College of Agriculture; the requirements for the teachers' certificate appear below.

The courses in industrial education and applied arts and in physical education are given in the School of Education of the College of Letters and Science and are outlined on pages 93–102.

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

Students in the College of Agriculture who wish to prepare for the teaching of agriculture in secondary schools must complete, in addition to a major, the general requirements of the Long Course in Agriculture and the fifteen credits in education required for the University Teachers' Certificate as outlined below. The major consists of a minimum of fifteen elective credits in any department of the College of Agriculture. Students are advised to follow the elective list furnished by the Department of Agricultural Education in order to have proper technical courses.

Students who receive the degree of Bachelor of Science (Agriculture) and who have satisfied the following requirements are entitled to receive the University Teachers' Certificate and a license to teach issued by the State Superintendent: (a) registration in the School of Education at the beginning of the junior year, (b) the recommendation of the College of Agriculture, (c) the completion of the following courses:

	Credits
Educ. 31—Principles of secondary education	3
Educ. 75—Psychology and practice of teaching	5
Agr. Educ. 1—Rural education	2
Agr. Educ. 301—Program building in vocational agriculture	2
Agr. Educ. 302—Teaching of Agriculture	3
	15

Graduates of the professional courses of the state teachers' colleges who are majoring in agriculture and who wish to qualify for the University Teachers' Certificate, should elect 8 credits as follows:

	Credits
Education (advanced)	3–4
Agricultural Education (advanced)	2–3
Departmental teachers' course	3

Candidates may be excused from the departmental teachers' course with the approval of the Chairman of the Department of Agricultural Education.

DEPARTMENTAL TEACHERS' COURSE. Agricultural Education 302. The Teaching of Agriculture. I, II; 3 cr. Mr. Kivlin.

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 20 credits from the following courses: Botany 1, 2, 103, 104, 107, 108, 110, 112, 113, 117, 118, 129, 130, 131, 146, 147, 150, 154, 156, 160.

MINOR. A minimum of 15 credits from the following courses: Botany 1, 2, 103, 104, 107, 108, 110, 112, 113, 129, 130, 131, 146, 160. Attention is called to courses 1 and 2, which together constitute a year's work and which are especially adapted to the needs of those taking a teachers' minor in botany.

DEPARTMENTAL TEACHERS' COURSE. Biology 310. The Teaching of Biology. I, II; 3 cr. Miss Weber.

CHEMISTRY

MAJOR. A minimum of 30 credits, including Chemistry 1a and 1b and at least 6 credits in each of the following, including lectures throughout the year: Chemistry 11, 120, 130.

MINOR. A minimum of fifteen credits.

DEPARTMENTAL TEACHERS' COURSE. Chemistry 311. The Teaching of Chemistry. II; 3 cr. Prerequisites: Chemistry 1; first semester of Chemistry 120, or credit or enrollment for five credits in Chemistry 11. Mr. Walton.

COMMERCE

The School of 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 School of Commerce in the arrangement of elective work.

DEPARTMENTAL TEACHERS' COURSE. Economics 314. The Teaching of Bookkeeping. II; 3 cr. Prerequisite: Senior standing and Economics 8b. Practice teaching in bookkeeping is not offered in the Wisconsin High School; those who elect this course are, however, required to do participation-teaching in another subject. Miss Hensey.

DRAWING

See Industrial Education and Applied Arts, pages 93–96.

ECONOMICS

MAJOR. A minimum of 30 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 page 151. For detailed information relative to the special requirements of courses in education for the University Teachers' Certificate, see page 82.

ENGLISH

MAJOR. A minimum of 34 credits, including freshman composition and either 6 credits in English 30 or 4 credits in English 33, together with at least one course from each of the following groups: (a) 34 (3 cr.), 35 (3 cr.), or 40 (4 cr.); (b) 37, 136, or 137; (c) 120 or 123; (d) a thesis or equivalent. A thesis is required only of upper-group students; others are required to substitute four credits in courses of the 100-group in addition to those offered in satisfaction of the above group requirements. Those who do not write a thesis must also pass English 2a satisfactorily. Students entering with advanced standing are generally required to earn 20 credits in English at Wisconsin.

MINOR. A minimum including courses 30 or 33, 340, an advanced composition course carried throughout a year (2, 5, or 6), and one of the following groups: (a) 34 and 35; (b) 37, 136, or 137; (c) both semesters of 40.

DEPARTMENTAL TEACHERS' COURSE. English 340. The Teaching of English. I, II; 3–4 cr. Prerequisites: Senior standing and satisfactory grade in a qualifying examination covering (1) the elements of grammar, (2) the detection and correction of deviations from standard English, and (3) the English works commonly studied in high schools. This examination is given in the second semester of the junior year. English 123 (or 120) should normally precede English 340. 3 cr. for the minor; 4 cr., including one credit for participation-teaching, for the major. Mr. S. A. Leonard.

All students desiring the departmental recommendation to teach English must pass the qualifying examination referred to above.

FRENCH AND ITALIAN

Students who specialize in French or Italian are advised to elect related courses in history, art, other languages and literatures, and philosophy. Those who expect to continue for advanced degrees should note that knowledge of another foreign language is required for the M.A., and that for satisfactory work in Romance philology some knowledge of Latin is indispensable. Both Latin and German as well as another Romance language are required for the Ph.D. and should be acquired as early as possible.

DEPARTMENTAL TEACHERS' COURSES. French 344. Theory and Practice of Teaching French. I, II; 3 cr. Includes practical work in the Wisconsin High School. Miss Johnson.

French 190. Phonetics. I, II; 2 cr. Mrs. Greenleaf.

FRENCH

MAJOR. Candidates for the University Teachers' Certificate with a major in French must have a proficiency involving comprehension of classical and modern French authors, reasonable ability to understand and speak French, and some knowledge of the history of French literature and culture. They must offer the regular requirements for the major, including or adding the following specific training:

(a) 4 credits of composition and conversation (16, 124, or 127), with grade of *B*, or equivalent training;

(b) 2 credits of phonetics (190);

(c) 3 credits in the teachers' course (344);

(d) 6 credits in courses of literature or civilization in the 100-group. (This requirement will go into effect for seniors graduating in 1931–32.)

(e) 4 credits of thesis or thesis substitute.

MINOR. 18 credits in advance of 1b. Required courses are: 2 credits in composition and conversation, and French 21, or 3 credits in a more advanced course in French literature. Minor students are advised (although not required), to take phonetics, and, if not majoring in a language, to include the teachers' course (344).

French 13 does not count toward the requirement for major or minor.

ITALIAN

MAJOR. (a) 24 credits in advance of 1b, including 4 credits in composition and conversation with an average grade of B. (b) The teachers' course in French or Spanish (344), 3 credits.

MINOR. 18 credits in advance of 1b, including 2 credits in composition and conversation.

GENERAL SCIENCE

MINOR. Fifteen credits in science, five of which must be in physics, five in chemistry, and five in biology, in addition to the departmental teachers' course, Education 319.

DEPARTMENTAL TEACHERS' COURSE. Education 319. The Teaching of Science in the Secondary Schools. I, II; 3–4 cr. Prerequisites: Education 31 and 75. Mr. Davis.

GEOGRAPHY

MAJOR. A minimum of 30 credits as prescribed by the Department of Geography, including course 346.

MINOR. A minimum of 15 credits made up of 10 credits in course 4, 3 credits in course 346, and one other course either regional or topical.

DEPARTMENTAL TEACHERS' COURSE. Geography 346. The Teaching of High-School Geography. II; 3 cr. Mr. Halverson.

GERMAN

MAJOR. A minimum of 24 credits in advance of course 2b. In addition to the thesis, these credits must include courses 10 or 112, 347, 191, 131 (at least for four credits), 150, and 151.

MINOR. A minimum of courses 10, 347, and at least 8 credits in literature from courses beyond 2b, including 4 credits from courses in Group B (see page 178), i. e., at least fourteen credits beyond course 2b.

Students who are preparing to teach German as their major or minor subject and who 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 4 credits in German at Wisconsin.

DEPARTMENTAL TEACHERS' COURSES. German 347. The Teaching of German. I; 3 cr. Methods. For seniors and graduates. Special permission is necessary for graduate credit. Mr. Griebsch.

German 191. Phonetics. II; 2 cr. For seniors and graduates, with special reference to the teaching of German. Conducted in English. Mr. Morgan.

GREEK

MAJOR. A minimum of 24 credits, not including course 1.

DEPARTMENTAL TEACHERS' COURSE. The Department of Classics does not offer a regular departmental teachers' course in Greek. Latin 374 is recommended to candidates who desire to teach Greek.

HISTORY

MAJOR. Candidates are held for the regular requirements of the major in this department (see page 181) but must so arrange their courses as to include History 2 (4 credits), and at least a semester course, either elementary or advanced, in each of the fields of ancient and medieval history, counting History 5a as medieval history. The departmental teachers' course (History 349), also required for the teachers' certificate, does not give credit in history.

MINOR. History 349 and a minimum of 16 additional credits in history, including at least 4 credits in advanced courses at Wisconsin.

DEPARTMENTAL TEACHERS' COURSES. History 349. Teaching of History and the Social Studies. I, II; 2–4 cr. Mr. Phillips.

History 190. Special Problems in the Teaching and Supervision of History and the Social Studies. I, II; 2 cr. Mr. Phillips.

HOME ECONOMICS

MAJOR. In the general education major, the food major, the textile major, the related art major, or the vocational education major, the minimum requirements in home economics subjects taken during the junior and senior years are 25 credits, four of which represent the thesis or its equivalent. The special courses vary with the major, but not more than 40 strictly home economics credits may be counted toward the 124 credits required for graduation. For details see special bulletin of the Course in Home Economics. The following courses are required for the teachers' certificate:

	Credits
Educ. 31—Principles of secondary education	3
Educ. 75—Psychology and practice of teaching	5
Departmental teachers' course	3–4
Electives in the Department of Education	4–3
	15

MINOR. A minor may be taken in foods, textiles, related art, or housing problems, including 10 to 20 credits in strictly related courses.

(1) A teaching minor in foods includes the teachers' course (352) and Home Economics 1a, and other related courses, 2, 3, 4 and 47, to make 15 to 20 credits in strictly home economics subjects.

(2) A teaching minor in textiles includes Home Economics 2, 5, 10, 11, 20, 50, 97, 352, 353, and other courses in home economics to complete 20 credits.

(3) A teaching minor in related art includes Home Economics 2, 12, 20, 8, 18, 93, 94, 95, 116, 194, and related home economics subjects to complete 20 credits.

(4) The housing minor is offered to students majoring in sociology in order that those intending to do special settlement or social welfare work will have a broader foundation knowledge of the fundamental problems in housing. Home Economics 1a, 1b, 70, and other related courses may be elected in the minor.

DEPARTMENTAL TEACHERS' COURSES. Home Economics 352. The Teaching of Home Economics in High Schools. I, II; 4 cr. Miss Henderson, Miss Jones.

Home Economics 353. Study and Preparation of Illustrative Material for High-School Courses in Textiles and Clothing. I or II; 2 cr. Miss Manning and staff.

Home Economics 357. Vocational Education in Home Making. II; 2 cr. History and methods. Gives graduate credit. Miss Henderson.

Home Economics 190. Advanced Course in Home Economics Education. I; 2 cr. Educational problems. Miss Henderson.

Home Economics 194. Problems in Teaching Related Art. II; 2 cr. Miss Hillstrom.

Home Economics 290. Supervision in Home Economics. II; 2 cr. Miss Henderson.

INDUSTRIAL EDUCATION AND APPLIED ARTS

See pages 93–96.

ITALIAN

See page 87.

JOURNALISM

MAJOR. A minimum of 30 credits, including the usual studies of the School of Journalism and, in addition, the departmental teachers' course, Journalism 370. Students combining a minor in English with this major are not required to take advanced courses in English composition, English 2, 5, or 6.

MINOR. A minimum of 15 credits, including at least the first semester of courses 2 and 3, as well as course 370.

DEPARTMENTAL TEACHERS' COURSE. Journalism 370. The Teaching of Journalism. I; 3 cr. Miss Patterson.

LATIN

MAJOR. A minimum of thesis and 27 credits, consisting normally of Latin 6, 7, 107, 374, and 6 credits in reading courses of the 100-group.

MINOR. A minimum of 19 credits, consisting normally of Latin 6, 7, the first semester of 107, and 374.

DEPARTMENTAL TEACHERS' COURSE. Latin 374. The Teaching of Latin. I, II; 3 cr. Miss Guyles.

LIBRARY SCIENCE

The Library School offers the following course for those who are qualifying for positions as high-school librarians:

LIBRARY SCIENCE FOR TEACHERS. Yr; 2 cr. The object of the course is to qualify those taking it to assume, in connection with their teaching, the supervision of high-school libraries, and to give instruction to high-school students in the use of books and libraries and in the means and methods of developing good habits and right tastes in reading. This course does not qualify for full-time school library positions, but is for teacher-librarians as required by the Wisconsin Statutes. Open to seniors and graduate students, and to juniors by special permission. Miss Hazeltine, Miss King.

MATHEMATICS

MAJOR. (a) A minimum of 21 credits which shall consist of courses 5 and 6 (or 54 and 55), 112 or 113, and other courses numbered 100 or above; (b) course 377; (c) a knowledge of solid geometry acquired in the secondary school or elsewhere; (d) course 91 (not required) is recommended as a desirable course for the junior year.

MINOR. A minimum of 15 credits, including course 5a or 54, and excluding courses 7, 24, 136, and 137. It is understood that at least 6 of these credits shall be earned in residence at the University of Wisconsin with a grade not lower than B. In addition, course 377 is required. A knowledge of solid geometry, acquired in college or elsewhere, is expected.

DEPARTMENTAL TEACHERS' COURSES. Mathematics 377. The Teaching of Mathematics. I; 3 cr. Mr. Hart.

Mathematics 91. The Content of Secondary Mathematics. II; 2 cr. Mr. Hart.

MUSIC

The School of Music offers a four-year course leading to the degree of Bachelor of Music; see page 118 for detailed requirements. The following credits are required for the University Teachers' Certificate:

	Credits
Educ. 75—Psychology and practice of teaching	5
Educ. 31—Principles of secondary education	3
Music 45—Introductory Methods in Public School Music	4
Electives in the Department of Education	3
	15

PHYSICAL EDUCATION

See pages 96–102.

PHYSICS

MAJOR. A minimum of 20 credits in approved courses in addition to 4 credits for the thesis.

MINOR. A minimum of 15 credits in approved courses.

DEPARTMENTAL TEACHERS' COURSE. Physics 393. The Teaching of Physics. II; 3 cr. Mr. Steve.

PHYSIOGRAPHY

See Geography, page 87.

PHYSIOLOGY

MAJOR. A minimum of 23 credits as follows: 3 credits in physiological chemistry; 6 credits in anatomy or zoology as approved by the Department of Physiology; 11 credits in physiology, including thesis; 3 credits in any department of the Medical School, as approved by the Department of Physiology.

In order to fulfill these requirements, Physics 1 or 31, Chemistry 1, and Biology 1 should be completed before the beginning of the junior year.

MINOR. A minimum of 11 credits in the following courses: Physiology 1, 4 cr; Pathology 5, 2 cr; either Agricultural Bacteriology 1 or 4, 5 cr. General chemistry is strongly advised as a prerequisite to physiology or bacteriology.

SPANISH AND PORTUGUESE

MAJOR. 27 credits in advance of 1b. The required courses are: 3 credits in Spanish 344 (teachers' course), 2 credits in phonetics, 4 credits in conversation and composition with a grade of B, and 6 credits in Spanish literature, of which at least 3 must be chosen from courses numbered above 100.

MINOR. 18 credits in advance of 1b. The required courses are: 2 credits in conversation and composition and 3 credits in literature. Minor students are advised (but not required) to elect Spanish 190, and also Spanish 344, if not majoring in another foreign language.

DEPARTMENTAL TEACHERS' COURSES. Spanish 344. Theory and Practice of Teaching Spanish. I, II; 3 credits. Miss Johnson.
Spanish 190. Spanish Phonetics. I; 2 credits. Mr. Solalinde.

PORTUGUESE. Special arrangements will be made for students interested in majoring or minoring in this language.

SPEECH

MAJOR. A minimum of 34 credits including Speech 396.

MINOR. A minimum of 15 credits in approved courses, including Speech 396.

DEPARTMENTAL TEACHERS' COURSES. Speech 396. Seminary in Teachers' Problems. I, II; 2–3 cr. Gives graduate credit. Miss Borchers.

ZOOLOGY

MAJOR. A minimum of 30 credits, including ordinarily Botany 1, Zoology 1, 9, 102, 104, 105, and, in the case of upper-group students, a thesis. Changes in this list of recommended courses are occasionally made in consultation with the adviser in the zoology department.

MINOR. A minimum of 15 credits from the following courses: Zoology 1, 2, 9, 102, 104, and 105. 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 minor in Zoology.

DEPARTMENTAL TEACHERS' COURSE. Biology 310. The Teaching of Biology. I, II; 3 cr. Miss Weber.

INDUSTRIAL EDUCATION AND APPLIED ARTS

There are two independent curricula leading to the degree of Bachelor of Science in either Industrial Education or Applied Arts. Each course has several objectives, adapted to the ability of the participant. On pages 184–187 will be found a complete list of courses offered in both industrial education and applied arts. Also see Department of Education, page 154, for complete listing of courses in vocational guidance and vocational education.

COURSE IN INDUSTRIAL EDUCATION

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, INDUSTRIAL EDUCATION COURSE

J. F. FRIESE, ASSISTANT PROFESSOR OF INDUSTRIAL EDUCATION, *in Charge*

PURPOSE AND PLAN. The Course in Industrial Education is planned for training in teaching and supervision of industrial arts in public and private schools. In the teacher-training course special emphasis is placed upon (1) industrial arts for general education purposes at the junior high school level, (2) upon the general shop in its various forms as a vehicle of training, (3) upon the exploratory concepts of industrial arts, and (4) upon the non-manipulative or related informational phases of industrial arts.

This curriculum is being progressively discontinued, commencing with 1929–30 and terminating in 1931–32; only students of at least junior standing will be admitted in 1930–31. (This change has no present bearing on the individual subjects offered by the Department of Industrial Education and Applied Arts during either the regular year or the summer session. Graduate subjects in the field of industrial arts are to be given increased emphasis as undergraduate offerings are reduced.)

REQUIREMENTS. The requirements for graduation are 124 credits and 124 grade-points, including 6 credits in mechanical or freehand drawing and from 47 to 62 additional credits in departmental courses in accordance with the options indicated below.

Either a continuous year course in history or two semesters of the same foreign language must be pursued, preferably in the freshman year. The mathematics requirement for this course ordinarily includes one semester each of algebra and trigonometry, but for students who enter the University with advanced standing in these two subjects, with a total of less than eight credits in mathematics, an additional course in advanced mathematics will be required.

FRESHMAN AND SOPHOMORE YEARS DISCONTINUED

JUNIOR YEAR

Educ. 75—Psychology and practice of teaching	5	Ind. Educ. 116—Vocational guidance and counseling techniques	2
Ind. Educ. 153, or 157	2	Departmental electives	8–10
Departmental electives	5–8	Free electives	6–4
Free elective	3–1		
	15–16		15–16

SENIOR YEAR

Ind. Educ. 363—Teaching industrial arts	3	Ind. Educ. 364—Admin. of secondary school industrial arts	2–3
Ind. Educ. 100—Thesis	2	Electives in education	3–4
Departmental electives	5–8	Ind. Educ. 100—Thesis	2
Free electives	5–2	Departmental electives	2–4
		Free electives	6–3
	15–16		13–16

COURSE IN APPLIED ARTS

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, APPLIED ARTS COURSE

W. H. VARNUM, ASSOCIATE PROFESSOR OF APPLIED ARTS, *in Charge*

PURPOSE AND PLAN. The studies included in the Course in Applied Arts are of three types: (1) those designed to familiarize the student with basic and advanced art practice, art appreciation, art curriculum building and teaching practice, leading to the development of teachers and supervisors of art (drawing, painting, design, and art-crafts) in public or private schools, normal schools, and colleges; (2) those courses intended to equip the student for commercial or professional art activities, and (3) art courses primarily for students who desire an appreciative knowledge of art practice through participating in its theory and practice.

REQUIREMENTS FOR TEACHING GROUP. A total of 124 credits and 124 grade-points is required for graduation from this course. Of this number, 47 to 62 credits (exclusive of 6 credits in Applied Arts 1, and Applied Arts 50–51) must be taken in departmental courses in accordance with the options indicated below. If history is chosen it must be in year courses; if foreign language is chosen it must be in a continuous course in one language throughout the four semesters. The sophomore English course elected in the first semester must be continued in the second semester. The science or mathematics elected in the first semester of the freshman year must be continued throughout the year.

REQUIREMENTS FOR PROFESSIONAL ART OR COMMERCIAL ART GROUPS. Students who desire to specialize in a division of professional art, such as figure drawing or landscape painting, illustrating, lithography, advertising, fashion drawing, etc., will meet the departmental and university requirements as presented for the freshman and sophomore years of the art teacher-training course.

In the junior year, Applied Arts 63, a course intended to aid in the selection of a major art occupation, is required of all students majoring in professional art. Preferably this selection is made by the end of the first semester, while in the second semester (a period of specialized training) the student, by electing departmental courses, in every way increases his professional efficiency in the selected pursuit. Neither Applied Arts 18 nor 57 is required of professional (non-teaching) students.

For students with sufficient preparation, Applied Arts 124, an on-and-off-campus coordination training, may be taken in the junior year by permission of the adviser. Ordinarily this course is elected in the first semester of the senior year.

Other required junior and senior courses are Applied Arts 100, the senior thesis, and for the first semester of the senior year, Applied Arts 91 (a substitute for Applied Arts 306) and 130, a pro-seminary of art in industry in the second semester. Departmental electives for the senior year should be based upon the student's major interest in professional art. A total of 124 credits is required for graduation.

Students who elect to prepare for professional art, commercial art, or appreciation by studio participation rather than for teaching positions, may substitute for the 13 required credits in education, an equal number in courses outside the Department of Industrial Education and Applied Arts, but related to the profession selected by the students; this substitution is subject to the approval of the departmental chairman. When added to Applied Arts 91, a two-credit course, these 13 credits complete the 15 credits offered as substitutes for an equal number required for the art teacher's certificate. However, it should be distinctly understood that with the approval of such substitution the student sacrifices the privilege of being certified and recommended for teaching by the University.

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
History or foreign language	3–4	History or foreign language	3–4
Mathematics, biology, or chemistry	4–5	Mathematics, biology, or chemistry	4–5
Departmental electives	5–4	Departmental electives	5–4
50. Freehand drawing and perspective 3 cr.		51. Freehand drawing; light and shade, 3 cr.	
54. Clay modeling, 2 cr.		54. Clay modeling, 2 cr.	
7a. Lettering, 2 cr.		7b. Lettering, 2 cr.	
Physical activity requirement	0	Physical activity requirement	0
	15–16		15–16

SOPHOMORE YEAR

English 30, 33, or 2	2–3	English 30, 33, or 2	2–3
History or foreign language	3	History or foreign language	3
Drawing 1—Mechanical drawing	3	App. Arts 18—Architectural drawing, or	3
Departmental electives	3–6	App. Arts 57—Mechanical perspective and architectural rendering	(3)
55. Advanced drawing and Anatomy, 2 or 3 cr.		Departmental electives	3–6
56. Elementary oil painting, 3 cr.		55. Advanced drawing, 2 or 3 cr.	
62. Elementary design, 3 cr.		56. Elementary oil painting, 3 cr.	
Free electives	4–1	62. Elementary design, 3 cr.	
Physical activity requirement	0	Free electives	4–1
	15–16	Physical activity requirement	0
			15–16

FOR TEACHERS OF ART

JUNIOR YEAR

Educ. 31—Principles of secondary education	3	Educ. 75—Psychology and practice of teaching	5
Departmental electives	7–10	Departmental electives	7–10
60. Block printing and etching, 2 cr.		63. Art in industry, 3 cr.	
63. Art in industry, 3 cr.		70. Art metal, 3 cr.	
70. Art metal, 3 cr.		71. Elementary pottery, 2 cr.	
71. Elementary pottery, 2 cr.		304. Primary applied and industrial arts, 2 cr.	
72. Design applied to industrial products, 3 cr.		140. Stage design, 2 cr.	
Free electives	6–3	Free electives	4–1
	16		16

SENIOR YEAR

App. Arts 306—Organization and administration of school art	3–4	Electives in Education	3–4
App. Arts 100—Thesis	2	App. Arts 100—Thesis	2
Departmental electives (307, 124, 132, 134)	5–8	Departmental electives (308, 124, 130, 131, 132)	5–7
Free electives	5–2	Free electives	6–3
	16		16

ELECTIVES

The following subjects may be included as departmental electives by students in the Courses in Applied Arts and in Industrial Education:

City Plan. 101—City planning and zoning	2	Physics 7—Photography	2
Econ. 6—Business letter writing	2	Home Econ. 8—House decoration	2
Econ. 13—Marketing methods	2	Home Econ. 18—House decoration lab.	2
Econ. 15—Principles of advertising	2	Home Econ. 20—Elem. costume design	2
Econ. 16—Advertising campaigns	2	Home Econ. 94—Adv. applied design	3
Hort. 6—Landscape gardening	3	Home Econ. 95—Weaving	1–2
Journ. 4—Typography	1		

The following are a few of the general electives recommended for the consideration of students in this course:

Art History—European art history	2–3	Anat. 120—Anatomy	6
Econ. 1a–b—General economics	8	Econ. 171—Employment management	3
Sociol. 1–2—Introductory sociology	6	Greek 122—Classical art	1–3
Econ. 122—Labor problems	3	Speech 1—Fundamentals of speech	3
Psych. 1—Introductory psychology	3	Speech 7—Public speaking	2
Psych. 115—Vocational aptitude tests	3		

PHYSICAL EDUCATION

Professional courses for teachers of physical education and for directors of play and recreation were organized at the beginning of the year 1911–12. The course as it was first instituted was adapted to the needs of both men and women in one curriculum, but as the scope of the field developed, incorporating more and more of the informal side of physical education, particularly games and athletics—the more natural forms of exercise—there has come more specialization within the field itself. Notwithstanding the fact that the formal side of physical education has not been overlooked, and that the former course made ample provision for the qualification of men and women to accept responsible positions as physical educators, the demand now in the educational field requires men to be especially fitted to coach, direct, and supervise all forms of games and athletics, as well as to teach the formal and corrective phases of physical education. With these distinctions in mind as to the requisites for men and women in this particular vocation, the faculty of the University has approved separate and distinct courses for men and women, as outlined below, both leading to the degree of Bachelor of Science in Physical Education.

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.

COURSE IN PHYSICAL EDUCATION AND ATHLETIC COACHING FOR MEN

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, PHYSICAL EDUCATION COURSE

G. S. LOWMAN, CHAIRMAN, PROFESSOR OF PHYSICAL EDUCATION

A total of 124 credits and 124 grade-points is required for graduation from this course. Students who present three high-school units in one foreign language, or a total of four units in two languages, are exempt from further study of foreign language. Students who present less than this amount of foreign language are required to secure eight credits in one language, and also to carry a year of sophomore composition. See entrance requirements, page 33.

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Foreign language, mathematics, or history	4–5	Foreign language, mathematics, or history	4–5
Chem. 1a—General chemistry	5	Chem. 1b—General chemistry	5
Phys. Ed. 6—Theory and practice	3	Phys. Ed. 7—Theory and practice	3
Physical activity requirement	0	Physical activity requirement	0
	15–16		15–16

SOPHOMORE YEAR

Zool. 1—Animal biology	5	Zool. 2—General zoology	5
Anat. 39—Human anatomy	4	Physiology 3—Animal physiology	4
Educ. 31—Principles of secondary education	3	Academic elective	2–3
Phys. Ed. 8—Theory and practice	3	Phys. Ed. 16—First aid to injured	1
Physical activity requirement	0	Phys. Ed. 9—Theory and practice	3
	15	Physical activity requirement	0
			15–16

JUNIOR YEAR

Phys. Ed. 58—Human mechanics	2	Phys. Ed. 107—Effects of physical activities on the body	3
Phys. Ed. 59—Nature, function, and organization of play	3	Phys. Ed. 5—Disease prevention	2
Educ. 75—Psychology and practice of teaching	5	Phys. Ed. 163—Therapeutic gymnastics	2
Phys. Ed. 114—Physiological chemistry	3	Electives in Education	3–4
Phys. Ed. 10—Theory and practice	3	Phys. Ed. 11—Theory and practice	3
	16	Academic elective	3–2
			15–16

SENIOR YEAR

Phys. Ed. 163—Therapeutic gymnastics	2	Phys. Ed. 168—Organization and administration	2
Phys. Ed. 118—Physical examination	3	Phys. Ed. 388—Teaching and adaptation	3–4
Phys. Ed. 100—Thesis	2	Phys. Ed. 164—School health problems	2
Phys. Ed. 12—Theory and practice	3	Phys. Ed. 100—Thesis	2
Academic electives	4–6	Phys. Ed. 13—Theory and practice	3
		Academic electives	4–3
	14–16		14–16

DEPARTMENTAL ELECTIVES

Phys. Ed. 80—Community recreation	2	Phys. Ed. 166—Physical therapy	3

COURSE IN PHYSICAL EDUCATION FOR WOMEN

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, PHYSICAL EDUCATION COURSE

BLANCHE M. TRILLING, CHAIRMAN, PROFESSOR OF PHYSICAL EDUCATION

No one will be accepted as a student in this course for less than three years of study, except by transfer from an accredited course in physical education. A student is on probation with the department for her first year. At the end of that time, or later, if she does not meet the departmental standard of scholarship, general aptitude, health, and ability, the department reserves the right to ask the student to withdraw from the department.

A total of 124 credits and 124 grade-points is required for graduation from this course. Students who present less than four high-school units of foreign language are required to earn 14 credits in one language, and those who present four or more units are required to earn 8 credits in one language. See entrance requirements, page 33.

GRADUATE WORK. In addition to the undergraduate curriculum outlined below, opportunity is offered for graduate work leading to an M.A. or an M.S. in Physical Education. For further information see Graduate Bulletin.

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Foreign language	4	Foreign language	4
Chem. 1a—General chemistry	5	Chem. 1b—General chemistry	5
History	3	History	3
Phys. Ed. 20—Practice in gymnastics and sports	0	Phys. Ed. 43—Elementary folk dancing	1
		Phys. Ed. 20—Practice in gymnastics and sports	0
	15		16

SOPHOMORE YEAR

Physics 65—General physics	3	Physics 65—General physics	3
Zool. 3—Elementary zoology	3	Phys. Ed. 120—Human anatomy	6
Foreign language or elective	3–5	Foreign language or elective	3–5
Phys. Ed. 42—Plays and games	2	Phys. Ed. 31—Principles of coaching	2
Phys. Ed. 49—Advanced folk dancing	1	Phys. Ed. 20—Practice in dancing, gymnastics, and sports	0
Elective	2		
Phys. Ed. 20—Practice in dancing, gymnastics, and sports	0		
	14–16		14–16

JUNIOR YEAR

Phys. Ed. 56—Kinesiology	3	Phys. Ed. 115—Physiology	5
Phys. Ed. 115—Physiology	5	Phys. Ed. 5—Disease prevention	2
Phys. Ed. 114—Physiological chemistry	3	Phys. Ed. 163—Therapeutic gymnastics	2
Phys. Ed. 32—Principles of coaching	2	Phys. Ed. 41—Selection and practice of activities	2
Phys. Ed. 163—Therapeutic gymnastics	2	Phys. Ed. 33—Principles of coaching	2
Phys. Ed. 20—Practice in dancing, gymnastics, and sports	0	Educ. 31—Principles of secondary educ.	3
		Phys. Ed. 20—Practice	0
	15		16

SENIOR YEAR

Phys. Ed. 388—Principles of teaching and adaptation	4	Phys. Ed. 118—Physical examination	3
Elective in Education	3	Phys. Ed. 168—Organization and administration	2
Phys. Ed. 100—Thesis	2	Education 75—Psychology and practice of teaching	5
Electives	5–7	Phys. Ed. 100—Thesis	2
Phys. Ed. 20—Practice in dancing, gymnastics, and sports	0	Electives	2–4
		Phys. Ed. 20—Practice	0
	14–16		14–16

Practice teaching included in Phys. Ed. 388 and Educ. 75.

CERTIFICATE IN PHYSICAL THERAPY

After the completion of the junior year, students who desire to be equipped for a certificate in physical therapy may arrange to secure the requisite training by taking Physical Education 166 and 263, in lieu of other electives, and by doing practical work in the Wisconsin General Hospital. This work will normally involve four months of specialized practice after graduation from the Physical Education Course. This plan has been approved by the American Physiotherapy Association and the American Medical Association, and the University certificate is accepted by them. Students receiving the certificate are accepted as physical therapy aides in schools and hospitals for the disabled.

MAJOR IN DANCING

The following is a suggested outline showing the possibility of completing this course in four years. In the case of speech and music, other courses than those mentioned may be substituted.

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Foreign language	4–3	Foreign language	4–3
Science	5	Science	5
History or mathematics	3–4	History or mathematics	3–4
Phys. Ed. 20—Practice in dancing, gymnastics, sports	0	Phys. Ed. 43—Elementary folk dancing	1
		Phys. Ed. 20—Practice in dancing, gymnastics, sports	0
	15		16

SOPHOMORE YEAR

Psych. 1—Introductory psychology	3	Philos. 11—Elementary logic	3
Physiology 1—Human physiology	4	Eng. 33b or 30b—Literature	2–3
Engl. 33a or 30a—Literature	2–3	Art History 54—Modern painting	3
Speech 7—Public speaking	2	Educ. 31—Principles of secondary educ.	3
Speech 6—Voice training	2	Speech 18—Oral interpretation of literature	2
Phys. Ed. 49—Advanced folk dancing	1	Phys. Ed. 31—Principles of coaching	2
Phys. Ed. 60—Rhythmic form and analysis	1	Phys. Ed. 33—Principles of coaching	0
Phys. Ed. 20—Practice	0	Phys. Ed. 20—Practice	0
	15–16		15–16

SUMMER SESSION

Physical Education 120 — Human Anatomy 6

JUNIOR YEAR

Philos. 21—Introduction to philosophy	3	Educ. 75—Psychology and practice of teaching	5
Engl. 54—Carlyle and Ruskin	3	Music 67—Pageantry†	2
Speech 16—Dramatic expression	2	Music 72—Music education	1–2
Music 72—Music education	1–2	Phys. Ed. 160—Adv. rhythmic form and analysis	2
Phys. Ed. 56—Kinesiology	3	Phys. Ed. 163—Therapeutic gymnastics	2
Phys. Ed. 163—Therapeutic gymnastics	2	Phys. Ed. 41—Selection and practice of activities	2
Phys. Ed. 20—Practice	0	Phys. Ed. 20—Practice	0
	14		14–15

† Offered only in alternate years; Speech 19 should be substituted.

SENIOR YEAR

Elective in department of education	3	Philos. 25—Relation of man to nature	3
Music 31—History of music	2	Art Hist. 114—Romanesque and Gothic sculpture	3
Phys. Ed. 388—Teaching and adaptation	4	Music 31—History	2
Phys. Ed. 146—Theory of the dance	3	Speech 19—Dramatic production	2
Phys. Ed. 100—Thesis	2	Phys. Ed. 165—Dance composition	2
Phys. Ed. 20—Practice	0	Phys. Ed. 100—Thesis	2
		Phys. Ed. 20—Practice	0
		Elective	2
	14		16

Electives are golf, horseback riding, bowling, indoor and outdoor baseball, basketball, hockey, and gymnastics.

MINORS IN PHYSICAL EDUCATION

The minor in physical education enables students to specialize in the subject even though they do not adopt it as a major. Provision is thus made for students to qualify themselves to teach physical education in connection with academic subjects in the high schools. Courses marked with a star (*) cannot be counted toward graduation by students in the College of Letters and Science who are not registered in one of the regular four-year curricula in physical education.

Any *one* of the minors enumerated below may be elected by candidates for the University Teachers' Certificate under the following provisions: (1) to receive credit for starred courses in physical education included in any given minor the entire minor must be completed; (2) the total number of credits required for graduation with the certificate is, for students taking a minor in physical education, 128, of which not more than 12 may be in physical education; (3) this total may be attained either by work done during an additional period of residence, or by carrying 17 credits each semester, provided, however, that such a program must include at least one starred course in physical education; (4) practical work, which is required but which gives no academic credit, will be arranged at the discretion of the department according to the student's needs.

FOR MEN

1. ATHLETIC COACHING; 12 credits. This minor is offered to qualify men to meet the demands of high schools and colleges for men to coach and supervise athletics in connection with the teaching of some academic subject. Practical work which is required, but given no academic credit, is to be arranged at the discretion of the department according to the student's needs.

	Credits
Phys. Ed. *388—Teaching and adaptation	3
Phys. Ed. *17—Athletic training and first aid	2
Phys. Ed. *168—Organization and administration of physical education and athletics	2
Phys. Ed. *29—Technique of football	1
Phys. Ed. *23—Technique of basketball	1
Phys. Ed. *24—Technique of track	1
Phys. Ed. *21—Technique of gymnastics	1
Choice of two other special techniques	2

(The technique courses above are offered under their regular numbers during the summer session; during the regular academic year they are offered under the theory and practice courses, Physical Education 6–13, inclusive.)

2. GYMNASTICS OR FORMAL PHYSICAL EDUCATION; 12 credits. This minor is intended to meet the needs of those students who wish to combine the teaching of physical education with their major subject. Practical work which is required, but given no academic credit, is to be arranged at the discretion of the department according to the student's needs.

	Credits
Phys. Ed. *388—Teaching and adaptation	3
Phys. Ed. *58—Human mechanics (including essentials of kinesiology, physiology of exercise, and physiology)	2
Phys. Ed. *61—Physical education in elementary and secondary schools	2
Phys. Ed. *71—Scouting and other adolescent organizations	2
Phys. Ed. *22—Technique of plays and games	1
Phys. Ed. *21—Teaching of gymnastics	1
Choice of two other special techniques	2

FOR MEN AND WOMEN

3. COMMUNITY RECREATION; 12 credits. This minor is offered to meet the demand for play and recreational leaders especially equipped for the organization, administration, and supervision of play and recreational activities in various communities and industrial concerns. The department will advise with the student in the choice of techniques, according to the field of work the student purposes entering.

	Credits
Phys. Ed. 16—First aid to the injured	1
Phys. Ed. 59—Nature, function, and organization of play	3
Phys. Ed. 80—Community recreation	2
Phys. Ed. *71—Scouting and other adolescent organizations	2
or	
Phys. Ed. *81—Camp leadership	(2)
Phys. Ed. *22 or *42—Technique of plays and games	1–2
Choice of three other special techniques	3–2

The following additional courses are suggested for those electing the Recreation Minor:

Sociol. 1, 2—Introductory sociology	6
Sociol. 140—General sociology	3
Sociology 46—Social anthropology	3
Econ. 1a, 1b—General economics	8
App. Arts *304—Elementary school art and industrial arts	2–3
Music 67—Community festival and pageant movements	2
Music 78—Community music	2
Home Economics	

FOR WOMEN

4. PHYSICAL EDUCATION—GYMNASTICS; 12 credits. This minor is intended to meet the needs of those students who wish to combine the teaching of physical education with their major subject in secondary and elementary schools.

	Credits
Phys. Ed. *56—Kinesiology (Anatomy 120 a prerequisite)	3
Phys. Ed. *388—Teaching and adaptation (including practice teaching)	4
Phys. Ed. *41—Selection and practice of activities for elementary and secondary schools	2
Physiology 1—Elements of physiology	(3)

The three additional credits in physical education may be elected from the following group of courses:

	Credits
Phys. Ed. 16—First aid to the injured	1
Phys. Ed. *81—Camp leadership	2
Phys. Ed. *31, *32, *33, *42, *43, *49—Special techniques	1–2 each

SCHOOL OF JOURNALISM

WILLARD G. BLEYER, DIRECTOR, PROFESSOR OF JOURNALISM

PURPOSE AND PLAN. The studies included in the School of 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 in 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, copy reading, headline writing, make-up, the writing of special articles, editorial writing, critical writing, women's departments in newspapers and magazines, the community newspaper, newspaper administration, the history and principles of journalism, the reporting of public affairs, and advertising. Courses are also offered in the methods of retail advertising, national advertising campaigns, business letter writing and marketing methods. Representative French, Spanish, and German newspapers are studied in special courses for journalism students, given by the Departments of French, Spanish, and German. Courses in cartooning and in drawing for illustration are offered by the Department of Industrial Education and Applied Arts.

Special lectures on various phases of journalistic work are given by newspaper men in active service. Additional information is available in a special bulletin of the School of Journalism, which may be had on application to the University Editor.

ADVERTISING. Students may obtain special training in preparation for advertising positions by combining courses in journalism with those in advertising. The normal arrangement of these courses is indicated in the Journalism Advertising Group.

TECHNICAL AND TRADE JOURNALISM. Although the curriculum in this school has been arranged primarily for students preparing for newspaper and magazine work, provision has also been made for those interested in technical and trade journalism. The courses in newspaper and magazine work may be elected by students in the professional schools and courses. Subject to the provisions governing the election of studies in other colleges (see page 54), students in the School of Journalism may elect courses in the College of Engineering, the Law School, and the College of Agriculture. By combining studies in commerce, agriculture, engineering, and other technical subjects with those outlined in the School of Journalism, students can obtain the necessary preparation for practically all lines of technical and trade journalism.

LABORATORY EQUIPMENT. A newspaper office with typewriters, copy desk, files, indexes, and reference books is maintained as a laboratory for the students of journalism. The full leased wire service of one of the national press associations is received by printer telegraph. Index and filing cases show methods of preserving photographs, illustrations, clippings,

and biographical and statistical material. In the specially equipped typographical laboratory, 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 preparing for journalism are given practical training on the two Madison daily newspapers, the editors of which cooperate with the instructors of journalism for this purpose. The editors of a number of Wisconsin weekly papers cooperate in giving students in the course in the Community Newspaper practical experience for a week during the spring recess. Places on the editorial and 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 a printing plant of its own, is edited by a staff organized from the students interested in journalism, who thus get practice in all the details of newspaper making. The *Octopus*, a humorous periodical, and the *Badger*, the university annual, edited and published by the members of the junior class, give opportunity for a variety of experience in journalism. *The Wisconsin Engineer*, a monthly edited and published by the students of the College of Engineering, and the *Wisconsin Country Magazine*, a monthly edited and managed by the agricultural students, furnish practice for those interested in technical and trade journalism.

ADMISSION REQUIREMENTS. For admission to this School, students must be eligible for junior standing in the College of Letters and Science as a result of having completed satisfactorily the first two years of the general course leading to the degree of Bachelor of Arts. A minimum of 58 credits is necessary for junior standing, but students are advised to present at least 60 credits for admission to the School of Journalism if they expect to complete in two years of residence the 124 credits required for graduation from the School of Journalism. Credits that are lacking may be secured by attendance at the summer session or by correspondence study, during the period between the junior and senior years.

Students entering the University as freshmen or sophomores should undertake to complete not only the studies required in the first two years of all candidates for the degree of Bachelor of Arts in the general course, but also such other studies as are prerequisite for advanced courses in the curriculum of the School of Journalism. The required courses for the freshman and sophomore years are as follows:

	Credits
Freshman English	6
Two years of foreign language; French, German, or Spanish	14
Ancient, medieval, English, or modern history	6
One year of a laboratory science	10
General survey of English literature	6
General economics	8
Introduction to government and politics	3
Introductory psychology	3
General survey of journalism (for Univ. of Wisconsin freshmen only)	2
Newspaper reporting and correspondence (may be taken in junior year)	6

Students who have completed two or more years in another institution (college, university, or normal school), must be eligible for junior standing in the general course of the College of Letters and Science leading to the degree of Bachelor of Arts, in order to be admitted to the School of Journalism. If they desire to complete the requirements for graduation from the School of Journalism in two years, they should present the same or equivalent credits for admission to the School that students do who have attended the University for the first two years of their college work. Credits in journalism are not essential for admission. Students from other institutions should send a certified copy of their preparatory school and academic records to the chairman of the Committee on Advanced Standing, Bascom Hall, before coming to the University.

REQUIREMENTS FOR GRADUATION. For graduation from the School of Journalism, 124 credits are required, in which are included those secured in the first two years of college work and those obtained in the junior and senior years in the School of Journalism. Of this total, 30 credits must be taken in required and elective courses in journalism, inclusive of principles of advertising (Econ. 15) and advertising campaigns (Econ. 16), but not of the freshman survey of journalism (Journ. 1) or of marketing methods (Econ. 13). Advertising campaigns (Econ. 16) may be included in the required 30 credits in journalism only by students in the journalism-advertising group.

The total number of grade-points secured in courses other than journalism and advertising must equal the total number of credits in those courses. The total number of grade-points in courses in journalism and advertising must be fifty per cent greater than the number of credits in those courses. Students who fail to secure even grade-points with credits in the first two years of college work will not be admitted to the School of Journalism. Those students in the School of Journalism who fail to maintain the grade-point requirements will be advised to withdraw from the School.

Students are required to have 32 credits in one or more foreign languages for graduation from the School of Journalism, part of which may be taken in preparatory schools; each year of foreign language satisfactorily completed in a high school or academy is counted as four credits up to a maximum of 24 toward the required 32 credits. It is advisable for students to complete as much of the foreign-language requirement as possible before entering the School of Journalism. A reading knowledge of at least one modern foreign language, French, German, or Spanish, is desirable before graduation from the School of Journalism.

Upper-group seniors in the School of Journalism (those who have obtained fifty per cent more grade-points than credits in all their courses at the beginning of the senior year) are required to write a thesis (4 credits) presenting the results of a year's research in either contemporary or historical phases of newspapers, magazines, or advertising. These theses are bound and filed in the University Library. Lower-group seniors (those who have less than fifty per cent more grade-points than credits at the beginning of the senior year) will take four credits in elective courses in journalism, in place of the thesis.

The degree of Bachelor of Arts in Journalism is granted to students who complete satisfactorily the requirements for graduation from the School of Journalism.

The other required courses for graduation from the School of Journalism and the number of credits to be secured in each are as follows:

I. REQUIRED COURSES IN JOURNALISM AND ADVERTISING

Course No.	Title of Courses	Yr. and Sem.	OPTIONAL GROUPS				
			Daily Newspaper	Community Newspaper	Journalism-Advertising	Journalism-Magazine	Teachers
2	Newspaper reporting	2	6 cr.	6 cr.	6 cr.	6 cr.	6 cr.
3	Copy reading	3	6	6	6	6	6
7	Community newspaper	3–I		2			
8	Newspaper administration	3–II		2			
13	Marketing methods	3–I			(3)		
15	Principles of advertising	3–I	2	2	2	2	2
16	Advertising campaigns	3–II			2		
100	Thesis (or substitute)	4	4	4	4	4	4
104	Editorial writing	4–I	2	2	2	2	2
105	Writing of special articles	3–I	2	2	2	2	2
106	Critical writing	4–II				2	
107	Magazine writing	3–II				2	
109	Law of the press	4–II	1	1	1	1	1
110	History of journalism	4–I	3	3	3	3	3
111	Principles of journalism	4–II	3	3	3	3	3
112	Reporting of public affairs	3–II	2**				
123	Women's departments	3–II	2*		2*	2*	
370	Teaching of journalism	4–I					3
	Total credits		31 cr.	33 cr.	31–33 cr.	33–35 cr.	32 cr.

*required of women students only **required of men students only

II. REQUIRED COURSES IN THE SOCIAL SCIENCES

At least fifteen credits from not less than three of the five following groups:

1. History; 4 to 6 credits in courses numbered over 100, preferably Recent history of the United States (Hist. 124).
2. Economics; 3 to 6 credits in courses numbered above 100, preferably chosen from the following: Evolution of industry (Econ. 119), Capitalism and socialism (Econ. 144), Labor problems (Econ. 122), American labor history (Econ. 145).
3. Political Science; 3 to 6 credits in courses numbered over 100, preferably chosen from the following: Political parties and party problems (Pol. Sc. 122), History of American political ideas (Pol. Sc. 165), Survey of world politics (Pol. Sc. 125), International organization and the League of Nations (Pol. Sc. 137), Practical problems of municipal government (Pol. Sc. 114), Municipal administration (Pol. Sc. 135).
4. Sociology; 3 to 6 credits, preferably chosen from the following: Introductory sociology (Sociol. 1, 2), Social psychology (Sociol. 139), Individual and social adjustment (Sociol. 197), Social anthropology (Sociol. 46).
5. Psychology and Philosophy; 3 to 6 credits, preferably chosen from the following: Psychology of social institutions (Psych. 124), Applied psychology (Psych. 50), Abnormal psychology (Psych. 107), Psychology of thinking (Psych. 111), Logic (Phil. 11), Introduction to philosophy (Phil. 21), Man and nature (Phil. 25), Ethics (Phil. 41), Business ethics (Phil. 43).

RECOMMENDED PRE-JOURNALISM SEQUENCE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Journ. 1—General survey	1	Journ. 1—General survey	1
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Foreign language (one or two)	3–8	Foreign language (one or two)	3–8
History 1, 5, or 10	3	History 1, 5, or 10	3
Science	5	Science	5
Physical activity requirement	0	Physical activity requirement	0
	15–16		15–16

SOPHOMORE YEAR

Journ. 2—Newspaper reporting	3	Journ. 2—Newspaper reporting	3
Engl. 30a—Survey of English literature	3	Engl. 30b—Survey of English literature	3
Foreign language, or	2–3	Foreign language, or	2–3
Hist. 2—Modern European history	(3)	Hist. 2—Modern European history	(3)
Pol. Sci. 1—Introduction to government and politics	3	Psych. 1—Introductory psychology	3
Econ. 1a—General economics	4	Econ. 1b—General economics	4
Physical activity requirement	0	Physical activity requirement	0
	15–16		15–16

COURSE IN JOURNALISM

LEADING TO THE DEGREE OF BACHELOR OF ARTS IN JOURNALISM

DAILY NEWSPAPER GROUP

JUNIOR YEAR

	Credits		Credits
Journ. 3—Copy reading	3	Journ. 3—Copy reading	3
Journ. 105—Writing of special articles	2	Journ. 112 or 123	2
Econ. 15—Principles of advertising	2	Social science options	6–8
Social science options	3–6	Free electives	5–3
Free electives	6–3		
	16		16

SENIOR YEAR

Journ. 104—Editorial writing	2	Journ. 111—Principles of journalism	
Journ. 110—History of journalism	3	Journ. 109—Law of the press	1
Thesis or substitute	2	Thesis or substitute	2
Social science options	3–6	Social science options	3–7
Free electives	6–3	Free electives	7–3
	16		16

COMMUNITY NEWSPAPER GROUP

JUNIOR YEAR

Journ. 3—Copy reading	3	Journ. 3—Copy reading	3
Journ. 105—Writing of special articles	2	Journ. 8—Newspaper administration	2
Journ. 7—Community newspaper	2	Social science options	6–8
Econ. 15—Principles of advertising	2	Free electives	5–3
Social science option	3		
Econ. 25—Rural life	(3)		
Free electives	4		
	16		16

SENIOR YEAR

Journ. 104—Editorial writing	2	Journ. 111—Principles of journalism	3
Journ. 110—History of journalism	3	Journ. 109—Law of the press	1
Thesis or substitute	2	Social science options, or	6–8
Social science options	3–6	Econ. 127 or 193	(2)
Free electives	6–3	Free electives	4–2
	16		16

JOURNALISM—ADVERTISING GROUP

JUNIOR YEAR

Journ. 3—Copy reading	3	Journ. 3—Copy reading	3
Journ. 105—Writing of special articles	2	Journ. 123—(required of women)	(2)
Econ. 13—Marketing methods	3	Econ. 16—Advertising campaigns	2
Econ. 15—Principles of advertising	2	Social science options	3–8
Social science option	3	Free electives	6–3
Free electives	3		
	16		16

SENIOR YEAR

Journ. 104—Editorial writing	2	Journ. 111—Principles of journalism	3
Journ. 110—History of journalism	3	Journ. 109—Law of the press	1
Thesis or substitute	2	Thesis or substitute	2
Social science options	3–6	Social science options	6–8
Free electives	6–3	Free electives	4–2
	16		16

JOURNALISM—MAGAZINE GROUP

JUNIOR YEAR

Journ. 3—Copy reading	3	Journ. 3—Copy reading	3
Journ. 105—Writing of special articles	2	Journ. 107—Magazine writing	2
Econ. 15—Principles of advertising	2	Journ. 123—(required of women)	(2)
Social science options	3-6	Social science options	5-8
Free electives	6-3	Free electives	4-3
	16		16

SENIOR YEAR

Journ. 104—Editorial writing	2	Journ. 111—Principles of journalism	3
Journ. 110—History of journalism	3	Journ. 106—Critical writing	2
Thesis or substitute	2	Journ. 109—Law of the press	1
Social science options	3-6	Thesis or substitute	2
Free electives	6-3	Social science options	4-6
		Free electives	4-2
	16		16

GROUP FOR TEACHERS

JUNIOR YEAR

Journ. 3—Copy reading	3	Journ. 3—Copy reading	3
Journ. 105—Writing of special articles	2	Elective in Education	3-2
Econ. 15—Principles of advertising	2	Social science options	6-9
Educ. 31—Principles of education	3	Free elective	4-2
Social science options	3		
Free elective	3		
	16		16

SENIOR YEAR

Journ. 104—Editorial writing	2	Journ. 111—Principles of journalism	3
Journ. 110—History of journalism	3	Journ. 109—Law of the press	1
Thesis or substitute	2	Thesis or substitute	2
Journ. 370—Teaching of journalism	3	Engl. 340—Teaching of English	3
Elective in Education	2-3	Educ. 75—Psychology and practice of teaching	5
Social science options	3-4	Social science option	2
	16		16

LIBRARY SCHOOL

CLARENCE BROWN LESTER, M.A., *Lecturer in Library Science, Director*
MARY EMOGENE HAZELTINE, B.S., *Associate Professor of Bibliography, Principal*
MARY KATHARINE REELY, B.A., *Assistant Professor of Bibliography*
AGNES KING, M.A., *Assistant Professor of Library Science*
MRS. WINIFRED LEMON DAVIS, M.A., *Assistant Professor of Library Science*
ALMA MATILDA RUNGE, B.A., *Instructor in Library Science*
AGNES OLENE HANSON, B.A., *Reviser and Assistant*
ELLEN BERNICE GIBSON, B.A., *Reviser and Assistant*
LUCY M. CURTISS, *Assistant*

The Library School is a professional school offering a one-year course of training in library work to both men and women. This training may be taken either as an independent course by all who meet the entrance requirements, or as a joint course by seniors in the College of Letters and Science who qualify for entrance. In cooperation with the School of Education the Library School offers a special course for teachers. For detailed statement of this course, see page 90.

The School is located on the second floor of the Madison Free Library building. These quarters, especially designed for the School, include complete equipment provided by the Free Library Commission, which administers the School jointly with the University, and provide every facility for professional work. The School avails itself of all the library privileges of Madison.

For a complete catalog giving full description of the course of study, address the Principal, Miss Mary Emogene Hazeltine, Library School, 206 North Carroll Street, Madison, Wisconsin.

REQUIREMENTS FOR ADMISSION

1. Each candidate must fill out an application blank, a copy of which may be obtained by addressing the Principal, to whom it should be promptly returned.

2. Applicants must be at least twenty years of age. Persons over thirty-five who have no professional experience are advised against undertaking the course.

3. Graduates of accredited colleges whose undergraduate records are acceptable, are admitted upon the basis of such records, but must meet the other requirements for admission as set forth below. The applications of college graduates should, if possible, be filed not later than the first Friday in June of every year, and as much earlier as possible to allow time to arrange for the prerequisites, and to be sure of a place in the class, as the number of students that can be accepted is limited.

4. Students electing the joint course with the College of Letters and Science are admitted at the end of their junior year without written examination if they have upper-group status. The joint course is more fully discussed below.

5. All applicants not holding a degree from an approved college are required to take the entrance examinations, which are held on the first Friday in June of every year. Candidates for the examination must have

completed sufficient work to classify them as sophomores in an accredited college, while three years of college work or its equivalent are most desirable, and are urged upon all. Applicants taking the entrance examinations should understand that the examinations are designed to test their education, reading, and general information. Sight translation from one foreign language is also included, the candidate having the choice of French or German.

6. A personal interview with prospective candidates is desirable whenever possible. Besides the background of education, so much depends upon the spirit in which library work is undertaken and the personal fitness for it, that much attention is given to the selection of students. Candidates are tested not only by college records or entrance examinations, but also by correspondence, by the testimony of their references, and by the personal interview.

The class entering in September of every year is made up not later than the first of July and includes the college graduates whose applications have already been accepted and the candidates who have passed the entrance examinations. Students are admitted only at the beginning of the first semester.

As the quarters of the School are limited, the number of students admitted for any one year can not exceed its desk room. If there are more candidates than can be accommodated, entrance is made competitive and those who pass the examination with the highest percentage are first accepted, together with college graduates. The others are placed on a waiting list, from which is filled any vacancy created by the withdrawal during the summer of an accepted student.

PREREQUISITES FOR ALL APPLICANTS

Accepted candidates must meet several special entrance requirements *before the School opens in September*. All who have not had experience in library work must spend at least one month in actual work in a designated library before joining the class. The library and the conditions under which the work is to be performed must be satisfactory to the Principal and, if desired, arrangements for such work will be made by her.

Candidates must be skillful with the typewriter before entering, as the School requires its use in the preparation of many of the lessons, and no instruction is given in the School. Detailed information concerning this requirement is sent with the application blank. It is also required that the standard "library handwriting" be mastered. Accompanying the application blank is a required list of books to be read in preparation for the first appointment of the school year in book selection.

SUGGESTED PRELIMINARY PREPARATION

Undergraduates in college who are planning to enter the 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 others in literary appreciation and criticism. Courses dealing with such literary types as the novel, the drama, and the short story, not only in English but in foreign languages, should be included, also work in composition or rhetoric.

Modern languages. French and German are most needed in library work. It is advisable to begin the language preparation in high school and to continue the study for at least two years in college.

History. Ancient, medieval, and modern European; history of England and of the United States.
Social sciences. Economics, political science, and sociology.
Psychology, philosophy, and education.
Science, one or more of the following: biology, botany, zoology, geography, geology, physics, chemistry.
Speech.

General business knowledge is of great value to the prospective librarian and is a prerequisite to success in administrative library positions. Candidates who have not had business experience are urged to become familiar with business methods, including the handling of a bank account, the management of a personal budget, a knowledge of the elementary principles of bookkeeping, and a general understanding of ordinary business transactions.

COURSE OF STUDY

The course of instruction extends throughout the university year, September to June. The work covers the following subjects, which are required of all:

First Semester	Credits	Second Semester	Credits
Cataloging	5	Reference	2
Classification	3	Public documents	1
Reference	2	Subject bibliography	3
Evaluation and selection of books	2	Evaluation and selection of books	2
Trade bibliography and bookbuying	1	Children's work	1
Loan administration	1	Library administration	2
Library economy	1	Professional work	1
		Field practice	3
	15		15

The field practice is one of the distinctive features of the School. During February and March of every year the academic schedule is suspended and the students assigned for actual work in the libraries of the state, under the supervision of the librarians and the members of the faculty of the School.

This actual work seeks to cover not only the various phases of library technique and library administration, but also the larger service to the public through extension methods, library publicity, book selection, coöperation of libraries with schools, and story telling.

EXPENSES

The tuition fee for residents of Wisconsin is $50 for the course, $25 being payable at the opening of each semester. For non-residents, the fee is $100 for the course, $50 to be paid at the opening of each semester. An infirmary fee of $3.50 per semester is required of each student. These fees are *payable at the Library School.* In the case of joint-course students, adjustment of payment to avoid double tuition is made at the Library School upon presentation of University receipts. The cost of textbooks and supplies for each student will average $40 for the year. A graduation fee of $10 is charged.

Upon notification that they have been accepted as students of the School, applicants are required to pay a registration fee of $5, which will be applied on the tuition of the first semester. In case of the withdrawal of the applicant before the opening of the School, the registration fee will be retained to cover the expenses of correspondence, etc.

The Library Commission pays the railroad fare of students to and from the required field practice.

JOINT COURSE WITH THE COLLEGE OF LETTERS AND SCIENCE

A joint course has been arranged between the Library School and the College of Letters and Science for those who are not able to afford the time for four years of college work followed by a year of technical training. The joint course is made possible by a rule of the College of Letters and Science which provides that candidates for the Bachelor of Arts degree are allowed under specified circumstances to elect studies in other of the university colleges and schools to an amount not exceeding 20 credits.

A regular joint-course student, in order to receive a B.A. degree and the Library School diploma, must earn 130 credits, to be distributed usually as follows: 96 credits by the end of the junior year, and 4 thesis and 30 Library School credits during the senior year. If the student does not prepare a thesis, the 4 credits must be secured in the summer session. Except for the thesis, joint-course students must devote the entire time of the senior year to work of the Library School.

By properly arranging his elective studies and by carrying 16 credits per semester for the first three years, a student can ordinarily secure both the Bachelor of Arts degree and the Library School diploma at the end of four years. If the student does not carry 16 credits per semester for the full three years, the deficiency may be made up by work in the summer session.

If students elect the work of the Library School before they have secured senior rank they are not exempt from the entrance examinations of the School. Furthermore, it should be understood that the work of the School is accepted for only ten college credits if completed before the beginning of the junior year, and that 20 college credits are allowed for it only if it is completed after the beginning of the junior year (the 20-credit rule quoted above requires junior standing before its privileges may be enjoyed).

Students in other institutions wishing to enter the joint course with advanced standing must bear in mind that the College of Letters and Science requires 40 credits in resident study; attendance at the Library School may not be counted toward fulfilling this requirement. Transfers from other colleges with intent to take the joint course are best accomplished at the beginning of the sophomore year. Arrangements for entering on advanced standing should be made through the Chairman of the Committee on Advanced Standing, University of Wisconsin, and the Principal of the Library School.

SCHOOL OF MUSIC

C. H. MILLS, DIRECTOR, PROFESSOR OF MUSIC

The School of Music offers a four-year course leading to the degree of Bachelor of Music; this course provides training in the fields of applied music, history and theory of music, and 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, but they must be able to satisfy the usual entrance requirements as stated below.

Students enrolled in other schools and colleges of the University are allowed to take courses in the School of Music, subject to the approval of their adviser and the Director of the School of Music, under the following special regulations. Credits, not to exceed twenty, may be selected by sophomores, juniors, and seniors in theoretical music courses. A maximum of ten credits in applied music may be taken by juniors and seniors. The maximum number of credits in theoretical and applied music may not exceed twenty. Any student may take courses in applied music without credit provided he satisfies the entrance requirements. In the case of organ, piano, and violin, students will be expected to satisfy the entrance requirements for majors in these subjects, whether or not the subjects are taken for credit.

ENTRANCE REQUIREMENTS

The general requirements, other than those for admission to the University, include (1) sufficient natural musical ability, as determined by a series of tests, (2) the ability to sing at sight songs of the difficulty of the average hymn tune, and (3) knowledge of such fundamental facts of musical theory as key signatures, major and minor scales, note values, etc. A sub-freshman course, without credit, is offered for those unable to meet these requirements.

The special requirements for majors in applied music are:

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, whether enrolled for credit or not, 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. Knowledge of the formation, signatures, and fingering of major and minor scales is necessary; also the ability to read at sight hymn tunes and simple accompaniments.

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 1, and the easier pieces of Dancla, Alard, and others.

GRADUATE WORK

The degree of Master of Arts in Music Education is awarded on the basis of a suitable thesis and courses. Candidates for this degree are required to take a minimum of 9 credits in music and 9 credits in education in addition to the thesis. Candidates must satisfy all requirements for the Bachelor of Arts degree, including 32 credits in foreign language and 75 out of 120 credits in academic subjects. It is also possible to earn a regular Master of Arts degree with the major portion of work being taken in musical fields; for definite information regarding the nature of the required work inquiry should be made of the Director of the School of Music.

FEES AND TUITION

Regularly enrolled students in the School of Music (i.e., those working toward a degree) and special students taking theory courses are required to pay the regular university fees (see page 15). Persons taking courses in applied music, either regularly enrolled students or special students in applied music only, are required to pay the tuition fees charged for such instruction, as noted below. Students taking only private instruction in applied music are not required to pay the general fee or the non-resident tuition fee.

Students enrolling at any time previous to the fifteenth day of any semester will be charged the full fee for the semester. Students enrolling thereafter may receive some reduction at the discretion of the director. All fees must be paid at the beginning of each semester; until this has been done, the student will not be entitled to receive instruction.

Applied music fees are refunded in full if no lesson has been taken and if the name of the student does not appear on the schedule of the instructor. If any lesson has been taken, only one-half the fee is refunded. No refund is made after mid-semester except in cases of protracted illness when the instructor makes such recommendation to the Director. Practice-room fees are refunded on the basis of time expired until mid-semester after which no refund is made. Recital fees are not refunded unless a student leaves school within the first two weeks of the semester. Students who complete satisfactorily a semester of work in the University Orchestra are entitled to a refund of one-half their applied music fee upon the recommendation of the Director.

Tuition in applied music, per semester:

One-half hour of instruction once a week	$25
One-half hour of instruction twice a week	45
Class piano or voice for public school music	45
One hour of instruction once a week	45
One hour of instruction twice a week	90
Piano technic	4

Rent of practice rooms, per semester:

Organ, one hour daily	$9
Piano, one hour daily	4

ORGANIZATIONS

THE UNIVERSITY ORCHESTRA, composed of about sixty-five players, is organized to study the larger classical forms and to present them in public. Rehearsals are held twice a week in Music Hall during the school year. Membership is open to the entire student body, and to others who may qualify. After two semesters' enrollment in the orchestra, a university student may receive one credit for each of the two following semesters. This work is listed as Music 76. Mr. Morphy, Director.

THE UNIVERSITY BANDS consist normally of about two hundred men, divided among three organizations known as the Concert Band, the Second Band, and the ROTC Band. The first is mainly a concert organization, the second forms a training school for the less experienced students, and the latter is a unit of the Military Department. These organizations rehearse three times each week. Underclassmen playing in the band are considered as fulfilling the physical activity requirement. Upperclassmen who are members of the concert band and who remain for duty at Commencement are compensated for their services to the extent of thirty dollars. Students who desire to join should confer with the Director of the Bands. Mr. Morphy, Director.

THE UNIVERSITY SINGERS, a mixed chorus, is organized for the study and performance of numbers for "a cappella" singing and the larger choral forms, such as cantata, oratorio, and opera. Membership is open to any student in the University, both undergraduate and graduate, who has had some previous experience in chorus or choir work and who can successfully pass the voice test requirements. Rehearsals are held twice weekly. Mr. Swinney, Director.

THE MEN'S GLEE CLUB is a campus organization incorporated under the laws of the State of Wisconsin. Two separate divisions are maintained; the Concert Club, the membership of which is selected by competitive tryouts, and the Corporation, to which members of the Concert Club may be elected after one year's service. Vacancies in the club are filled by competitive trial, and membership is open to the entire student body, including graduate students. The club makes extensive concert tours and won the championship of the Middle West in 1923, 1925, and 1926. The Club toured Europe in the summer of 1927. Mr. Swinney, Director.

THE WOMEN'S GLEE CLUB is an organization of thirty-two women which makes frequent public appearances locally. Vacancies are filled by competitive trial, and membership is open to the entire student body, including graduate students. Mrs. Caster, Director.

EQUIPMENT

The School of Music is housed in Music Hall and a large annex, which are provided with a concert auditorium, class rooms, teaching studios for applied music, practice rooms, a four-manual organ, a two-manual organ, six two-manual reed practice organs, pianos, orchestral and band instruments, and an assortment of mechanical instruments.

CONCERTS AND RECITALS

Lecture-recitals and concerts, open to the public without charge, are given by members of the Faculty of the School of Music at stated intervals during the concert season.

Student recitals, free to all students of the University and open to all others by invitation, are held at frequent intervals throughout the school year.

Public performances being part of the course of study in a practical subject, all students are required to participate in a program when they are, in the instructor's opinion, sufficiently prepared.

The artist recital series consists of an annual course of recitals of chamber music. Students enrolled in the School of Music are required to attend the concerts for which a fee of one dollar a year is charged, payable at the time of registration. The Flonzaley String Quartet and the London String Quartet have appeared under the auspices of the School.

REQUIREMENTS FOR TEACHERS

The following credits are required for the University Teachers' Certificate:

	Credits
Educ. 75—Psychology and practice of teaching	5
Educ. 31—Principles of education	3
Music 45—Introductory methods in public school music	4
Departmental teachers' course	3

GENERAL

All students must present their registration cards from the Registrar's office before beginning assigned work in the School of Music. All students in applied music will be examined by the Examining Committee of the School of Music to learn the status of their work and, in the case of juniors and seniors, to determine whether or not the subject can be taken for credit.

The regular university calendar applies to the School of Music, but students in applied music may enter at any time. All university holidays are observed without make-up of lessons in applied music.

A student is expected not to take part in any public performance without the consent of his instructor and the director.

COURSE IN MUSIC

LEADING TO THE DEGREE OF BACHELOR OF MUSIC

A total of 120 credits and 120 grade-points is required for the degree, including a minimum of 54 credits in the College of Letters and Science and 46 to 66 credits in the School of Music, this number to be decided by consultation with the Director. A total of 32 credits in foreign language, including that taken in high school, is required for graduation. Students will not be enrolled as juniors unless they have obtained an average of 1.5 points per credit in music subjects during the sophomore year. The candidate may choose his major in one of the following fields, in which he may obtain a maximum of 20 credits: applied music, history and theory of music, public school music. The following courses of study are suggested outlines which are subject to alteration, with the consent of the adviser, to meet individual cases.

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Music 81, 82, 83, or 84—Applied music	2	Music 81, 82, 83, or 84—Applied music	2
Music 1—Harmony	3	Music 1—Harmony	3
Music 71—Solfeggio	1	Music 71—Solfeggio	1
Foreign language	4	Foreign language	4
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
History 1, 5, or 10	3	History 1, 5, or 10	3
Physical activity requirement	0	Physical activity requirement	0
	16		16

SOPHOMORE YEAR

Music 81, 82, 83, or 84—Applied music	2	Music 81, 82, 83, or 84—Applied music	2
Music 11—Second year harmony	3	Music 11—Second year harmony	3
Music 21—Counterpoint	2	Music 21—Counterpoint	2
Music 75—Advanced solfeggio	1	Music 75—Advanced solfeggio	1
Music 45 or elective	2	Music 45 or elective	2
Foreign language	3–4	Foreign language	3–4
English or history	3–2	English or history	3–2
Physical activity requirement	0	Physical activity requirement	0
	16		16

MAJOR IN APPLIED MUSIC

JUNIOR YEAR

Music 81, 82, 83, or 84—Applied music	2–3	Music 81, 82, 83, or 84—Applied music	2–3
Music 112—Advanced counterpoint	2	Music 112—Advanced counterpoint	2
Music 31—History of music	2	Music 31—History of music	2
Music 5—Form and analysis	2	Music 37—Applied piano pedagogy	2
Music—36—Piano pedagogy	2	Physics 91—Sound	1
Educ. 31—Principles of education	3	Educ. 75—Psychology and practice of teaching	5
Free elective	2	Free elective	1–2
	15–16		16

SENIOR YEAR

Music 81, 82, 83, or 84—Applied music	2–3	Music 81, 82, 83, or 84—Applied music	2–3
Music 102—Elementary composition	2–3	Music 102—Elementary composition	2–3
Electives	11–9	Electives	11–9
	15		15

MAJOR IN HISTORY AND THEORY OF MUSIC

JUNIOR YEAR

Music 81, 82, 83, or 84—Applied music	1	Music 81, 82, 83, or 84—Applied music	1
Music 112—Advanced counterpoint	2	Music 112—Advanced counterpoint	2
Music 31—History of music	2	Music 31—History of music	2
Music 5—Form and analysis	2	Music 5—Form and analysis	2
Educ. 31—Principles of education	3	Educ. 75—Psychology and practice of teaching	5
Free elective	5	Physics 91—Sound	1
		Free elective	2
	15		15

SENIOR YEAR

Music 102—Elementary composition	2–3	Music 102—Elementary composition	2–3
Music 100—Thesis	2	Music 100—Thesis	2
Electives	11–10	Electives	11–10
	15		15

MAJOR IN PUBLIC SCHOOL MUSIC

In the freshman and sophomore years Music 87 and 88 are substituted for Music 81–84, and Music 45 is required.

All students in this major must, in order to satisfy the piano and voice requirements, furnish evidence that they can do creditably the work as outlined in Courses 87 and 88. The amount of time required to complete these courses depends largely upon individual application and ability.

JUNIOR YEAR

Music 51—Grade-school practice	2	Music 51—Grade-school practice	2
Music 53—High-school problems	2	Music 21—Counterpoint	2
Music 21—Counterpoint	2	Music 31—History of music	2
Music 31—History of music	2	Music 89—Elements of instrumentation	2
Music 89—Elements of instrumentation	2	Educ. 75—Psychology and practice of teaching	5
Educ. 31—Principles of education	3	Physics 91—Sound	1
Free elective	2	Elective	2
	15		16

SENIOR YEAR

Music 55—Grade and high-school supervision	2	Music 55—Grade and high-school supervision	2
Music 5—Form and analysis	2	Music 102 or 112	2
Music 102 or 112	2	Electives	12
Electives	10		
	16		16

DEPARTMENTS OF INSTRUCTION

Abbreviations used in the announcement of courses:
Yr—a continuous course extending through two semesters
I—course given during the first semester
II—course given during the second semester
I, II—semester course given each semester
cr—number of credit hours per semester
*—to be arranged

Courses numbered under 100 may be credited only by undergraduates; those in the 100-group may be credited by both undergraduates and graduates; those in the 200-group are ordinarily open only to graduates; those in the 300-group are teachers' courses and may be credited only by undergraduates unless otherwise indicated.

ART

See Applied Arts, page 186.

ART HISTORY AND CRITICISM

OSCAR FRANK LEONARD HAGEN, Ph.D., *Professor of History and Criticism of Art, Chairman*
WERNER E. HAGER, Ph.D., *Lecturer in History and Criticism of Art*
JOSEPH BARRON, M.A., *Instructor in History and Criticism of Art*
JESSE JANES GARRISON, M.A., *Instructor in History and Criticism of Art*

The department offers to the general student semester courses providing broad surveys of the history of art based upon aesthetic analyses, i.e., appreciation and interpretation. Semester courses 50 and 54 are designed to familiarize the student with the principal art trends (architecture, sculpture, and painting) from the prehistoric cave paintings to the art of the present day. The courses offered in the hundred group treat in a more specific way subjects introduced and broadly sketched in the survey group. For example, following the survey courses come Course 151, Italian Art of the Renaissance; Course 152, Northern Art of the Renaissance. Then seventeenth-century art calls for a separate course, as does nineteenth-century art. These courses not only serve majors, but are of general cultural interest. The exhibit room in Bascom Hall serves for periodical exhibits and study.

MAJOR. 26 credits, including thesis for upper-group students; in addition, a reading knowledge of French, German, or Italian; 12 credits in history as a minimum, (courses particularly recommended are History 1, Medieval history, and History 134, The Renaissance).

It is also recommended, especially for those who expect to teach art or history of art, that from 6 to 12 credits be taken in practice courses (design, painting, etc.), which for the present may be secured in the Department of Industrial Education and Applied Arts. The requirements for a teachers' certificate may be found under the School of Education, page 82.

22. THE CRITICAL APPROACH TO PAINTING. I, II; 3 cr. A study will be made of critical judgments in art. Prerequisite: Consent of instructor. 11 TT and a third hour. Mr. Garrison.

23. CRITICAL ANALYSIS. I, II; 2 cr. Reports of specific problems in criticism will be given by each student. Prerequisite: Art History 22 or consent of instructor. Hours to be arranged. Mr. Garrison.

35. HISTORY OF ARCHITECTURE. I; 2–3 cr. A survey of the development of architecture from ancient times. Prerequisite: Sophomore standing. 8 TT. Mr. Barron.

36. HISTORY OF ARCHITECTURE. II; 2–3 cr. A continuation of Art History 35. 8 TT. Mr. Barron.

38. ARCHITECTURE OF THE MIDDLE AGES. II; 3 cr. Prerequisite: Sophomore standing. 9 TT. Mr. Barron.

44. SURVEY OF MEDIEVAL ART. I; 2–3 cr. A survey of medieval architecture (the cathedrals), sculpture, and painting (mosaics, stained glass, illuminated manuscripts) of Europe from the early Christian through the Gothic epochs. Prerequisite: Sophomore standing. Not offered 1930–31.

50. ANCIENT AND MEDIEVAL ART EPOCHS. I; 2–3 cr. The great originative styles preceding the Renaissance, i.e., the art of Egypt, of Hellas, and of the Christian West through the Gothic period; the specific artistic character and temperament of the various racial groups and their evolution as seen in architecture, sculpture, and the pictorial arts. Prerequisite: Sophomore standing. (Course 54 offers a continuation of the historical development to the present day.) 10 MWF. Mr. O. F. Hagen.

54. MODERN PAINTING AND ITS ANTECEDENTS. II; 2–3 cr. A survey of such problems of painting as constitute the history of painting from the fifteenth century down to the present age; in other words, the genesis of modern art through the preceding four centuries. Prerequisite: Sophomore standing. Fee $3.75. 10 MWF. Mr. Hagen.

101. GRAPHIC ARTS IN EUROPE. I; 2 cr. History of wood-cuts, engravings, and etching on copper from the origins in 1400 A. D. to Rembrandt. Prerequisite: Consent of instructor. Offered 1929–30 and in alternate years. 2:30 MW. Mr. O. F. Hagen.

102. GRAPHIC ARTS IN THE EIGHTEENTH AND NINETEENTH CENTURIES. II; 2 cr. History of engraving, wood-cuts, etching, and lithography. Prerequisite: Art History 101. Offered 1929–30 and in alternate years. 2:30 MW. Mr. O. F. Hagen.

103. BASIC CONCEPTS IN RENAISSANCE AND BAROQUE ART. I; 3 cr. Prerequisite: Art History 54. Offered 1929–30 and in alternate years. 11 MWF. Mr. O. F. Hagen.

104. ITALIAN SCULPTURE. II; 2 cr. Illustrated lectures. Prerequisite: Art History 54. 11 MWF.

106. PAINTING IN THE AGE OF IMPRESSIONISM. I; 3 cr. Prerequisite: Art History 54. 11 MWF. Mr. W. E. Hager.

113. History of Greek Sculpture. II; 3 cr. Prerequisite: Sophomore standing. Offered 1929–30 and in alternate years. Mr. O. F. Hagen.

114. Romanesque and Gothic Sculpture. II; 3 cr. Prerequisite: Art History 50 or 54. Offered 1929–30 and in alternate years. Mr. W. E. Hager.

141. Early Italian Art. I; 2 cr. A study of Italian art up to the 16th century. Prerequisite: Art History 54. Offered 1929–30 and in alternate years. Mr. W. E. Hager.

151. Italian Painting of the Renaissance. I; 3 cr. The period from Giotto to Michelangelo and Rafael. Prerequisite: Art History 54. Offered 1930–31 and in alternate years. Mr. O. F. Hagen.

152. Northern Painting of the Renaissance. II; 3 cr. Painting in France, Flanders, Holland, and Germany from the Van Eycks to Albrecht Dürer. Prerequisite: Art History 54. Offered 1929–30 and in alternate years.

153. Seventeenth-Century Painting. II; 3 cr. Prerequisite: Art History 54. Offered 1930–31 and in alternate years.

205. Introductory Seminary. I, II; 2 cr. Mr. W. E. Hager.

210. Seminary. Yr; 2 cr. The subjects of research, which change from semester to semester, are generally chosen from the fields covered in the advanced courses. Mr. Hagen.

ASTRONOMY

Joel Stebbins, Ph.D., Sc.D., *Professor of Astronomy, Chairman*
Charles Morse Huffer, Ph.D., *Assistant Professor of Astronomy*

1. General Astronomy. I; 3 cr. Prerequisite: Sophomore standing. Mathematics not required. Lecture 1:30 MWF; one evening per week at observatory. Mr. Stebbins.

6. Navigation and Practical Astronomy. II; 2 cr. Prerequisite: A course in trigonometry. 3:30 T, 10–12 S. Mr. Stebbins.

7. Advanced Field Astronomy. Yr; 2–3 cr. Prerequisite: Astronomy 6. Mr. Stebbins.

101. Astrophysics: The Solar System. I; 3 cr. Prerequisite: Mathematics 2, Physics 31. Mr. Huffer.

102. Astrophysics: Stellar Astronomy. II; 3 cr. Prerequisite: Mathematics 2, Physics 31. Mr. Huffer.

116. Celestial Mechanics. Yr; 3 cr. Prerequisite: A course in calculus. Mr. Stebbins.

200. Research. Yr; 3–5 cr. Graduate students and others qualified to pursue advanced astronomical studies will be received in the Washburn Observatory as assistants. Facilities for independent original work will be afforded to such students, and their work, if of sufficient value, may be printed in the Publications of the Washburn Observatory.

BACTERIOLOGY

(See Medical Bacteriology or Agricultural Bacteriology.)

BIOLOGY

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

1. GENERAL BIOLOGY. Yr; 5 cr. An elementary one-year course in general biology may be taken by combining Botany 1 and Zoology 1, both of which are given each semester. Either one may precede the other, although the normal order is to follow botany with zoology. Introductory to botany, zoology, anatomy, bacteriology, and physiology. (See Botany 1 and Zoology 1.)

310. THE TEACHING OF BIOLOGY. Yr; 3 cr. First semester, zoology; second semester, botany. Prerequisite: Junior standing. 2:30 TT. Miss Weber.

BOTANY

EDWARD MARTINIUS GILBERT, Ph.D., *Professor of Botany and Plant Pathology, Chairman*
CHARLES ELMER ALLEN, Ph.D., *Professor of Botany*
GEORGE SMITH BRYAN, *Professor of Botany*
BENJAMIN MINGE DUGGAR, Ph.D., *Professor of Physiological and Applied Botany*
LEWIS RALPH JONES, Ph.D., *Professor of Plant Pathology*
GEORGE WANNAMAKER KEITT, Ph.D., *Professor of Plant Pathology*
JAMES BERTRAM OVERTON, Ph.D., *Professor of Plant Physiology*
ROLLIN HENRY DENNISTON, Ph.D., *Assistant Professor of Botany*
NORMAN CARTER FASSETT, Ph.D., *Assistant Professor of Botany*
EMMA LUELLA FISK, Ph.D., *Assistant Professor of Botany*
CHARLES HERBERT OTIS, Ph.D., *Assistant Professor of Botany*
JOHN JEFFERSON DAVIS, B.S., M.D., *Curator of the Herbarium*
RUTH MARGERY ADDOMS, Ph.D., *Instructor in Botany*
DELMAR CLAIRE COOPER, M.S., *Instructor in Botany*
GEORGE OLDS COOPER, Ph.D., *Instructor in Botany*
RUTH IRENE WALKER, Ph.D., *Instructor in Botany*

MAJOR: 30 credits, including thesis, Botany 1, and an elementary course in zoology.

1. GENERAL BOTANY. I, II; 5 cr. Preliminary to all advanced work. Accepted with Zoology 1 to make up an elementary course in general biology. Lab. fee $5.00. Lecture 2:30 MW or 10 TT; 6 hrs. lab., 2 hrs. quiz. Mr. Bryan, Miss Fisk, Miss Addoms, Miss Walker, and staff.

2. ADVANCED GENERAL BOTANY. II; 5 cr. Accepted as part of a teacher's minor or, with Botany 1, in satisfaction of the requirement of a year of natural science. The laboratory work of the course is a comprehensive survey of the plant kingdom and includes in the late spring the use of keys in the identification of many plants. The lectures deal primarily with the history of the development of the scientific spirit in biology and involve a discussion of the modern problems of evolution, inheritance, variation, etc. Prerequisite: Botany 1. Lab. fee $5.00. Lecture 10 TT; 6 hrs. lab., 2 hrs. quiz. Mr. Bryan, Miss Fisk, and staff.

100. SENIOR THESIS. Yr; 2 cr. A subject should be selected, whenever possible, before the close of the junior year. Lab. fee $1.50 per cr. 10 TT. Mr. Gilbert.

101. DISEASES OF PLANTS. I; 3 cr. Prerequisites: Botany 1 and Agr. Bact. 1. Lab. fee $4.50. 1:30–3:30 MWF. Mr. Jones, Mr. Gilbert, Mr. Walker.

102. METHODS IN PLANT PATHOLOGY. I; 3 cr. Prerequisite: Botany 101. Lab. fee $4.50. 10–12 MWF. Mr. Keitt and staff.

103. MORPHOLOGY OF ALGAE. I; 3 cr. Prerequisite: Botany 1. Offered 1930–31 and in alternate years. Lab. fee $3.50. 8–10 TTS. Mr. Allen.

104. MORPHOLOGY OF FUNGI. I; 3 cr. Prerequisite: Botany 1. Lab. fee $3.50. 8–10 MWF. Mr. Gilbert.

107. MORPHOLOGY OF GYMNOSPERMS. I; 3 cr. Prerequisite: Botany 1. Offered 1929–30 and in alternate years. Lab. fee $3.50. 1:30–3:30 MWF. Mr. Bryan.

108. MORPHOLOGY OF ANGIOSPERMS. II; 3 cr. Prerequisite: Botany 1. Lab. fee $3.50. 8–10 MWF. Miss Fisk.

110. PLANT HISTOLOGY. I; 3 or 4 cr. Prerequisite: Botany 1. Lab. fee $3.50. 10–12 MWF. Mr. Denniston.

111. MICROSCOPICAL EXAMINATION OF DRUGS AND FOODS. II; 3 cr. Prerequisite: Botany 110. Lab. fee $4.50. 10–12 MWF. Mr. Denniston.

112. MORPHOLOGY OF BRYOPHYTES. II; 3 cr. Prerequisite: Botany 1. Offered 1930–31 and in alternate years. Lab. fee $3.50. 8–10 TTS. Mr. Allen.

113. MORPHOLOGY OF PTERIDOPHYTES. II; 3 cr. Prerequisite: Botany 1. Offered 1929–30 and in alternate years. Lab. fee $3.50. 1:30–3:30 MWF. Mr. Bryan.

117. STRUCTURE OF ECONOMIC PLANTS. I; 3 cr. Prerequisites: Botany 1 and 2. Lab. fee $3.50. 8–10 MWF. Miss Addoms.

118. STRUCTURE OF FRUITS AND SEEDS. II; 3 cr. Prerequisites: Botany 1 and 2. Offered 1929–30 and in alternate years. Lab. fee $3.50. Miss Addoms.

129. Classification of Cultivated Plants. I; 2 or 3 cr. Prerequisite: Botany 1. Lab. fee $3.00. 8–10 TT. Miss Fisk.

130. Identification and Classification of Seed Plants. II; 3 or 4 cr. Prerequisite: Botany 1. Lab. fee $3.00. 8–10 TTS. Mr. Denniston.

131. Dendrology. II; 2 cr. Prerequisite: Botany 1. 3:30–5:30 TT. Mr. Denniston.

146. Plant Physiology. II; 4 cr. Prerequisites: Botany 1 and a knowledge of physics and chemistry. Lab. fee $5.00. Lecture 11 TT; lab. 9–11 ThS or 1:30–3:30 TT; quiz 11 S or 3:30 Th. Mr. Overton, Mr. Otis.

147. Advanced Plant Physiology. Yr; *cr. Prerequisite: Botany 146. Lab. fee $5.00. 10–12 MTWT. Mr. Overton.

148. Physiological Methods and Materials. I; *cr. Prerequisite: Botany 146. Lab. fee $2.50. 10 MW. Mr. Duggar.

149. Special Physiology of Pathogenic Fungi. II; 2 cr. Prerequisite: Botany 146. 9 TT. Mr. Duggar.

150. Cytology. Yr; 5 cr. Prerequisites: Botany 1 and 2. Lab. fee $5.00. Lecture 10 TT; lab. 10–12 MWF, 11 TT. Mr. Allen, Miss Walker.

154. Evolution of Plants. I; 2 cr. Prerequisites: Botany 1 and 2. Offered 1929–30 and in alternate years. 2:30 MW. Mr. Allen.

156. Inheritance and Variation. II; 2 cr. Prerequisites: Botany 1 and 2. Lecture 2:30 MW. Mr. Allen.

160. Plant Geography of Wisconsin. II; 3 or 4 cr. Prerequisite: Botany 1. Lab. fee $3.50. 1:30–4:30 TT. Mr. Fassett.

200. Research. Yr; *cr. Investigation may be undertaken in any department of botany in which the student's preparation is adequate. Lab. fee $2.00 per credit. Staff.

214. Seminary in General Botany. Yr; *cr. Mr. Allen.

215. Seminary in Plant Physiology. Yr; *cr. Mr. Duggar, Mr. Overton.

220. Advanced Mycology. Yr; 2 cr. Morphology and classification of fungi. Prerequisites: Botany 101, 104. Lab. fee $2.00. Mr. Gilbert.

221. Classification of Parasitic Fungi. Yr; *cr. Practice in the identification of parasitic fungi in field and laboratory, with discussions of principles used in classification and nomenclature. Mr. Davis.

252. Cytology of the Fungi. II; *cr. The various methods of fixation and staining of fungi, with laboratory exercises applying these methods in a study of bacteria and fungi. Prerequisite: At least one semester of general cytology. Offered 1929–30 and in alternate years. Lab. fee $2.00 per cr. Mr. Gilbert.

TEACHERS' COURSE

310. THE TEACHING OF BOTANY. II; 3 cr. (See Biology 310, page 123.)

See Zoology 106 and 107 and Genetics 101–106 for other courses in evolution and heredity; also Horticulture 7 and 8 for courses in plant propagation and floriculture. The announcements of the Departments of Genetics and Horticulture appear under the College of Agriculture.

CHEMISTRY

JOSEPH HOWARD MATHEWS, Ph.D., *Professor of Chemistry, Chairman*
HOMER BURTON ADKINS, Ph.D., *Professor of Chemistry*
FARRINGTON DANIELS, Ph.D., *Professor of Chemistry*
RICHARD FISCHER, Ph.D., *Professor of Chemistry*
LOUIS KAHLENBERG, Ph.D., *Professor of Chemistry*
FRANCIS CRAIG KRAUSKOPF, Ph.D., *Professor of Chemistry*
JAMES HENRI WALTON, Ph.D., *Professor of Chemistry*
SAMUEL MARION MCELVAIN, Ph.D., *Associate Professor of Chemistry*
HENRY AUGUST SCHUETTE, Ph.D., *Associate Professor of Chemistry*
HOWARD NEWTON CALDERWOOD, Ph.D., *Assistant Professor of Chemistry*
NORRIS FOLGER HALL, Ph.D., *Assistant Professor of Chemistry*
VILLIERS WILSON MELOCHE, Ph.D., *Assistant Professor of Chemistry*
CLARENCE HARVEY SORUM, Ph.D., *Assistant Professor of Chemistry*
JOHN WARREN WILLIAMS, Ph.D., *Assistant Professor of Chemistry*
HARRY ROBERT DITTMAR, Ph.D., *Instructor in Chemistry*
LOREN CURTIS HURD, Ph.D., *Instructor in Chemistry*
MICHAEL WILLIAM KLEIN, Ph.D., *Instructor in Chemistry*
DONALD W. MACCORQUODALE, Ph.D., *Instructor in Chemistry*
ROBERT J. MCCUBBIN, Ph.D., *Instructor in Chemistry*
WILLIAM EARL ROSEVEARE, Ph.D., *Instructor in Chemistry*

MAJOR. In addition to a thesis, at least 30 credits, including course 1, 6 credits in course 11 (including the lectures throughout the year), courses 120 and 130, and 2 credits in each of courses 121 and 131.

1a. GENERAL CHEMISTRY. I; 5 cr. Lab. fee and deposit, $17.50. Lecture 9 WF or 10 TT; 6 hrs. lab., 2 hrs. quiz. (Repeated second semester; lecture 2:30 TT.) Mr. Walton, Mr. Krauskopf, Mr. Sorum, Mr. Dittmar, Mr. MacCorquodale, Mr. McCubbin, and staff.

1b. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS. II; 5 cr. Continuation of Chemistry 1a, which is prerequisite. Lab. fee and deposit, $17.50. Mr. Walton, et al.

Chemistry 1a and Chemistry 1b are consecutive courses in general chemistry and are desirable courses for students majoring in other sciences or for those desiring a general cultural knowledge of chemistry. These two courses satisfy the requirements of 10 credits in science for the B.A. degree. The work in Chemistry 1a is devoted to theoretical chemistry and descriptive chemistry of the non-metals, and that of Chemistry 1b to the general chemistry of the metals and qualitative analysis. Students who have had good courses in chemistry in high school are placed in sections in which the work is more advanced. The equivalent of either of these courses may be taken in the summer session and Chemistry 1a is also offered in the second semester.

2a. GENERAL CHEMISTRY. I; 4 cr. For freshmen in engineering only. Lab. fee and deposit, $15.00. Lecture 11 MW; 4 hrs. lab., 2 hrs. quiz. (Repeated second semester; lecture, 2:30 TT.) Mr. Kahlenberg, Mr. Calderwood, and staff.

2b. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS. II; 4 cr. Continuation of Chemistry 2a, which is prerequisite. Lab. fee and deposit, $15.00. Mr. Kahlenberg, Mr. Calderwood, and staff.

10. MATHEMATICAL CHEMISTRY. I; 3 cr. Prerequisites: Algebra, trigonometry, and Chemistry 1 or 2. Students who desire to specialize in chemistry should take Chemistry 10 or Mathematics 5. 9 MWF. Mr. Daniels.

11. QUANTITATIVE ANALYSIS. Yr; 3–5 cr. Prerequisite: General chemistry, including qualitative analysis. The first semester of this course is repeated in the second semester. Lab. fee and deposit, 3 or 4 cr., $20.00; 5 cr., $25.00. Lecture 9 TT; 6–9 hrs. lab. Mr. Hall, Mr. Hurd, and staff.

12. QUANTITATIVE ANALYSIS. I; 3 cr. For agricultural students only. Prerequisite: General chemistry, including qualitative analysis. Lab. fee and deposit $20.00. Lecture 1:30 Tu; 5 hrs. lab. Mr. Meloche and staff.

14. QUANTITATIVE ANALYSIS. I; 5 cr. For engineering students only. Prerequisite: General chemistry, including qualitative analysis. Lab. fee and deposit $25.00. Lecture 9 TT; 7 hrs. lab. Mr. Meloche and staff.

15. QUANTITATIVE ANALYSIS. II; 2 cr. For pharmacy students only. Lab. fee and deposit $15.00. Lecture 1:30 Tu; 5 hrs. lab. Mr. Meloche and staff.

20. ORGANIC CHEMISTRY. I, II; 2 cr. Prerequisite: Chemistry 1 or 2. An introductory course for students who do not have the time required for Chemistry 120, or who do not require so extensive a course. Courses 20 and 21 should be taken concurrently. Lecture 8 MWF. Mr. McElvain, Mr. Klein, and staff.

21. ORGANIC CHEMISTRY. I, II; 2 cr. Prerequisite: Credit or concurrent registration in Chemistry 20. Lab. fee and deposit $20.00. Lab. 6 hrs. Mr. McElvain, Mr. Klein, and staff.

30. PHYSICAL CHEMISTRY. II; 3 cr. For chemical engineering students. Lab. fee and deposit $15.00. Lecture 11 TT; lab. Mr. Daniels, Mr. Roseveare, and staff.

100. SENIOR THESIS. Yr; *cr. Lab. fee and deposit, 2 cr. $15.00. Staff.

106. ADVANCED QUANTITATIVE ANALYSIS. Yr; *cr. A continuation of Chemistry 11. Lab. fee and deposit, 1 cr. $10.00; $5.00 per additional credit. Mr. Hall, Mr. Meloche.

107. HISTORY OF CHEMISTRY. I; 2 cr. Prerequisite: Chemistry 11, 120, or concurrent registration. Lecture 9 MW. Mr. Kahlenberg.

108. ADVANCED QUALITATIVE ANALYSIS. II; 2–5 cr. Prerequisite: Chemistry 1. Lab. fee and deposit, $15.00; $5.00 per additional credit. Mr. Krauskopf.

113. WATER ANALYSIS. II; 1 cr. Prerequisite: Chemistry 11 or consent of instructor. Lab. fee and deposit, $7.50. Lecture and lab. 8–12 S. Eight-week course. Mr. Schuette.

116. INDUSTRIAL ORGANIC ANALYSIS. I, II; *cr. Prerequisites: Chemistry 11 and one semester of organic chemistry. Lab. fee and deposit, 1 cr. $10.00; $5.00 per additional credit. Mr. Schuette.

117. INORGANIC PREPARATIONS. I, II; *cr. Prerequisite: Chemistry 1b or 2b. Lab. fee and deposit, 1 cr. $10.00; $5.00 per additional credit. Mr. Hurd.

118. IRON AND STEEL ANALYSIS. I, II; *cr. Prerequisite: Chemistry 11 or 14. Lab. fee and deposit, 1 cr. $10.00; $5.00 per additional credit. Mr. Hurd.

119. ORGANIC ANALYSIS. I; 3 cr. Prerequisites: Chemistry 11 and one semester of organic chemistry. Lab. fee and deposit, $20.00. Lecture 8 MW; lab. 1:30–4:30 MW. Mr. Schuette.

120. ORGANIC CHEMISTRY. Yr; 2 cr. Prerequisite: Chemistry 1 or 2. Courses 120 and 121 should be taken concurrently. Lecture 8 TT; quiz. Mr. Fischer and staff.

121. ORGANIC CHEMISTRY. Yr; 1–3 cr. Prerequisite: Credit or concurrent registration in Chemistry 120. Lab. fee and deposit, 1 cr. $15.00; $5.00 per additional credit. Lab. 3 to 8 hrs. Mr. Fischer and staff.

123. CHARACTERIZATION OF ORGANIC COMPOUNDS. I; 3 cr. Prerequisites: Chemistry 120 and 121. A study of homologous reactions, separation, and identification of organic compounds. Designed as an aid to research involving organic compounds. Lab. fee and deposit, $15.00. Conference 1:30 Th; lab. 1:30–5:30 TT. Mr. McElvain.

124. ADVANCED SURVEY OF ORGANIC CHEMISTRY. Yr; 2 cr. Prerequisite: Chemistry 120. Lecture 10 TT. Mr. Adkins.

125. ADVANCED ORGANIC PREPARATIONS. Yr; *cr. Prerequisite: Chemistry 121. Lab. fee and deposit, 1 cr. $10.00; $5.00 per additional credit. Mr. Fischer, Mr. Adkins, Mr. McElvain, Mr. Klein.

126. CHEMISTRY OF COAL-TAR DYES. I; 2 cr. Prerequisite: Chemistry 120. Offered 1929–30 and in alternate years. Lecture 4:30 MW. Mr. Fischer.

128. CHEMISTRY OF ORGANIC NITROGEN COMPOUNDS. I; 2 cr. Prerequisite: Chemistry 120. Offered 1930–31 and in alternate years. Mr. Fischer.

130. PHYSICAL CHEMISTRY. Yr; 2 cr. Prerequisites: Chemistry 1 and 11, and Physics 1 or 31. A course in calculus is desirable. Courses 130 and 131 should be taken concurrently. Lecture 11 MWF. Mr. Mathews, Mr. Daniels, and staff.

131. PHYSICAL CHEMISTRY. Yr; 1–3 cr. Prerequisite: Credit or concurrent registration in Chemistry 130. Lab. fee and deposit, 1 cr. $15.00; $2.50 per additional credit. Lab. 3 to 8 hrs. Mr. Mathews, Mr. Daniels, Mr. Roseveare, and staff.

132. THERMAL CHEMISTRY. I; 2 cr. Prerequisites: Chemistry 130 and 131. Offered 1929–30 and in alternate years. Lecture 9 TT. Mr. Mathews.

133. PHOTO-CHEMISTRY. I; 2 cr. Prerequisites: Chemistry 130 and 131. Offered 1930–31 and in alternate years. Lecture 9 TT. Mr. Mathews.

134. ELECTRO-CHEMISTRY. II; 2 cr. Prerequisites: Chemistry 130 and 131. Offered 1931–32 and in alternate years. 9 TT. Mr. Roseveare.

135. CHEMISTRY OF SOLUTIONS. II; 2 cr. Prerequisite: Chemistry 130. Lecture 9 MW. Mr. Kahlenberg.

136. RELATION OF PHYSICAL CHEMISTRY TO OTHER SCIENCES. II; 2 cr. Prerequisite: Chemistry 130. Given when demand warrants. Mr. Kahlenberg.

142. ATOMIC STRUCTURE. II; 2 cr. Prerequisite: Chemistry 130. Offered 1931–32 and in alternate years. 8 TT. Mr. Daniels.

143. MOLECULAR STRUCTURE. II; 2 cr. Prerequisite: Chemistry 130. Offered 1930–31 and in alternate years. Mr. Roseveare.

146. CHEMISTRY OF FOODS AND THEIR ADULTERATIONS. II; 2 cr. Prerequisites: One semester's work in quantitative and in organic chemistry. Lecture 8 MWF. Mr. Schuette.

147. CHEMISTRY OF FOODS AND THEIR ADULTERATIONS. II; 1–3 cr. Prerequisite: Credit or concurrent registration in Chemistry 146. Lab. fee and deposit, 1 cr. $10.00; $5.00 per additional credit. Lab. 3 to 9 hrs. Mr. Schuette.

148. ELEMENTARY COLLOID CHEMISTRY. I; 2 cr. An introductory course for students who do not desire to specialize in the subject. Prerequisite: Chemistry 130. Lecture 8 MW. Mr. Williams.

149. COLLOID CHEMISTRY. Yr; 2 cr. For students desiring to specialize in the subject. Prerequisites: Chemistry 130 and 131. Lecture 11 MW. Mr. Williams.

151. ADVANCED INORGANIC CHEMISTRY. Yr; 2 cr. Offered 1930–31 and in alternate years. Lecture 11 TT. Mr. Hall.

155. ADVANCED INORGANIC ANALYSIS. Yr; 2 cr. Offered 1931–32 and in alternate years. Lecture 11 TT. Mr. Hall.

161. THE PHASE RULE. I; 1 cr. Offered 1929–30 and in alternate years. Mr. Sorum.

162. CHEMICAL DYNAMICS. I; 1 cr. Offered 1930–31 and in alternate years. Mr. Walton.

200. RESEARCH IN ORGANIC CHEMISTRY. Yr; *cr. Mr. Fischer, Mr. Adkins, Mr. McElvain, Mr. Klein.

201. RESEARCH IN GENERAL CHEMISTRY. Yr; *cr. Mr. Kahlenberg, Mr. Walton, Mr. Krauskopf, Mr. Calderwood, Mr. Sorum.

202. Research in Physical Chemistry. Yr; *cr. Mr. Mathews, Mr. Daniels, Mr. Roseveare.

203. Research in Foods and Sanitation. Yr; *cr. Mr. Schuette.

205. Research in Colloids. Yr; *cr. Mr. Williams.

206. Research in Inorganic Chemistry. Yr; *cr. Mr. Hall, Mr. Meloche, Mr. Hurd.

209. Lives of Great Chemists. II; 2 cr. Offered when demand warrants. Mr. Kahlenberg.

224. Advanced Organic Chemistry. 2 cr. Prerequisite: Chemistry 120. A cycle of four semesters which students may enter any semester. 7 p.m. TT. Mr. Fischer.

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

239. Seminary in Physical Chemistry. Yr; 1 cr. Prerequisite: Chemistry 130. 7:15 p.m. M. Mr. Mathews, Mr. Daniels, Mr. Roseveare.

244. Thermodynamics. II; 2 cr. Prerequisites: Chemistry 130 and calculus. Offered 1930–31 and in alternate years. Mr. Daniels.

247. Seminary in Organic Chemistry. Yr; 1 cr. 10 W. Mr. Fischer, Mr. Adkins, Mr. McElvain, Mr. Klein.

250. Seminary in Colloid Chemistry. Yr; 1 cr. Prerequisite: Consent of instructor. 11 S. Mr. Williams.

252. Seminary in Inorganic Chemistry. Yr; 1 cr. Mr. Hall, Mr. Meloche, Mr. Hurd.

254. Seminary in Foods and Sanitation. Yr; 1 cr. Mr. Schuette.

263. Seminary in General Chemistry. Yr; 1 cr. Mr. Walton, Mr. Krauskopf, Mr. Sorum.

TEACHERS' COURSE

311. The Teachig of Chemistry. II; 2–3 cr. Prerequisites: Chemistry 1; first semester of Chemistry 120; credit or enrollment for five credits in Chemistry 11. Lecture 1:30 TT. Mr. Walton.

CLASSICS

Arthur Gordon Laird, Ph.D., *Professor of Greek, Chairman*
Walter Raymond Agard, B.Litt., *Professor of Greek*
Harold Bennett, Ph.D., *Professor of Classics*
Grant Showerman, Ph.D., *Professor of Classics*
Calla A. Guyles, Ph.B., *Assistant Professor in the Teaching of Latin*
John Jacob Schlicher, Ph.D., *Assistant Professor of Latin*
Alban Dewes Winspear, M.A., *Assistant Professor of Classics*

Major. In Greek, a thesis and 24 credits, exclusive of Greek 1; in Latin, a thesis and 24 credits exclusive of Latin 1–4, 190, and 374, but including six credits in advanced reading of the 100-group. Lower-group students are required to do four credits of advanced reading in lieu of writing a thesis. For teaching major see page 90.

GREEK

1. ELEMENTARY GREEK. Yr; 4 cr. Study of forms and syntax, with translation and easy prose composition. Selections from Xenophon's *Anabasis*. 1:30 MTTF. Mr. Laird.

7. XENOPHON AND PROSE COMPOSITION. Yr; 3 cr. Prerequisite: Greek 1. Mr. Laird.

10. HOMER AND PLATO. Yr; 3 cr. *Iliad, Apology, Crito*. Prerequisite: Greek 1. 11 MWF. Mr. Laird.

20. GREEK DRAMA AND LYRIC POETRY. Yr; 3 cr. During the first semester Sophocles' *Antigone* and Euripides' *Medea* will be read in Greek, and various other tragedies and the *Frogs* of Aristophanes in English. Selections from the lyric poets will be read in the second semester. Prerequisite: Greek 10. 1:30 MWF. Mr. Agard.

106. HERODOTUS AND THUCYDIDES. Yr; 3 cr. A study of the sources for Greek fifth-century history by means of reading, essays, and lectures. Prerequisite: Greek 20 or concurrent registration. Offered 1929–30 and in alternate years. Mr. Winspear.

108. PLATO. Yr; 3 cr. Prerequisite: Greek 20 or concurrent registration. Mr. Winspear.

109. ARISTOTLE. Yr; 3 cr. The *Nicomachean Ethics* and selected passages from the *Politics* and *Metaphysics*. Prerequisite: Greek 108 or consent of the instructor. Offered 1929–30 and in alternate years. Mr. Winspear.

110. ADVANCED GREEK COMPOSITION. Yr; 1 cr. Prerequisite: Greek 20. Mr. Laird.

111. GREEK DRAMA. Yr; 3 cr. Two plays each of Aeschylus, Sophocles, Euripides, and Aristophanes, with lectures and directed readings in the history of the Greek drama. Prerequisite: Greek 20. 9 MWF. Mr. Winspear.

112. CLASSICAL LIFE AND LETTERS. Yr; 1–3 cr. A general survey of ancient civilization; the life of the Greeks and Romans as seen in their literature and monuments. First semester, Greece; second semester, Rome. The course deals with the most famous Greek and Roman sites, is illustrated, and has a travel and archaeological interest. Prerequisite: Full sophomore standing. 9 MWF. Mr. Showerman.

122. CLASSICAL ART AND ARCHAEOLOGY. II; 3 cr. A general survey of the architecture, sculpture, and painting of Greece and Rome, with travel background. The history of the various arts is continued up to the Renaissance, and in the case of architecture up to the present time. Prerequisite: Full sophomore standing. Offered 1929–30 and in alternate years. 9 MWF. Mr. Showerman.

180. DIRECTED READING FOR SENIORS. A limited number of credits can be arranged for work done on the tutorial or honors system by seniors whose previous records have been satisfactory. Students who wish to arrange any part of their work in this way should consult the appropriate instructor and the chairman of the department before the end of the junior year.

230. GREEK SEMINARY. Yr; 2 cr. The subject varies from year to year. In 1930–31 it will be Homer. Prerequisite: Graduate standing. 10–12 S. Mr. Laird.

LATIN

1. ELEMENTARY LATIN. I, II; 5 cr. The elements of the language, including forms and syntax, with simple translation into Latin and English, equivalent to a full year of high-school work, and preparatory to reading Caesar in the second semester. First semester (four sections): 8 and 10 MTWTS; 11 and 2:30 MTWTF. Second semester: 8 MTWTF.

2. CAESAR. I, II; 5 cr. The equivalent of the second year of high-school Latin. The reading of selections from the seven books of the *Gallic War*. Composition once a week. Prerequisite: Latin 1 or one year of high-school Latin. First semester: 9 MTWTF. Second semester (four sections): 8 and 10 MTWTS; 11 and 2:30 MTWTF.

3. CICERO. I, II; 4 or 5 cr. Four of the shorter orations, or an equivalent amount selected from the orations and letters. Composition one day a week for those who take the course for five credits. Prerequisite: Latin 2 or two years of high-school Latin. First semester: 10 M—F. Second semester: 9 M—F.

4. VIRGIL. I, II; 4 or 5 cr. The parts read are taken from the first six books of the *Aeneid*. As in Latin 3, one day a week is given to composition for those who take the course for five credits. Prerequisite: Latin 3 or three years of high-school Latin. First semester: 2:30 M—F. Second semester: 10 M—F.

5. SALLUST. II; 4 cr. This course follows immediately upon Latin 4, and at the same hour. It is given in the second semester to enable students who graduate from high school in the middle of the year to continue their Latin study at once. The reading consists of the *Jugurthine War*, with composition once a week. Prerequisite: Latin 4 or four years of high-school Latin. 2:30 MTTF. Mr. Bennett.

6. OVID, LIVY, CICERO. Yr; 4 cr. In the first semester, selections from Ovid's *Metamorphoses* and Livy, Book I; in the second, selections from Livy, Books XXI and XXII, and Cicero's *De Senectute* or selected Letters. A systematic course in composition continues, once a week, through the year. Prerequisite: Latin 4 or four years of high-school Latin. Three sections: one at 11 MTTF, Mr. Schlicher; two at 2:30 MTTF, Mr. Winspear, Mr. Bennett.

7. HORACE AND POETRY SURVEY. Yr; 3 or 4 cr. In the first semester, the Odes; in the second, select Satires and Epistles, and a general survey of Latin poetry. The fourth hour will be devoted to Latin composition. Students with a grade of A or B in composition may substitute all of Latin 7 for the first semester of Latin 107. Prerequisite: Latin 6. Two sections, 8 MWF. Mr. Showerman, Mr. Winspear.

9. SIGHT READING. Yr; 1 cr. A considerable amount of Latin from Cicero and other authors will be read in class to increase the student's ability to take in the thought of the sentence as he moves through it. Translation is resorted to only when necessary. Prerequisite: Latin 6. 1:30 TT. Mr. Schlicher.

10. CLASSICAL MYTHOLOGY. I; 1 or 2 cr. For one credit, text book and illustrated lectures. For two credits, the same with the addition of outside reading in English. A knowledge of Latin is not required. Prerequisite: Full sophomore standing. Offered 1929–30 and in alternate years. 9 TT.

13. PRINCIPLES OF TRANSLATION. II; 1 cr. Detailed study of the differences between English and Latin idiom and sentence structure. Carefully written translations will be made and will be criticized and discussed in class. Prerequisite: Latin 6. Mr. Schlicher.

105. PLINY AND MARTIAL. II; 3 cr. Selected letters of Pliny and epigrams of Martial are read, with special attention to the various phases of Roman life reflected in them. Prerequisite: Latin 7. 9 MWF.

106. ROMAN ELEGIAC POETS. II; 3 cr. Selections from Tibullus, Propertius, and Ovid. Lectures and assigned reading on the Augustan age. Prerequisite: Latin 7. 11 MWF. Mr. Bennett.

107. ADVANCED LATIN COMPOSITION. Yr; 2 cr. In the first semester, written and oral translation into Latin of connected passages based on Latin authors, with special attention to sentence construction and idiom. In the second semester, more advanced exercises of the same kind leading to free composition and a comparative study of Latin prose style. Prerequisites: Latin 6 (including the composition) and 7. 10 TT. Mr. Schlicher.

108. CICERO'S LETTERS. I; 3 cr. The life, times and words of Cicero, with readings from the letters. Prerequisite: Latin 7. Offered 1929–30 and in alternate years. Mr. Showerman.

109. ROMAN DRAMA. II; 3 cr. Selected comedies of Plautus and Terence. Lectures and assigned reading on the history of classical drama and its influence. Prerequisite: Latin 7. Offered 1929–30 and in alternate years. Mr. Bennett.

110. LUCRETIUS. II; 3 cr. As much as possible of the *De Rerum Natura*, with background of the history of philosophy in Greece and Rome. Prerequisite. Latin 7. 10 MWF. Mr. Showerman.

111. VIRGIL. I; 3 cr. A review of the works of Virgil, with special attention to *Aeneid* VII–XII. Prerequisite: Senior standing. 10 MWF. Mr. Showerman.

112. CLASSICAL LIFE AND LETTERS. (See Greek 112.)

113. CICERO'S ORATIONS. II; 3 cr. Representative orations of Cicero and the *Dialogus* of Tacitus will be studied in their setting and purpose, as documents of the time and as illustrations of rhetorical theory and practice. Prerequisite: Latin 7. 2:30 MWF. Mr. Schlicher.

115. ROMAN BIOGRAPHY. I; 3 cr. Suetonius, lives of Caesar and Augustus, the *Agricola* of Tacitus, and several biographies of Nepos and the *Historia Augusta* are read, either in class or privately. Attention is given to ancient biography as a type, and to the use made of it in other fields. Prerequisite: Latin 7. 2:30 MWF. Mr. Schlicher.

118. ROMAN SATIRE. I; 3 cr. Selected satires of Horace, Persius, and Juvenal. Study of satire as a literary *genre*. Lectures and assigned reading on the social conditions at Rome in the time of the Empire. Prerequisite: Latin 7. 11 MWF. Mr. Bennett.

119. TACITUS. II; 3 cr. Either the principate of Tiberius or the reign of Nero is studied by lectures, recitations, and reports. The ethical and literary ideals of Tacitus and his treatment of social, political, and economic movements will be considered. (In 1929–30, the principate of Tiberius.) Prerequisite: Latin 7. Offered 1929–30 and in alternate years. Mr. Winspear.

120. HISTORIANS OF THE REPUBLIC. I; 3 cr. Selections from Livy, Sallust, and Caesar's *Civil War*. Study of Roman senatorial government and its overthrow. Prerequisite: Latin 7. Offered 1929–30 and in alternate years. Mr. Bennett.

122. CLASSICAL ART AND ARCHAEOLOGY. (See Greek 122.)

180. DIRECTED READING FOR SENIORS. (See Greek 180.)

225. LATIN SOUNDS AND FORMS. Yr; 2 cr. Lectures on the history of Latin sounds and forms and their relation to those of other languages, supplemented by reports and class discussion. Offered 1929–30 and in alternate years. Mr. Laird.

226. PROBLEMS IN LATIN SYNTAX. Yr; 1 cr. Introduction to the study of syntax and investigation of specific problems of case, mood, tense, and word order. Open to seniors who wish to do their thesis work in this field. Offered 1929–30 and in alternate years. Mr. Schlicher.

229. ROMAN INSCRIPTIONS AND COINS. Yr; 2 cr. Instruction and practice in the reading of inscriptions, primarily to put the student in contact with the abundant material offered by the *Corpus* and Roman coins for a study of Roman history, religion, and public and private life. About 1,000 coins are available for study. Offered 1929–30 and in alternate years. Mr. Schlicher.

230. LITERATURE OF THE LATE EMPIRE. I; 3 cr. A survey of the two literatures, Pagan and Christian, from the early second century to the fall of Rome. Special studies of Minucius Felix and Apuleius. Offered 1929–30 and in alternate years. Mr. Showerman.

231. LATIN LITERATURE. Yr; 3 cr. Lectures and assigned readings. A minute examination of the authors read. Not offered 1930–31.

233. LATIN SEMINARY. Yr; 2 cr. The work varies from year to year, according to the author or subject taken up. All seminaries, however, deal with the principles of textual criticism, as well as with literary, rhetorical, and historical interpretation. In 1930–31 the subject will be Problems of Roman History, with Mr. Bennett in charge; in 1931–32 the work will be in Tacitus, under direction of Mr. Winspear. 3:30–5:30 Th.

TEACHERS' COURSES

190. BACKGROUND OF HIGH-SCHOOL LATIN. II; 2 cr. Problems of Latin teaching in junior and senior high schools. Lectures, assigned readings, topics, committee reports, discussions, and laboratory work. Prerequisite: Latin 374 or teaching experience. Not offered 1930–31. Miss Guyles.

374. THE TEACHING OF LATIN IN SECONDARY SCHOOLS. I, II; 3 cr. Required of seniors for the teachers' major or minor. Combined with educational practice. Review of subject matter of high-school Latin; discussion of methods and devices for the teaching of junior and senior high-school Latin. Prerequisite: Senior standing. 11 TT. Miss Guyles.

COMPARATIVE LITERATURE

*PHILO MELVIN BUCK, JR., M.A., *Professor of Comparative Literature, Chairman*
FRIEDRICH BRUNS, Ph.D., *Professor of German*
*ROBERT ELKIN NEIL DODGE, M.A., *Professor of English*
ALEXANDER RUDOLPH HOHLFELD, Ph.D., *Professor of German*
*BAYARD QUINCY MORGAN, Ph.D., *Professor of German* (on leave 1930–31)
JULIUS EMIL OLSON, B.L., *Professor of Scandinavian Literature*
JAMES FRANCIS AUGUSTINE PYRE, Ph.D., *Professor of English*
*GRANT SHOWERMAN, Ph.D., *Professor of Classics*
*CASIMIR DOUGLASS ZDANOWICZ, Ph.D., *Professor of French*
JOSEPH LOUIS RUSSO, Ph.D., *Associate Professor of Italian*
HYMAN CHONON BERKOWITZ, Ph.D., *Assistant Professor of Spanish*
PAUL MILTON FULCHER, Ph.D., *Assistant Professor of English*
ROBERT BELL MICHELL, Ph.D., *Assistant Professor of French*
RICARDO BECKWITH QUINTANA, Ph.D., *Assistant Professor of English*
JULIA GRACE WALES, Ph.D., *Assistant Professor of English*
ELSIE PRENTISS BRIGGS, M.A., *Instructor in Comparative Literature*
ARTHUR LLOYD WHEELER, M.A., *Instructor in Comparative Literature*

Courses in comparative literature fall into two general classes: those in which the readings are mainly in English translation, and those in which an easy reading knowledge of one or more foreign literatures is required. Undergraduates majoring in the department must be able to do a portion of this work in at least one language other than English. There is also provision for graduate work in comparative literature, as outlined in the bulletins of the Graduate School. None of the courses in this department is open to freshmen.

MAJOR. A minimum of 30 credits in literature courses, of which at least 16 shall be in the Department of Comparative Literature, including Course 9 and four or more credits from Courses 141, 159, 165, 170–176. The remaining 14 or more credits shall be taken in literature (not language or composition) courses in at least two other departments, including not less than 9 credits in one foreign literature, ancient, Romance, or German. A thesis is required of all majors.

It is further required that the completed work show a degree of continuity; that is to say, the elections will necessarily be in the same or related periods of literary history, or will include the same or similar literary

* Member of committee in charge.

types. For the same reason the student is advised to elect also corresponding courses in history, philosophy, or art. The exact grouping of courses for a major will be determined individually for each student. But to make more clear this purpose to coordinate the work in literature and the other related studies, the two following typical correlations are suggested:

1. An ancient and a modern literature. Minimum requirement in language, to begin with (unless the student is prepared to take a more advanced course): Latin 6; or Greek 10 or 7; or English, literature courses beyond 30 or 33; or French 21; or German 20 (except for students of exceptional ability who may, with special permission from the chairman, take an earlier course); or Italian, Dante; or Spanish 21.

For his other courses the student may select some period, e.g., the 17th century, or the 19th, or some literary type, such as lyric poetry, the drama, or the novel, and correlate the work, so far as practicable, in both the language departments. In Comparative Literature the student will similarly take courses in a comparative study of the drama, novel, poetry, or in a special period.

For the related courses, he should take ancient history, ancient philosophy, and ancient art (offered in the Department of Classics), as well as the history, philosophy, and art of the period in modern Europe in which he is interested. For example, for a study of the 17th and 18th centuries there are courses in the history of modern Europe, especially History 177, and Philosophy 135, 136, Descartes to Hume; for the Renaissance, medieval history and history of the Renaissance. The art courses are self-explanatory.

2. Two modern literatures. For this the selection will be made from English, French, German, Italian, or Spanish literature as outlined above, and from modern history, philosophy, and art, according as he finds his interest draws him to some definite period or some literary type.

In any of the possible coordinations of his work the Department of Comparative Literature asks the student so to plan his studies that in his senior year he can do a piece of original work in which the result of this survey of a period or related periods will be manifest. The student, if he has the ability, can register for such original work in addition to the thesis, for which purpose the proseminary (151) is designed.

9. MASTERPIECES OF WORLD LITERATURE IN TRANSLATION. Yr; 3 cr. Homer to Whitman and Tolstoi. A study of the tradition of literature. Prerequisite: Sophomore standing. 9 MW or 9 TT and one additional hour. Mr. Buck, Miss Briggs, Mr. Wheeler.

10. CLASSICAL MYTHOLOGY. I; 1 or 2 cr. Prerequisite: Full sophomore standing. Latin not essential. Not offered 1930–31.

48. THE LITERARY ASPECTS OF THE ENGLISH BIBLE. I; 3 cr. 10 MWF. Miss Wales.

50. FRENCH MASTERPIECES IN TRANSLATION. Yr; 2 cr. (See French and Italian.) 10 TT. Mr. Michell.

53. ITALIAN MASTERPIECES IN TRANSLATION. Yr; 2 cr. Offered 1930–31 and in alternate years. (See French and Italian.) 10 TT. Mr. Russo.

55. SPANISH AND PORTUGUESE MASTERPIECES IN TRANSLATION. Yr; 2 cr. 9 TT. Mr. Berkowitz. (See Spanish.)

67. CONTEMPORARY DRAMA. Yr; 2 cr. Offered 1929–30 and in alternate years. In translation. 11 TT. Mr. Pyre.

68. CONTEMPORARY NOVEL. Yr; 2 cr. The English, Continental, and American novel, 1875–1927, in translation. Offered 1930–31 and in alternate years. Mr. Fulcher.

74. IBSEN'S *BRAND* AND *PEER GYNT*. I; 2 cr. Lectures and readings in English, with a general survey of Norse literature, ancient and modern. 1:30 TT. Mr. Olson.

75. GERMAN CLASSICS IN TRANSLATION. Yr; 2 cr. Not offered 1930–31. (See German.) Mr. Hohlfeld.

102. RENAISSANCE EPIC. II; 2 cr. The epic form after Virgil; Ariosto, Tasso (in translation); Spenser, Milton. Offered 1930–31 and in alternate years. Mr. Dodge.

112. GENERAL SURVEY OF CLASSICAL LIFE AND LETTERS. Yr; 1–3 cr. In translation. Offered 1930–31 and in alternate years. (See Classics.) 9 MWF. Mr. Showerman.

141. PRINCIPLES AND PRACTICE OF TRANSLATION. II; 1 or 2 cr. For students with advanced training in French, German, Italian, or Spanish. Lectures on the principles of translation; detailed criticism of various types of translated material; original exercises in translation. The second credit is earned by a topic. Offered 1929–30 and in alternate years. Mr. Morgan.

151. PROSEMINARY. Yr; *cr. Individual studies made by students under the direction of the instructor. Thesis students and others wishing to do original work will register for this course. Mr. Buck.

165. LITERARY CRITICISM. Yr; 3 cr. The search for a critical theory. One foreign language required, except for English majors. 10 MWF. Mr. Buck, Mr. Wheeler.

170. LITERARY TYPE: TRAGEDY. Yr; 2 cr. A critical study. At least one foreign language required. Offered 1930–31 and in alternate years. Mr. Buck.

171. LITERARY TYPE: COMEDY. Yr; 2 cr. A critical study. At least one foreign language required. Offered 1929–30 and in alternate years. 2:30 TT. Mr. Buck.

172. LITERARY TYPE: LYRIC POETRY. II; 2 cr. German required. Not offered 1930–31. Mr. Bruns.

176. THE ROMANTIC MOVEMENT IN FRANCE, GERMANY, AND ENGLAND. Yr; 2 cr. From Rousseau to Goethe and Chateaubriand. Ability to read German and French necessary. Not offered 1930–31. Mr. Buck.

177. RENAISSANCE SATIRE. I; 3 cr. Offered 1929–30 and in alternate years. 10 MWF. Mr. Quintana.

201. SEMINARY IN LITERARY CRITICISM. Yr; *cr. Mr. Buck.

250. THE RENAISSANCE IN ROMANCE COUNTRIES. Yr; 2 cr. A study of the development of the Renaissance spirit, especially in France. Offered 1929–30 and in alternate years. Mr. Zdanowicz.

DRAWING

The courses listed under this heading are offered either by the Department of Drawing and Descriptive Geometry in the College of Engineering or by the Department of Industrial Education and Applied Arts in the School of Education. Starred courses (★) do not count toward the 120 credits required for graduation from the general courses in the College of Letters and Science.

1. ELEMENTS OF MECHANICAL DRAWING. I, II; 3 cr. Lab. fee $1.00. Mr. Orth and staff.

2. ELEMENTS OF MECHANICAL DRAWING. II; 3 cr. Prerequisite: Drawing 1. Lab. fee $1.00. Mr. Orth and staff.

3. DESCRIPTIVE GEOMETRY. I, II; 3 cr. Prerequisite: Drawing 2. Mr. Millar and staff.

★7a. FREEHAND LETTERING. I, II; 1 or 2 cr. Construction and composition of Classic Roman capitals, lower-case letters, English Gothic, black letter, and modern script. Special emphasis given to the choice of lettering styles in advertising design. 8–10 TT. Mr. Doke.

★7b. ADVANCED FREEHAND LETTERING. I, II; 1 or 2 cr. Prerequisite: Drawing 7a. 10–12 TT. Mr. Doke.

★18. ARCHITECTURAL DRAWING. II; 3 cr. Prerequisite: Drawing 1. 10–12 MWF. Mr. Friese.

50. FREEHAND DRAWING AND PERSPECTIVE. I; 3 cr. Open to freshmen. Lab. fee $1.25. 3 sections. Miss Williams.

51. FREEHAND DRAWING; LIGHT AND SHADE. II; 3 cr. Prerequisite: Drawing 50. Lab. fee $2.75. 3 sections. Miss Williams.

55. ADVANCED DRAWING AND ANATOMY. Yr; 2 or 3 cr. Prerequisite: Drawing 51 or consent of instructor. Lab. fee $4.00 per semester. 1:30–3:30 TT. Mr. Stebbins.

★57. MECHANICAL PERSPECTIVE AND ARCHITECTURAL RENDERING. II; 3 cr. Prerequisites: Drawing 1, 18, and 50. Lab. fee $2.00. 8–10 MWF. Miss Wilson.

ECONOMICS

WILLIAM HENRY KIEKHOFER, Ph.D., *Professor of Economics, Chairman*
JOHN ROGERS COMMONS, M.A., LL.D., *Professor of Economics*
FAYETTE HERBERT ELWELL, B.A., C.P.A., *Professor of Accounting*
MARTIN GUSTAV GLAESER, Ph.D., *Professor of Economics*
CHARLES LASELLE JAMISON, Ph.D., *Professor of Business Administration*
HARRY JEROME, Ph.D., *Professor of Economics*
CHESTER LLOYD JONES, Ph.D., *Professor of Economics and Political Science*
BENJAMIN HORACE HIBBARD, Ph.D., *Professor of Agricultural Economics*
DON DIVANCE LESCOHIER, Ph.D., *Professor of Economics*
PRESTON ESSEX MCNALL, M.S., *Professor of Agricultural Economics*
SELIG PERLMAN, Ph.D., *Professor of Economics*
WILLIAM AMASA SCOTT, Ph.D., LL.D., *Professor of Economics*
HENRY ROSCOE TRUMBOWER, Ph.D., *Professor of Economics*
GEORGE SIMON WEHRWEIN, Ph.D., *Professor of Agricultural Economics*
ROBERT RAY AURNER, Ph.D., *Associate Professor of Business Administration*
DONALD ROSS FELLOWS, M.A., *Assoc. Professor of Business Administration*
HENRY HARRISON BAKKEN, M.S., *Asst. Professor of Agricultural Economics*
PHILIP GORDER FOX, M.A., *Assistant Professor of Business Administration*
JOHN CURRIE GIBSON, B.A., C.P.A., *Assistant Professor of Accounting*
HAROLD MARTIN GROVES, Ph.D., *Assistant Professor of Economics*
IRENE ANITA HENSEY, M.A., *Assistant Professor of Accounting*
WALTER ALBERT MORTON, Ph.D., *Assistant Professor of Economics*
MARGARET PRYOR, Ph.D., *Assistant Professor of Economics*
PAUL A. RAUSHENBUSH, M.A., *Assistant Professor of Economics*
ARTHUR J. ALTMEYER, M.A., *Lecturer in Economics*
BENJAMIN S. BEECHER, M.A., *Lecturer in Economics*
ALFRED PAUL HAAKE, Ph.D., *Lecturer in Economics*
EDWIN EMIL WITTE, Ph.D., *Lecturer in Economics*
RUSSELL BAUGH, M.A., *Instructor in Economics*
ELIZABETH BRANDEIS, Ph.D., *Instructor in Economics*
ALMA LOUISE BRIDGMAN, M.A., *Instructor in Economics, Executive Secretary*
CAREY K. GANONG, M.A., *Instructor in Economics*
MARVIN ARNOLD SCHAARS, M.S., *Instructor in Agricultural Economics*

MAJOR

For a major in economics thirty credits are required, including the following: eight credits in Economics 1a and 1b, three credits in Economics 30; for upper-group students four credits of thesis and fifteen additional credits; for lower-group students nineteen additional credits. These additional credits shall be selected in conference with the major adviser. Students must earn as many grade-points as credits in the work of the major in order to be eligible for graduation. Courses marked by a star may not be included in this minimum and, if elected, must be taken in addition to the 120 credits required for graduation from the College of Letters and Science.

The thesis, which is required of upper-group students, may be written in any one of the fields designated in Fields II–X as described on subsequent pages. A minimum of two related courses in the field selected is required as a background for the thesis. Lower-group students, i.e., students who fail to earn fifty per cent more grade-points than credits, are barred from writing a thesis and from rights and privileges as to courses which upper-group status confers. Such students must, however, offer three courses in any one of the fields of concentration, II–X, into which the work of the department is divided.

INDEPENDENT READING AND RESEARCH

Upper-group students who major in economics and who have done distinctly superior work may undertake special work outside of regular class instruction. Assignments will be made by professors in charge of the various fields and conferences will be held on such assigned work. An examination will be held toward the end of the junior year on such independent work as shall have been assigned for that year. Toward the end of the senior year there will be a general examination which will include general economics, the field of special concentration, and the independent work done under assignments in Economics 180. Upon recommendation of the Department, honors in the major may be granted at graduation to any student who has passed such examinations with distinction.

APPLICATION OF ECONOMICS TO SPECIAL COURSES

SCHOOL OF COMMERCE

PROFESSOR CHESTER LLOYD JONES, DIRECTOR

The importance of professionally trained men and women for business was recognized in the establishment of the Course in Commerce in 1900. The Course has now become the School of Commerce with work extending over three years, the junior, senior, and first graduate years, and consisting in large part of courses offered by the Department of Economics. See pages 76–79 of this announcement and the special bulletin of the School of Commerce for details.

INDUSTRIAL RELATIONS

PROFESSOR J. R. COMMONS IN CHARGE

The Department of Economics, in cooperation with the Industrial Commission of Wisconsin, has arranged a sequence of courses preparing students for positions as employment managers with business concerns, or for positions as factory inspectors, statisticians, special investigators with state and federal departments concerned with industrial labor, and employment agents in state and federal employment service.

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

Before or after taking these courses the student must demonstrate his personality and fitness by serving for a time, usually at his own expense, as an assistant to a recognized industrial service manager in an establishment carrying on this work. Employers in such establishments are usually willing to furnish this opportunity to properly recommended applicants. The time and expense needed to get this practical experience will depend on the individual. Persons desiring to register for this apprenticeship may do so with the Secretary of the Industrial Commission, Madison.

A list of suggested courses follows:

SOPHOMORE YEAR

First Semester	Credits	Second Semester	Credits
Econ. 1a—General economics	4	Econ. 1b—General economics	4
Psych. 1—Introductory psychology	3	Psych. 1—Introductory psychology (rep.)	3
		Phys. Ed. 16—First aid to the injured	1

JUNIOR AND SENIOR YEARS

Econ. 30—Economic statistics	3	Econ. 30—Economic statistics (repeated)	3
Econ. 122—Labor problems	3	Econ. 132—Statistical analysis of business cycles	3
Econ. 119—Evolution of industry	3	Econ. 145—American labor history	3
Econ. 123—Labor legislation	3	Econ. 148—Foreign labor movements	3
Pol. Sci. 112—Introduction to constitutional law	3	Sociol. 140—Principles of sociology	3
Econ. 131—Wages and prices	3	Econ.. 172—Immigration and race problems	3
Sociol. 141—Poverty and relief	3	Econ. 144—Capitalism and socialism	3
Econ. 174—The labor market	3		

SPECIAL COURSES

Educ. 154—Job and occupational analysis	2	Educ. 244—Test construction	2
Psych. 115—Vocational aptitude tests	3	Ecod. 171—Labor management	3
Speech 25—Correction of speech disorders	3	Ind. Ed. 155—Employe and leadership training problems	2
Educ. 244—Test construction	2	Speech 25—Correction of speech disorders (repeated)	3
Shop work	1–3	Shop work	1–3
Econ. 100—Thesis in labor legislation, labor problems, labor history, labor market, industrial management	2	Econ. 121—Property insurance	2
		Econ. 100—Thesis	2

LAND ECONOMICS

PROFESSOR G. S. WEHRWEIN IN CHARGE

Realizing that the proper utilization and development of our land resources—agricultural, forest, mineral, and urban—constitute one of the most important problems of society, courses in land economics dealing with the public and private aspects of land are offered. Land economics in its public aspects is concerned with public policies in utilization of lands, as, for instance, the public domain, reforestation, taxation, zoning, and city and regional planning. In its private aspects it deals with the problems of the land owner, such as the selection of land for agricultural, commercial, or residential purposes, the principles underlying the economic use of land, tenure relationships, and the appraisal of land values.

These courses are of interest to every property owner and especially to those who are looking forward to entering the real estate profession, city planning, or research and teaching in land economics.

AGRICULTURAL ECONOMICS

PROFESSOR B. H. HIBBARD IN CHARGE

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 and social 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.

COURSES OF INSTRUCTION IN ECONOMICS

I. ECONOMIC THEORY

1a. GENERAL ECONOMICS. I, II; 4 cr. Fundamental economic principles and the problems of modern economic society; production; the modern exchange system; value and price. Prerequisite: Full sophomore standing. I, lecture 9 TT; II, lecture 9 MW; two hours discussion. Mr. Kiekhofer and staff.

1b. GENERAL ECONOMICS. I, II; 4 cr. Distribution, consumption, public finance, economic policies and politics. Prerequisite: Economics 1a. I, lecture 9 MW; II, lecture 9 TT; two hours discussion. Mr. Kiekhofer and staff.

18. ECONOMIC INSTITUTIONS. I, II; 3 cr. Social control of business in the United States. Basic present institutions, property, contract, etc. Governmental and other working rules regulating economic relations and behavior. Need for and objectives of such social control; extent, types, possibilities, limits. Prerequisite: Economics 1b. 11 MWF. Mr. Raushenbush.

19. ECONOMIC HISTORY OF THE UNITED STATES. II; 3 cr. Development of agriculture, industry, commerce, and transportation from colonial times to the present. Growth in size and complexity of economic and business units. Problems raised by economic evolution in the United States. Prerequisite: Economics 1a. 11 MWF. Miss Brandeis.

101. CURRENT ECONOMIC PROBLEMS. Yr; 3 cr. Selected economic problems of general current interest and importance, including such questions as mechanization of industry, tariff, reparations, inter-allied debts, unemployment, contemporary merger tendencies, socialization of industry. Prerequisite: Consent of instructor. 7 TT. Mr. Baugh.

143. PUBLIC VALUE. Yr; 2 cr. Legal and economic history. Development of custom and common law relative to economic changes. Prerequisite: Sênior standing. 4–6 Tu. Mr. Commons.

150. ECONOMIC THEORY. Yr; 2 cr. General survey of economic theory for first-year graduate students who wish to improve their grasp of basic principles. Prerequisite: Consent of instructor. 9 TT and third hour. Mr. Kiekhofer, Miss Pryor.

173. THE ECONOMICS OF CONSUMPTION. I, II; 3 cr. Position of the consumer in modern economic life with special reference to selling methods, tariffs, credits, and relative costs of basic services, such as medicine. Prerequisites: Economics 1b and consent of instructor. 10 TT and third hour. Miss Pryor.

180. INDEPENDENT READING IN ECONOMICS. Yr; *cr. Reading may be in any field for which student has an adequate background. Prerequisite: Candidacy for degree with honors in major. Students electing this work will be expected to pass comprehensive examinations on the field of their major. Staff.

201. DEVELOPMENT OF ECONOMICS. Yr; 2 cr. Development of the classical political economy; its critics; attempts at reconstruction; recent trends. Prerequisites: Economics 1b and graduate standing. 10 TT. Mr. Scott.

210. VALUE AND VALUATION. Yr; 2 cr. Presuppositions of economic theory. Theories of reasonable value. Applications to present-day problems. 4–6 Th. Mr. Commons.

218. ECONOMIC INSTITUTIONS. I; 3 cr. Institutional organization of economic activity. The development of fundamental economic institutions, such as property, contract, associations. Discussion of specific works which illustrate the institutional method of treating economic problems. 3:30 MW. Mr. Glaeser.

250. SEMINARY IN ECONOMIC THEORY. Yr; 2 cr. Critical discussion of debatable topics in the field of economic theory, together with the presentation of seminary papers and reports on controversial questions that have been investigated. Prerequisites: Graduate standing and consent of instructor. 10–12 W. Mr. Kiekhofer.

280. READING AND RESEARCH IN ECONOMICS. Yr; *cr. Both during the regular session and in the inter-session periods individual work suited to the needs of graduate students may be arranged. Prerequisite: Advanced graduate standing. Staff.

II. AGRICULTURAL ECONOMICS

107. FARM COST ACCOUNTING. II; 2 cr. Methods of distributing the various items of cost among the farm enterprises, and principles determining the use of the different methods. Prerequisite: Agr. Econ. 8 or equivalent. 1:30–3:30 TT. Mr. McNall.

127. COOPERATIVE MARKETING. II; 2 cr. The business structure, scope, purpose, and policies of cooperative corporations, and their contribution to agriculture. Prerequisite: Economics 128 or concurrent registration. 11 TT. Mr. Schaars.

128. MARKETING AGRICUTURAL PRODUCTS. II; 3 cr. Current marketing problems in agriculture with emphasis upon the principles and practices of marketing agencies and their relations. Prerequisite: Economics 1a. 10 MWF. Mr. Schaars.

152. FARMER MOVEMENTS. I; 2 cr. History of the efforts of farmers to better their economic condition by forming general, even nation-wide, organizations designed to control markets and influence legislation, in the interest of fairness. Prerequisite: Agr. Econ. 1. 8 TT. Mr. Hibbard.

229. ADVANCED AGRICULTURAL ECONOMICS. Yr; 2 cr. The field of agricultural economics with respect to its origin and the main issues around which the thinking of those interested in agriculture revolves. Prerequisite: Agr. Econ. 1 or Econ. 1a. 8 MW. Mr. Hibbard.

III. ACCOUNTING

★8a. ELEMENTS OF ACCOUNTING. I, II; 3 cr. Principles of double-entry bookkeeping. The use of the fundamental books, the treatment and proper statement of sole proprietorship, partnership, and corporation accounts. Prerequisite: Junior standing. Lab. fee $1.50. I, lecture 11 Th., lab. 10–12 MWF; II, lecture 11 Tu., lab. 1:30–3:30 MWF. Mr. Gibson, Miss Hensey, Miss Lins.

★8b. ELEMENTS OF ACCOUNTING. I, II; 3 cr. The theories of general financial accounting with problems illustrating their application. Particular attention to the preparation and analysis of profit and loss statements and balance sheets. Prerequisites: Economics 8a and Mathematics 7. Lab. fee $2.50. I, lecture 11 Tu., lab. 1:30–3:30 MWF; II, lecture 11 Th., lab. 10–12 MWF. Mr. Elwell, Mr. Gibson, Miss Hensey, Miss Lins.

181. ADVANCED ACCOUNTING PROBLEMS. I; 2 cr. Theories underlying advanced financial accounting with problems illustrating their application. The more important subjects are amortization, capitalization, accounts of receivers and bankrupts, statements of affairs and deficiency accounts, real estate development accounts, executors' accounts. Prerequisite: Minimum grade of C in Economics 8b. Lab. fee $1.50. 8–10 MW. Mr. Elwell, Mr. Gibson.

182. COST ACCOUNTING. I; 2 cr. Theories underlying cost accounting, its relationship to financial books, accounting for materials, labor and indirect expense, and treatment of selling and administrative expenses. Prerequisite: Minimum grade of B in Economics 8b. Lab. fee $1.50. 8–10 TT. Mr. Gibson.

183. ACCOUNTS OF CONSOLIDATIONS AND INCOME TAXES. II; 2 cr. Accounts of amalgamations, mergers, and holding companies; consolidated balance sheets and profit and loss statements. Study of, and problems based upon, the federal and Wisconsin income tax laws. Prerequisite: Minimum grade of B in Economics 8b. Lab. fee $1.50. 8–10 TT. Mr. Gibson.

184. AUDITING. II; 2 cr. The general principles of auditing, including a detailed study of different kinds of audits, the preparation of reports, and the consideration of special points in different classes of audits. Prerequisite: Minimum grade of C in Economics 8b. Lab. fee $1.50. 8–10 MW. Mr. Elwell.

185. ANALYSIS OF FINANCIAL REPORTS. I; 1 cr. Analysis of corporation reports with particular reference to statement structure, meaning of accounts, and ratios. Prerequisite: Minimum grade of C in Economics 8b. 9 F. Mr. Elwell.

186. ACCOUNTING SYSTEMS. II; 2 cr. The general principles of constructive accounting and the designing of systems for various industries. Each student must design a complete and practicable accounting system for some industry. Prerequisites: Upper-group status and minimum grade of B in Economics 8b. 10 TT. Mr. Elwell.

★ In the College of Letters and Science this course may be counted as part of the credits required for graduation only by students in the School of Commerce and in the Chemistry–Commerce Course.

187. GOVERNMENTAL ACCOUNTING. I; 2 cr. The requirements of accounting systems of governmental units, federal, state, county, and municipal. Special study of budgets and reports. Prerequisites: Upper-group status and minimum grade of B in Economics 8b. 10 TT. Mr. Elwell.

208. ACCOUNTING PRINCIPLES. I; 2 cr. An introductory course in accounting, open only to graduate students not enrolled in the School of Commerce. More attention is given to the theory of the subject than to the technique. Prerequisite: Graduate standing. 10–12 M. Mr. Elwell.

283. SEMINARY IN ACCOUNTING. Yr; 2 or 4 cr. Graduate students conduct and report upon researches on various accounting problems; in addition, lectures and assignments on advanced accounting topics. Prerequisites: Graduate standing and consent of instructor. 3:30–5:30 Tu. Staff.

314. THE TEACHING OF BOOKKEEPING. II; 2 cr. The topics suitable for a high-school course in bookkeeping are discussed from the standpoint of the proper order and method of presentation to students of high-school grade. Prerequisites: Senior standing and Economics 8b. 2:30 TT. Miss Hensey.

IV. BUSINESS ADMINISTRATION

★★6. BUSINESS LETTER WRITING. I, II; 2 cr. The writing of effective business letters, with emphasis upon basic plan, underlying tone, the essential qualities of each important type. Divisions treated: requests, acknowledgments, adjustments, collections, applications, sales, mailing lists, and business reports. Prerequisite: Junior standing. 10 Th; one hour discussion. Mr. Aurner.

★11. BUSINESS MANAGEMENT. I, II; 2 cr. Problems of business administration; basic functions of design, production, personnel, finance, purchasing, selling, and record keeping, and their place in the business structure. Prerequisites: Economics 1b and junior standing. 9 Tu; one hour discussion. Mr. Haake.

★13. MARKETING METHODS. I, II; 3 cr. Activities of producer, wholesaler, and retailer in the distribution of goods to the consumer, including presentation of how efficient advertising and selling reduce distribution costs. Prerequisite: Junior standing. 9 M; two hours discussion. Mr. Fellows.

★14. SALES ADMINISTRATION. II; 2 cr. Purpose, development, and scope of personal selling from the standpoint of the sales executive; discussion of methods of selecting, training, and paying salesmen. Prerequisite: Economics 13. 2:30 TT. Mr. Fellows.

★ In the College of Letters and Science this course may be counted as part of the credits required for graduation only by students in the School of Commerce and in the Chemistry–Commerce Course. Economics 11 also counts in the Chemistry Course.

★★ May be taken for credit only by students in a technical course, by seniors preparing to teach the subject, or by students who have taken English 2a or 2b.

*15. PRINCIPLES OF ADVERTISING. I; 2 cr. An introductory course in advertising including an explanation of its importance in the distribution of consumers' goods. Description of the various methods of advertising and the development of copy and layout of the complete advertisement are presented. Prerequisite: Junior standing. 8 Tu and discussion. Mr. Fellows, Mr. Aurner.

*16. ADVERTISING CAMPAIGNS. II; 2 cr. Principles and practice of advertising procedure with special reference to national campaigns. Among topics considered are mail order, farm paper, trade paper, direct mail, magazine, and newspaper campaigns. Prerequisites: Economics 13 and 15. 3:30 TT. Mr. Aurner, Mr. Fellows.

*17. MERCHANDISING. I; 2 cr. Principles and problems in retail store management with attention to consumer habits; store organization; buying, planning, and control; expense distribution; sales promotion; personnel administration; and store operation. Prerequisite: Economics 13. 2:30 TT. Mr. Aurner.

211. SEMINARY IN BUSINESS ASSOCIATIONS. Yr; 2 cr. Economic and legal aspects of business associations. Conducted jointly with the Law School. Prerequisite: Consent of instructor. 7–9 Th. Mr. Jamison.

213. SEMINARY IN THE MARKETING OF MANUFACTURED GOODS. Yr; 2 cr. Studies in advertising, sales promotion, and merchandising activities necessary in the distribution of manufactured commodities from producer to consumer. Constructive marketing problems are worked out from current business procedure. 11–12:30 M. Mr. Fellows, Mr. Aurner.

V. FINANCE

5. MONEY AND BANKING. I, II; 3 cr. Monetary and banking principles and practice; price theories; banking systems and their operation. Prerequisite: Economics 1a. Lecture 9 F; two hours discussion. Mr. Scott and staff.

103. PUBLIC EXPENDITURES AND TAX DISTRIBUTION. II; 2 cr. The tax system as a whole; shifting and incidence; public expenditures; the public debt. Prerequisite: Economics 124 or consent of instructor. Lab. fee $1.00. 11 TT. Mr. Groves.

110. PRO-SEMINARY IN INVESTMENTS. II; 2 cr. Criteria of an ideal investment; types of securities; investment institutions; valuation of securities; investment theory and practice. Prerequisites: Economics 137, senior standing, upper-group status, and consent of instructor. 11 TT. Mr. Kiekhofer.

124. TAXATION. I, II; 3 cr. Specific taxes which make up the national, state, and local systems with special emphasis upon the practical social problems involved. Prerequisite: Economics 1b. Lab. fee $1.00. 8, 11, or 2:30 MWF. Mr. Groves.

* In the College of Letters and Science this course may be counted as part of the credits required for graduation only by students in the School of Commerce and in the Chemistry–Commerce Course. Economics 15 and 16 also count in the School of Journalism.

137. BUSINESS FINANCE. I, II; 3 cr. The internal administration of the financial function dealing with sources of capital, the handling of incoming and outgoing funds, and the most efficient utilization of capital. Prerequisite: Economics 1b. 10 F and two hours discussion. Mr. Jamison, Mr. Ganong.

151. LATIN AMERICA. I, II; 3 cr. The economic development and foreign trade of Latin America, with emphasis on the stabler republics. The outlook for increased foreign trade and investment. Prerequisite: Economics 1b. 11 MWF. Mr. Jones.

154. RISK AND PROFIT. I; 3 cr. Nature and sources of risk and profit in business and industry; the price system, its functions and defects; financial aspects of business cycles; business forecasting; the stock market. Prerequisite: Minimum grade of C in Economics 1b. 10 MWF. Mr. Morton.

191. THE CREDIT SYSTEM. II; 3 cr. Financial institutions from the private and public viewpoints. Commercial banking, functions and operations, profits, loans, discounts, investments, and deposits. Federal Reserve operations, discount and open market policies. Prerequisite: Minimum grade of C in Economics 5. 9 MWF. Mr. Morton.

205. SEMINARY IN PRIVATE FINANCE. Yr; 2 cr. Subject for 1930–31: Monetary and banking theory. 2:30–4:10 F. Mr. Scott.

224. SEMINARY IN PUBLIC FINANCE. Yr; 2 cr. Subject for 1930–31: The Wisconsin tax system. Prerequisites: Graduate standing and Economics 124 or consent of the instructor. 7:30–9:30 Tu. Mr. Groves.

237. SEMINARY IN BUSINESS FINANCE. Yr; 2 cr. Analysis of investment securities. Prerequisite: Consent of instructor. 3:30–5:30 W. Mr. Jamison.

251. SEMINARY IN LATIN-AMERICAN DEVELOPMENT AND TRADE. Yr; 2 cr. Subject for 1930–31: The development of the production of staple products in Latin America. Foreign investments in government securities and local enterprises. Changes in the course of foreign trade. 4–6 Tu. Mr. Jones.

253. SEMINARY IN INTERNATIONAL FINANCE. I; 2 cr. Foreign trade, foreign exchange, foreign investments including international debts and reparations, tariff policies. Prerequisite: Training in both private and public finance, and consent of instructor. Open on same terms to senior majors with upper-group status. 10–12 M. Mr. Kiekhofer.

VI. INSURANCE

121. PROPERTY INSURANCE. II; 2 cr. Major principles and practices of the various forms of miscellaneous insurance: Fire, marine, automobile, corporate bonding, fidelity, windstorm, burglary and theft, public liability, hail, plate glass, steam boiler, etc. Prerequisite: Economics 1a. 1:30–3:30 M. Mr. Beecher.

138. LIFE INSURANCE. I; 2 cr. A study of the economic function of life insurance through an analysis of its principles and practices. Mortality tables, premium rates, policy forms, investments, accounting practices, legal principles, organization forms, state supervision. Prerequisite: Economics 1a. 1:30–3:30 M. Mr. Beecher.

VII. LABOR

119. EVOLUTION OF INDUSTRY. I; 3 cr. The development of industrial society viewed in its technological, marketing, and institutional aspects. A consideration of the several theories of industrial evolution. Prerequisite: Economics 1b. 9 MW; one hour discussion. Mr. Perlman.

122. LABOR PROBLEMS. I; 3 cr. A comparison of the typical psychologies of the business group and of the labor groups. Types of unionism. The structure and policies of unionism. "Welfare capitalism" and unionism. Prerequisite: Economics 1b. 10 MW; one hour discussion. Mr. Perlman.

123. LABOR LEGISLATION. I; 3 cr. State activity in relation to labor; legal status of trade unions; operation of protective legislation dealing with hours, child labor, workmen's compensation. Special reference to Wisconsin statutes and their administration. Prerequisite: Economics 1b. 8 MWF. Miss Brandeis, Mr. Altmeyer, Mr. Witte.

131. WAGES AND PRICES. I; 3 cr. Analysis of wage and cost of living trends, and forces governing wage movements in this and foreign countries. Various theories of wages tested with actual wage facts. Prerequisites: Senior standing, Economics 1b and 30. 9 TT and third hour. Mr. Lescohier.

144. CAPITALISM AND SOCIALISM. II; 3 cr. Capitalism, unionism, socialism, and individualistic anti-capitalism, each viewed under the headings of conditions, theories, and movements. Prerequisite: Economics 1b. 9 MW; one hour discussion. Mr. Perlman.

145. AMERICAN LABOR HISTORY. II; 3 cr. The American labor movement viewed as an historical experiment with the temper of the American community, the country's political and legal institutions, and the psychology of labor itself. Prerequisite: Economics 1b. 10 TT; one hour discussion. Mr. Perlman.

171. PERSONNEL MANAGEMENT. II; 3 cr. Study of the handling of labor relations by industrial and commercial concerns. Industrial government, employment management, scientific management, wage policies, accident prevention, industrial hygiene, profit-sharing, pensions, and similar topics. Prerequisite: Economics 1b or a major in industrial education or engineering. 11 TT; one hour discussion. Mr. Lescohier.

172. IMMIGRATION AND RACE PROBLEMS. II; 3 cr. Migrations of mankind in modern times. Particular attention to American immigration. Governmental immigration policies; economic, social, and political immigration problems, race problems. Prerequisites: Econ. 1a or American history, and junior standing. 9 TT; one hour discussion. Mr. Lescohier.

174. THE LABOR MARKET. I; 3 cr. An analysis of problems centering around employment and unemployment, business cycles, seasons, technological evolution, basic changes in industrial structure, relief and prevention of unemployment, unemployment insurance. Prerequisite: Economics 1b. 11 TT; one hour discussion. Mr. Lescohier.

265. SEMINARY IN LABOR AND INDUSTRY. Yr; 2 cr. A research seminary pursuing the object of preparing a comprehensive history of labor in the United States, 1896 to date. 4–6 W. Mr. Commons, Mr. Lescohier, Mr. Perlman, Miss Brandeis.

VIII. LAND ECONOMICS

117. OUTLINES OF LAND ECONOMICS. I; 3 cr. Principles underlying land classification, characteristics, relation to population, tenure, settlement, and policies. Prerequisite: Economics 1b. 9 MWF. Mr. Hibbard.

179. URBAN LAND ECONOMICS. II; 3 cr. Urbanization, the location and structure of cities, the principles underlying urban land utilization, home ownership and tenancy, housing and credit, zoning, city and regional planning. Prerequisite: Economics 1b. 11 MWF. Mr. Wehrwein.

221. LAND INCOME. II; 2 cr. The characteristics of land as a factor of production, spatial element of land, economics of land utilization, theories of rent, principles of land valuation and taxation. 1:30 MW. Mr. Wehrwein.

226. SEMINARY IN LAND PROBLEMS. Yr; 2 cr. Land tenure of the principal countries studied in a two-year cycle: tenure in new countries including the United States (1929–1930); land tenure in countries with a feudal heritage (1930–1931). Prerequisites: Economics 117, Economics 229, or concurrent registration. 7:30 M. Mr. Hibbard, Mr. Wehrwein.

IX. PUBLIC UTILITIES

135. RAILWAY TRANSPORTATION. I; 2–3 cr. History and development of railway transportation and regulation in the United States. Prerequisite: Economics 1b. 9 MWF. Mr. Trumbower.

136. TRANSPORTATION PROBLEMS. II; 3 cr. Survey and analysis of present day problems relating to railway transportation, development of waterways, and air transport. Prerequisite: Economics 1b. 11 MWF. Mr. Trumbower.

142. PUBLIC UTILITIES. I, II; 3 cr. The development of public utilities in the United States. Financial and corporate structure. Legal basis of public utility regulation. Development of regulatory agencies, franchises, administrative commissions, contractual arrangements. Valuation, depreciation, security issues and rates of return. Public ownership. Prerequisite: Economics 1b or consent of instructor. Lecture 8 M; two discussions. Mr. Glaeser.

168. HIGHWAY TRANSPORTATION. I; 3 cr. Economic aspects of highway development, financing of highway construction, supervision of motor vehicle traffic, and regulation of highway common carriers. Prerequisite: Economics 1b. 11 MWF. Mr. Trumbower.

189. RAILWAY RATES AND TRAFFIC. II; 2–3 cr. Freight rate structure, adjustment of rates by the Interstate Commerce Commission, traffic control and management. Prerequisite: Economics 1b. 9 MWF. Mr. Trumbower.

195. PUBLIC UTILITY MANAGEMENT. II; 3 cr. Survey of management problems of local utilities; accounting and statistical controls; economics of regulated monopoly price, cost analyses and differential rates; service and labor problems; standards of operating efficiency. Prerequisite: Economics 142. 1:30 M, 1:30–3:30 W. Mr. Glaeser.

266. SEMINARY IN PUBLIC UTILITIES. Yr; 2 cr. Research investigations in the field of local public utilities and transportation. Prerequisite: Graduate standing or senior standing with consent of instructor. 3:30–5:30 W. Mr. Glaeser, Mr. Trumbower.

X. STATISTICS

30. ECONOMIC STATISTICS. I, II; 3 cr. Sources of statistical data, tabulation, charting, averages, dispersion, sampling, index numbers, trends, seasonal variation, economic cycles, correlation. Prerequisites: Economics 1a and major in economics. Lab. fee $1.50. I, lecture, 9 Th; II, lecture, 1:30 Th; 4 hours lab. and discussion. Mr. Jerome and staff.

31. BUSINESS STATISTICS. I, II; 3 cr. Elementary theory and technique of statistical methods, with application to typical problems of business organizations. Prerequisites: Economics 1a and registration in the School of Commerce. Lab. fee $1.50. Lecture 9 W; 4 hours lab. and discussion. Mr. Fox and staff.

130. STATISTICAL METHODS. I; 3 cr. The elementary principles and technique of the quantitative method in the analysis of social and economic phenomena: the collection, tabulation, charting, and numerical analysis of statistical data. Prerequisite: Graduate standing. Lab. fee $1.50. Lecture 1:30 F; lab. 8–12 S. Mr. Jerome.

132. STATISTICAL ANALYSIS OF BUSINESS CYCLES. I; 3 cr. The quantitative aspects of business cycles and the statistical methods used in their analysis. Prerequisites: A course in statistics and upper-group status or graduate standing. Lab. fee $1.50. Lecture 1:30 MW; lab. 3:30–5:30 F. Mr. Jerome.

196. ADVANCED STATISTICAL TECHNIQUE. II; 3 cr. The technique of numerical and graphical analysis, with particular attention to curve fitting, sampling, index numbers, analysis of time series, and measures of relationship, including partial and multiple correlation. Prerequisite: A course in statistics. Lab. fee $1.50. Lecture 1:30 F; lab. 9–12 S. Mr. Jerome.

230. SEMINARY IN STATISTICAL RESEARCH. Yr; 2 cr. Co-operative research in one or more economic problems, each member of the class concentrating on a selected phase of the common subject. Subject for 1930–31: prices. Reports on current developments in statistical method. 7:15–9:15 Th. Mr. Jerome.

See also Mathematics 136, 137, and 238 for courses in the mathematics of statistics.

EDUCATION

C J ANDERSON, Ph.M., *Professor of Education, Chairman*
WAYLAND JOHNSON CHASE, M.A., *Professor of Education*
FRANK LESLIE CLAPP, Ph.D., *Professor of Education*
ALANSON HARRISON EDGERTON, Ph.D., *Professor of Guidance*
JOHN GUY FOWLKES, Ph.D., *Professor of Education*
MICHAEL VINCENT O'SHEA, B.L., *Professor of Education*
ARVIL SYLVESTER BARR, Ph.D., *Associate Professor of Education*
THOMAS LLOYD JONES, B.S., *Associate Professor of Education*
STERLING A. LEONARD, M.A., *Associate Professor in the Teaching of English*
CURTIS MERRIMAN, Ph.D., *Associate Professor of Education*
HEBER HINDS RYAN, M.A., *Associate Professor of Education*
MATTHEW H. WILLING, Ph.D., *Associate Professor of Education*
IRA CLEVELAND DAVIS, B.A., *Assistant Professor in the Teaching of Science*
CLARENCE EDWIN RAGSDALE, Ph.D., *Assistant Professor of Education*
THEODORE L. TORGERSON, Ph.M., *Lecturer in Education*

Students below the junior class are not admitted to courses in the Department of Education except Courses 11 and 31 (open to sophomores) without the written permission of the instructor in charge. This permission will be granted only to mature students and to students properly prepared who are under the necessity of leaving the University, before graduation, to enter teaching.

Courses 11, 31, 41, and 75 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 professional courses of normal schools and teachers' colleges without special action by the department. Courses in the 200-group are open to properly qualified seniors who obtain the consent of the instructor.

MAJOR. Candidates for a bachelor's degree who elect education as a major automatically become candidates for the University Teachers' Certificate and must, therefore, acquire 124 credits and grade-points for graduation. They must also meet the following specific requirements:

1. Twenty-four credits in education, including courses 31, 75, and 147 (Economics 30, 31, 32, or 130 may be substituted for Education 147), and a minimum of two advanced courses in one of the nine divisions of the Department of Education:

I. Educational Organization and Administration
II. Educational Measurements and Scientific Techniques
III. Educational Psychology
IV. Vocational Guidance and Vocational Education
V. Educational Supervision and Methods
VI. Elementary Education
VII. Secondary Education
VIII. History and Philosophy of Education
IX. Curriculum Construction

Teachers' courses in other departments cannot be counted toward a major in education. A minimum of 15 credits in education must be completed in residence at this institution. Not more than 6 credits in education may be elected before attainment of junior standing.

2. Upper-group students are required to write a thesis, and lower-group students shall, at the option of the department, be required either to write a thesis or to substitute therefor 4 credits in advanced courses.

3. They must meet the university requirements for a teaching major, with the exception of a thesis, in one academic department other than education, or for teaching minors in two academic departments other than education. (These requirements should be fulfilled in departments whose subjects are taught in elementary or secondary schools.) A student must earn as many grade-points as credits in these departments. Students who transfer from other institutions must complete a minimum of two advanced courses in their major or one advanced course in each of their minor subjects at the University of Wisconsin, and must earn as many grade-points as credits in the courses pursued in majors or minors at this University.

See pages 80–83 for School of Education, including Bureau of Educational Research, Supervisory Service Bureau, teachers' certificates and licenses, etc.

ELEMENTARY COURSES

11. MENTAL DEVELOPMENT AND EDUCATION. I, II; 2 or 3 cr. The development of mind in the normal individual from birth to maturity, with special emphasis on the adolescent period and on training for adjustment to American life. 9 MW and quiz. Mr. O'Shea.

31. PRINCIPLES OF SECONDARY EDUCATION. I, II; 3 cr. Historical development of American secondary schools, present magnitude, European comparisons, modern objectives, curriculum reorganization, professionalization of teachers. Should be elected as the first course in the Department of Education. Required of candidates for the University Teachers' Certificate. 9, 10, 11, and 1:30 MWF. Mr. Willing, Mr. Clapp.

41. EDUCATIONAL PSYCHOLOGY. II; 3 cr. An elementary survey of the field of psychology with emphasis upon everyday school problems. Importance of instincts in motivation; types of learning; methods of teaching according to learning types; attention; how to study; economy in learning; elementary concepts in educational statistics. Students should have some acquaintance with the field of elementary general psychology. *Not open to candidates for the University Teachers' Certificate.*

75. PSYCHOLOGY AND PRACTICE OF TEACHING. I, II; 5 cr. Includes educational practice for *one credit* and laboratory work in educational psychology. Prerequisite: Education 31. *In the College of Letters and Science, educational practice may not be counted as part of the 120 credits required for graduation.* Required of candidates for the University Teachers' Certificate. Lectures, 9 and 11 MWF. Mr. Merriman, Mr. Ryan, and staff teachers of the Wisconsin High School.

I. EDUCATIONAL ORGANIZATION AND ADMINISTRATION

104. PRINCIPLES OF EDUCATIONAL ADMINISTRATION. Yr; 3 cr. First semester: national, state, and county school organization and administration. Second semester: local school organization and administration, including the administration of school systems as a whole and individual building administration. 8 MWF. Mr. Fowlkes.

176. College Organization and Administration. I or II; 2 cr. Offered in 1931–32. Mr. Fowlkes.

271. Business Elements of Educational Administration and School Finance. I; 3 cr. 9 MWF. Mr. Fowlkes.

272. School Buildings and School Building Programs. II; 2 cr. 10 MW. Mr. Fowlkes.

274. School Law. I or II; 2 cr. Offered in 1931–32. Mr. Fowlkes.

278. Seminary, School Administration. Yr; 2 cr. 2:30–4:30 W. Mr. Fowlkes.

II. EDUCATIONAL MEASUREMENTS AND SCIENTIFIC TECHNIQUES

115. Vocational Aptitude Tests. (See Group IV.)

138. Educational Tests. Yr; 3 cr. First semester: classroom uses of tests. Second semester: supervisory uses of tests. Lectures 4:30 MW; 1 hr. lab. Mr. Torgerson.

142. Tests and Measurements in Music. I; 2 or 3 cr. Lectures 8 MW; 1 hr. lab. Mr. Torgerson.

146. Mental Tests. Yr; 3 cr. First semester: group testing. Second semester: individual testing (Binet). Lectures 1:30 MW; 1 hr. lab. Mr. Torgerson.

147. Statistical Methods Applied to Education. I, II; 3 cr. Required of majors in education. 1:30–3:30 TT. Mr. Merriman.

183. Experimental Education: Verbal and Ideational Learning. (See Group III.)

239. Seminary, Methods of Educational Research. I; 2 cr. Prerequisite: Graduate standing. 2:30 TT. Mr. Barr.

244. Test Construction. Yr; 2 cr. Prerequisite: Education 147. 4:15 Tu. Mr. Torgerson.

For related courses see Education 203, 220, 248, 263, and 278, Mathematics 136 and 137.

III. EDUCATIONAL PSYCHOLOGY

112. Social Development and Education. I, II; 2 or 3 cr. The social traits and training of the individual with particular reference to the requirements for social efficiency in American life. 8 MWF. Mr. O'Shea.

121. Physical Development. II; 2 cr. Physical development from birth to maturity, showing the bearing of the physical changes during childhood upon the principles of education. 11 TT. Mr. Ragsdale.

123. Psychology and Training of the Pre-School Child. I, II; 2 cr. A study of the development and education of children, from infancy to the fifth year. Prerequisite: Education 11 or 112, or a major in education or psychology. 2:30–4:30 Th. Mr. O'Shea.

143. INDIVIDUAL DIFFERENCES AND THE MEASUREMENT OF INTELLIGENCE. II; 3 cr. Prerequisite: Psychology 1. 10 MWF. Mr. Henmon.

144. THE PSYCHOLOGY OF LEARNING. I; 3 cr. Prerequisite: Psychology 1. 10 MWF. Mr. Henmon.

161. PSYCHOLOGY OF THE ELEMENTARY SCHOOL SUBJECTS. I; 3 cr. The functions of learning in the various subjects; the mental processes involved in mastering subject matter. The conformity of textbooks and of teaching procedure to the principles discussed; a review of the investigative literature in the field. 1:30 MWF. Mr. Clapp.

182. EXPERIMENTAL EDUCATION: MOTOR LEARNING. I; 5 cr. A critical study of the experimental and theoretical literature dealing with learning of physical and manual skills. Considers the problems of physical education, athletics, music, manual and vocational activities. Prerequisite: Consent of instructor. Lab. fee $2.50. 11 MWF; lab. Mr. Ragsdale.

183. EXPERIMENTAL EDUCATION: VERBAL AND IDEATIONAL LEARNING. II; 3 cr. Prerequisite: Education 147 or concurrent registration. 11–12:15 TT. Mr. Barr.

184. MODERN SYSTEMS OF PSYCHOLOGY AND EDUCATION. I; 3 cr. A critical comparison of the more important viewpoints in present-day psychology, such as behaviorism, psycho-analysis, gestalt psychology, functionalism, together with the study of their effect upon present educational movements, i.e., individualized instruction, nursery schools, adult education, use of intelligence tests, etc. Prerequisite: Education 75 or consent of instructor. 10 MWF. Mr. Ragsdale.

220. SEMINARY IN EDUCATION. Yr; 1 or 2 cr. Discussions and research in contemporary American education. Prerequisite: Teaching experience, a major in education, or graduate standing. 7–9 Tu. Mr. O'Shea.

245. RESEARCH IN MOTOR LEARNING. II; 5 cr. Prerequisite: Education 145. Mr. Ragsdale.

248. RESEARCH IN EDUCATIONAL PSYCHOLOGY. Yr; 1 or 2 cr. Mr. Merriman, Mr. Ragsdale.

For related courses see Group II, above.

IV. VOCATIONAL GUIDANCE AND VOCATIONAL EDUCATION

113. VOCATIONAL AND EDUCATIONAL GUIDANCE SURVEY. I; 2 cr. Offered 1929–30 and in alternate years. 10 MW. Mr. Edgerton, Mr. Hinderman.

115. VOCATIONAL APTITUDE TESTS. I; 3 cr. Prerequisite: Psychology 103 or 104 or Education 147. 9 TT; lab. Lab. fee $2.00. Mr. Husband.

116. VOCATIONAL GUIDANCE AND COUNSELING TECHNIQUES. II; 2 cr. 10 MW. Mr. Edgerton, Mr. Hinderman.

150. VOCATIONAL GUIDANCE AND PLACEMENT PROBLEMS. I; 2 cr. Offered 1930–31 and in alternate years. Mr. Edgerton.

152. VOCATIONAL EDUCATION AND RESEARCH SURVEY. II; 2 cr. Mr. Friese.

153. Direction and Supervision of Vocational Education. II; 2 cr. 11 MW. Mr. Friese.

154. Job and Occupational Analysis. I; 2 cr. Mr. Friese.

157. Advanced Problems in Part-Time School Education. II; 2 cr. Mr. Thayer, Mr. Edgerton.

216. Seminary in Vocational and Educational Guidance. Yr; 2 cr. 4–5:45 W. Mr. Edgerton.

252. Seminary in Vocational Analysis and Individual Adjustment. Yr; 2 cr. 4–5:45 Tu. Mr. Edgerton.

V. EDUCATIONAL SUPERVISION AND METHODS

5. Disease Prevention (Pathology 5). II; 2 cr. Methods of disease prevention as they may be applied by the individual, the teacher, and by the larger political groups of town, city, and state. Designed for the general student without specialized training in any of the medical or pre-medical sciences. Lectures and conferences are given by various members of the faculty of the Medical School under the general supervision of Professor Clark.

110. Supervision of Elementary School Subjects. II; 3 cr. 11–12:15 TT. Mr. Anderson.

137. Supervision of Non-Academic Secondary School Subjects. I or II; 2–3 cr. Offered 1931–32 and in alternate years. Mr. Willing.

139. Technique of Supervision. I; 3 cr. Prerequisites: Senior standing, teaching experience. 4:30–5:45 TT. Mr. Barr.

164. Investigations in Mathematics. I; 2 cr. Offered in 1931–32. 11 MW. Mr. Fowlkes.

166. Investigations in the Teaching of the Social Studies. I; 2 cr. Prerequisites: Senior standing and teaching experience. 11 TT. Mr. Barr.

167. Investigations in Reading. II; 2 cr. Hours to be arranged. Mr. Anderson.

190. The Foundations of Method. II; 3 cr. Prerequisite: Teaching experience. 4:30–5:45 TT. Mr. Barr.

191. Advanced Course in the Teaching of English Literature. II; 2–3 cr. A consideration of the problems of literary criticism and of the results of scientific studies as these apply to the teaching of reading and literature in the schools and the junior college. 11 TT. Mr. S. A. Leonard.

192. Advanced Course in the Teaching of the English Language. I; 2–3 cr. A consideration of the bearing of rhetorical theory, modern linguistic study, and psychology upon the teaching of composition in the schools and the junior college. 11 TT. Mr. S. A. Leonard.

236. Supervision of Academic Secondary School Subjects. II; 2 or 3 cr. Specialized application of the general principles and techniques of supervision to the respective academic subjects of the high school. Study of recent national reports and of contemporary issues in subject teaching. 9 MW. Mr. Willing.

291. SEMINARY, THE SUPERVISION OF INSTRUCTION. II; 2 cr. 2:30 TT. Mr. Barr.

294. RESEARCH IN SUPERVISION AND TEACHING. Yr; 2 cr. Mr. Barr.

319. THE TEACHING OF SCIENCE IN THE SECONDARY SCHOOLS. I, II; 3–4 cr. Prerequisites: Education 31 and 75. 3:30 MTW. Mr. Davis.

For related courses see departmental teachers' courses.

VI. ELEMENTARY EDUCATION

110. SUPERVISION OF ELEMENTARY SCHOOL SUBJECTS. II; 3 cr. 11–12:15 TT. Mr. Anderson.

111. ELEMENTARY SCHOOL CURRICULUM. (See Group IX.)

161. PSYCHOLOGY OF ELEMENTARY SCHOOL SUBJECTS. (See Group III.)

164. INVESTIGATIONS IN MATHEMATICS. I; 2 cr. Offered in 1931–32. 11 MW. Mr. Fowlkes.

166. INVESTIGATIONS IN THE TEACHING OF THE SOCIAL STUDIES. (See Group V.)

167. INVESTIGATIONS IN READING. II; 2 cr. Hours to be arranged. Mr. Anderson.

263. SEMINARY IN ELEMENTARY EDUCATION. Yr; 2 cr. Prerequisite: Graduate standing or teaching experience. 7–9 M. Mr. Clapp.

270. RESEARCH IN ELEMENTARY EDUCATION. Yr; 2 cr. Prerequisite: Graduate standing or teaching experience. Mr. Anderson.

VII. SECONDARY EDUCATION

128. INTRODUCTION TO EDUCATIONAL SOCIOLOGY. (See Group IX.)

130. DEVELOPMENT OF SECONDARY SCHOOL CURRICULA. (See Group IX.)

131. RECONSTRUCTION OF SECONDARY SCHOOL CURRICULA. (See Group IX.)

132. ORGANIZATION AND ADMINISTRATION OF EXTRA-CURRICULAR ACTIVITIES. I or II; 2 cr. Offered 1931–32 and in alternate years. Mr. Willing.

134. THE JUNIOR HIGH SCHOOL. II; 2 cr. Historical development, present philosophy, practices, evaluation. Offered in 1931–32. Mr. Willing.

137. SUPERVISION OF NON-ACADEMIC SECONDARY SCHOOL SUBJECTS. (See Group V.)

138. EDUCATIONAL TESTS. (See Group II.)

139. TECHNIQUE OF SUPERVISION. (See Group V.)

232. RESEARCH IN SECONDARY EDUCATION. Yr. Hours, credit, and content arranged through conference with instructor. Mr. Willing.

236. SUPERVISION OF ACADEMIC SECONDARY SCHOOL SUBJECTS. (See Group V.)

VIII. HISTORY AND PHILOSOPHY OF EDUCATION

101. HISTORY OF MODERN EUROPEAN EDUCATION. II; 2–3 cr. 8 MWF. Mr. Chase.

102. HISTORY OF ANCIENT AND MEDIEVAL EDUCATION. I; 2–3 cr. 8 MWF. Mr. Chase.

103. HISTORY OF AMERICAN EDUCATION. I, II; 2–3 cr. 10 MWF. Mr. Chase.

117. PHILOSOPHY OF EDUCATION. II; 2 cr. The political philosophy that determines the character of national systems of education. The social philosophy which justifies different plans of school organization and various types of schools. The philosophy underlying the various methods of teaching and of organizing subject matter. 1:30 MW. Mr. Clapp.

125. SOCIAL ASPECTS OF EDUCATION. II; 3 cr.

126. SOCIAL INTERPRETATION OF EDUCATION. I; 3 cr.

202. PROSEMINARY IN MEDIEVAL EDUCATION. I; 2 cr. Open also to seniors. 3:30–5:30 Th. Offered 1929–30 and in alternate years. Mr. Chase.

203. PROSEMINARY, HISTORY OF AMERICAN EDUCATION. II; 2 cr. Open also to seniors. 3:30–5:30 Th. Mr. Chase.

204. EUROPEAN SCHOOL SYSTEMS AND RECENT EDUCATIONAL PROGRESS. I; 2 cr. 10 TT. Offered 1930–31 and in alternate years. Mr. Chase.

214. SEMINARY, ADULT EDUCATION. Yr; 2 cr.

226. SOCIAL PHILOSOPHY OF EDUCATION. Yr; 2 cr.

IX. CURRICULUM CONSTRUCTION

111. ELEMENTARY SCHOOL CURRICULUM. I; 3 cr. Principles which should determine the selection and arrangement of instructional material. A critical study of curricula now in use. Laboratory work in the formulation of courses of study in various subjects. Working plans for constructing a course of study for a school system. Offered 1930–31 and in alternate years. Mr. Clapp.

128. INTRODUCTION TO EDUCATIONAL SOCIOLOGY. I; 2 or 3 cr. Third credit for graduate students to be earned through study of special problems. Explanation and implications of the proposition that the school is a social institution, with special reference to the American secondary school. 9 MW. Mr. Willing.

130. DEVELOPMENT OF SECONDARY SCHOOL CURRICULA. I; 2–3 cr. Third credit for graduate students to be earned through study of special problems. Sources, development, and criteria of the curriculum of secondary education. 2:30 MW. Mr. Willing.

131. RECONSTRUCTION OF SECONDARY SCHOOL CURRICULA. II; 2–3 cr. Third credit for graduate students to be earned through study of special problems. Application of modern educational criteria to the curriculum of American secondary schools. 2:30 MW. Mr. Willing.

235. PROFESSIONAL PREPARATION OF TEACHERS. I; 3 cr. Prerequisite: Teaching experience or graduate standing. 11–12:15 TT. Mr. Anderson.

ENGLISH

ARTHUR BEATTY, Ph.D., *Professor of English*
ROBERT ELKIN NEIL DODGE, M.A., *Professor of English*
HENRY BURROWES LATHROP, B.A., *Professor of English, Chairman* (on leave 1930–31)
WILLIAM ELLERY LEONARD, Ph.D., *Professor of English*
JAMES FRANCIS AUGUSTIN PYRE, Ph.D., *Professor of English*
FREDERICK WILLIAM ROE, Ph.D., Litt.D., *Professor of English* (on leave II)
WARNER TAYLOR, M.A., *Professor of English*
WILLIAM B. CAIRNS, Ph.D., *Associate Professor of American Literature*
STERLING ANDRUS LEONARD, M.A., *Associate Professor in the Teaching of English*
HARRY GLICKSMAN, LL.B., Ph.D., *Lecturer in English*
HARRY HAYDEN CLARK, M.A., *Assistant Professor of English*
PAUL MILTON FULCHER, Ph.D., *Assistant Professor of English*
MILES LAWRENCE HANLEY, M.A., *Assistant Professor of English*
RICARDO BECKWITH QUINTANA, Ph.D., *Assistant Professor of English*
CHARLES WRIGHT THOMAS, B.A., *Assistant Professor of English*
ETHEL THORNBURY, Ph.D., *Assistant Professor of English*
JULIA GRACE WALES, Ph.D., *Assistant Professor of English*
RUTH C. WALLERSTEIN, Ph.D., *Assistant Professor of English*
HELEN CONSTANCE WHITE, Ph.D., *Assistant Professor of English*

INSTRUCTORS

PHYLLIS BARTLETT, B.Litt.
WILLIAM MARTIN CARD, B.A.
IRA THORNE CLEMENT DISSINGER, M.A.
JAMES DUFF, M.A.
MAXWELL M. FREEMAN, M.A.
IRWIN GRIGGS, M.A.
ALLAN G. HALLINE, M.A.
JOHN JACOB LYONS, M.A.
ERNEST MARCHAND, M.A.
KATHERINE MCMULLEN, M.A.
MARGARET I. POPE, M.A.
HELEN M. RICKETT, M.A.
H. MELVILLE SAYRE, M.A.
JOHN KIMBALL SNYDER, M.A.
HAROLD STEIN, B.A.
MACKLIN THOMAS, M.A.
DAVID WEBSTER, M.A.
MALCOLM L. WILDER, Ph.D.
CHARLOTTE ROBERTSON WOOD, M.A.

MAJOR. A minimum of 34 credits, including freshman composition and either 6 credits in English 30 or 4 credits in English 33, together with at least one course from each of the following groups: (a) 34 (3 cr.) or 35 (3 cr.), or 40 (4 cr.), normally in junior year; (b) 37, 136, or 137, junior or senior year; (c) 31, 57, 118, 120, 123, 129, 156, 157, 158, 160, or 162, junior or senior year; (d) a thesis or equivalent, senior year. Students intending to choose English as their major study are urged to take English 30, Survey of English Literature, in their sophomore year; they should have done better than average work in their preliminary work in English and in foreign languages. A thesis is required only of upper-group students; others are required to substitute four credits in courses of the one-hundred group in addition to those offered in satisfaction of the above group requirements. Students entering with advanced standing are generally required to earn 20 credits in English at the University of Wisconsin.

TRAINING OF TEACHERS. See School of Education, page 86.

RHETORIC AND COMPOSITION

A. ENGLISH COMPOSITION. Three hours a week; no credit. For students who have failed to pass the preliminary test.

1a. FRESHMAN ENGLISH. I, II; 3 cr. Required of freshmen in all colleges. Mr. Taylor and staff.

1b. FRESHMAN ENGLISH. I, II; 3 cr. Continuation of English 1a. Required of all freshmen excepting those who receive a grade of A in English 1a. On the completion of this course, a provisional pass mark is given; if subsequently a student is reported deficient or careless in English composition, he may be required to take additional work in that subject. Mr. Taylor and staff.

2. SOPHOMORE COMPOSITION. I, II; 2 cr. Prerequisites: English 1b, 2a, exposition; 2b, description and narration. 8, 9, 10, 11, or 1:30 TT. Mr. Freeman and staff.

5. JUNIOR COMPOSITION. Yr; 2 cr. Prerequisite: Consent of instructor. 10 TT. Miss White.

6. ADVANCED COMPOSITION. Yr; 3 cr. Prerequisite: Junior standing. Not offered 1930–31. Mr. Dodge.

7. NARRATIVE COMPOSITION. Yr; 2 cr. Prerequisites: Junior standing and consent of instructor. 10 TT. Mr. Fulcher.

8. CRITICAL WRITING. Yr; 2 cr. Each member of the class takes up a particular author or topic as the center of his writing for the semester. Prerequisite: Consent of instructor. 11 TT. First semester, Mr. Clark; second semester, Miss Thornbury.

ENGLISH LANGUAGE AND LITERATURE

25. ENGLISH WORDS. II; 3 cr. Prerequisite: Sophomore standing. Can be taken for only partial credit by a student who has taken English 123. 10 MWF. Mr. Hanley.

30. SURVEY OF ENGLISH LITERATURE. Yr; 3 cr. This course, the mateial in which is arranged in historical sequence, is designed for students who have a special interest in the study of literature, and is recommended to sophomores who contemplate making English their major subject. Either this course or course 33 must be taken as a prerequisite for all advanced courses in English literature. A student who has a semester's credit in course 33 may not elect either semester of course 30. 8, 10, 11, or 2:30 MWF, or 8 TT, 9 F. (First semester's work repeated in second semester, and second semester's work given during first semester, 2:30 TTF.) Mr. Pyre and staff.

31. CHAUCER. II; 3 cr. 9 MWF. Mr. Hanley.

33. INTRODUCTION TO ENGLISH LITERATURE. Yr; 2 cr. This course, the material in which is not taken up in historical order, is primarily a course in the appreciation of literature. It is provided especially for sophomores who are candidates for the general B.A. degree. The requirement in English literature for this degree may be met, however, either by 4 credits in this course or by 6 credits in course 30. Either this course or course 30 is a prerequisite for all advanced courses in English literature. A student who has a semester's credit in course 30 may not elect either semester of course 33. 9, 10, or 11 TT. (First semester's work repeated in second semester and second semester's work given during first semester, 1:30 TT.) Mr. Beatty and staff.

34. THE ROMANTIC MOVEMENT. I; 3 cr. 10 MWF. Mr. Roe, Mr. Thomas.

35. THE VICTORIAN ERA. II; 3 cr. A continuation of 34. 10 MWF. Mr. Thomas, Miss White.

37. SHAKESPEAREAN DRAMA. Yr; 3 cr. Open to juniors. A broad course for undergraduates. 11 MWF. Mr. Beatty.

39. THE ENGLISH NOVEL. Yr; 2 cr. Richardson to Meredith. Offered 1929–30 and in alternate years. 9 TT. Mr. Fulcher.

40. AMERICAN LITERATURE. Yr; 2 cr. A general survey. This course should be preceded or accompanied by English 30. 9 TT, Mr. Cairns; 10 TT, Mr. Clark.

48. THE LITERARY ASPECTS OF THE ENGLISH BIBLE. I; 3 cr. 10 MWF. Miss Wales.

54. CARLYLE AND RUSKIN. I; 3 cr. 9 MWF. Mr. Roe.

55. EMERSON AND ARNOLD. II; 3 cr. Not offered 1930–31. Mr. Roe.

57. MILTON. II; 2 cr. All of Milton's English poetry is read; emphasis is placed upon seventeenth-century historical background. 9 TT. Mr. Quintana.

67. CONTEMPORARY DRAMA. See Comparative Literature 67.

68. CONTEMPORARY NOVEL. See Comparative Literature 68.

102. RENAISSANCE EPIC. See Comparative Literature 102.

108. OLD NORSE. See Scandinavian 108.

118. PRE-SHAKESPEAREAN DRAMA. Yr; 3 cr. 2:30 MWF. Mr. Clark.

120. ANGLO-SAXON. I; 3 cr. 1:30 MWF. Mr. Hanley.

121. MIDDLE ENGLISH. II; 3 cr. A continuation of course 120. 1:30 MWF. Mr. Hanley.

122. BEOWULF. II; 3 cr. 10 MWF. Mr. W. E. Leonard.

123. HISTORY OF THE ENGLISH LANGUAGE. I; 3 cr. Should be taken in the junior year by candidates for the teachers' certificate. 1:30 MWF. Mr. Hanley.

129. SWIFT. I; 3 cr. Considerable attention is given to English thought in the seventeenth century as it bears upon Swift. 9 MWF. Mr. Quintana.

136. ELIZABETHAN DRAMA INCLUDING SHAKESPEARE. Yr; 3 cr. In this course practically all of the plays of Shakespeare are read, with representative plays by important contemporaries. 11 MWF. Mr. Pyre.

137. SHAKESPEARE. Yr; 3 cr. In this course about half the plays of Shakespeare are read, four of them being studied in minute detail. Prerequisite: Senior standing. Not offered 1930–31. Mr. Lathrop.

138. ENGLISH PROSE STYLE. Yr; 2 cr. Offered 1930–31 and in alternate years. 10 TT. Mr. Taylor.

141. TENNYSON. I; 3 cr. 9 MWF. Mr. Beatty.

142. VERSIFICATION. II; 2 cr. Offered 1930–31 and in alternate years. Mr. Pyre.

143. FAMILIAR ESSAY. I; 2 cr. Offered 1929–30 and in alternate years. 10 TT. Mr. Taylor.

144. WORDSWORTH. II; 3 cr. 9 MWF. Mr. Beatty.

145. BROWNING. I; 2 cr. 9 MWF. Mr. Beatty.

147. ENGLISH ESSAYISTS. II; 2 cr. Offered 1929–30 and in alternate years. 10 TT. Mr. Taylor.

149. THE AMERICAN SHORT STORY. I; 2 cr. 1:30 MW. Mr. Cairns.

150. THE AMERICAN NOVEL. II; 2 cr. 1:30 MW. Mr. Cairns.

156. THE EARLY SEVENTEENTH CENTURY. II; 3 cr. 10 MWF. Miss Wallerstein.

157. MILTON. II; 2 cr. Open to graduates and upper-group seniors. 9 TT. Mr. Dodge.

158. THE AGE OF DRYDEN. II; 3 cr. Offered 1929–30 and in alternate years. 10 MWF. Mr. Lathrop.

159. THE AGE OF POPE. I; 3 cr. 10 MWF. Miss Wallerstein.

160. THE SIXTEENTH CENTURY. I; 3 cr. 10 MWF. Mr. Dodge.

162. THE AGE OF JOHNSON. I; 2 cr. 11 TT. Miss Thornbury.

169. AMERICAN POETRY OF THE NINETEENTH CENTURY. Yr; 2 cr. 10 TT. Mr. Cairns.

177. RENAISSANCE SATIRE. See Comparative Literature 177.

180. READING FOR HONORS. 2–4 cr. Students expecting to read for honors in English will enter upon their work in the second semester of their junior year, carrying two credits under direction, will be expected to carry on their general reading during the following summer, and will carry the work for four credits each semester of the senior year. Prerequisites: High standing in previous courses; consent of chairman of the department and of the Dean. Special adviser to be appointed in each case.

185. INTRODUCTION TO PHONETICS. I; 3 cr. 10 MWF. Mr. Hanley.

200. RESEARCH IN ENGLISH. II; 2 cr. Mr. Beatty.

227. SEMINARY, HISTORY OF THE ENGLISH LANGUAGE. Yr; 2 cr. 7:30–9:30 M. Mr. W. E. Leonard.

232. INTRODUCTORY SEMINARY. Yr; 2 cr. Chaucer. 3:30–5:30 Th. Mr. W. E. Leonard.

233. INTRODUCTORY SEMINARY. Yr; 2 cr. 1:30–3:30 Th. 1929–30, Shakespeare's Use of His Sources, Miss Wales; 1930–31, Shakespearean Criticism, Mr. Pyre.

234. INTRODUCTORY SEMINARY. Yr; 2 cr. Seventeenth-Century Thought. Mr. Quintana.

240. INTRODUCTORY SEMINARY. Yr; 2 cr. Problems in Anglo-American Literary Relations, 1783–1833. 3:30–5:30 W. Mr. Cairns.

244. SEMINARY. Yr; 2 cr. 1:30–3:30 Tu. 1929–30, Shakespeare's Later Contemporaries, Mr. Pyre; 1930–31, Some Movements in Thought in Seventeenth-Century Poetry, Miss White.

TEACHERS' COURSES

340. THE TEACHING OF ENGLISH. I, II; 3 cr. for the minor; 4 cr., including one credit for participation teaching, for the major. Prerequisites: English 120 or 123, senior standing, and satisfactory grade in a qualifying examination covering the elements of grammar, the detection and correction of deviations from standard English, and the works of English literature commonly studied in high schools. This examination is given in the first semester of the junior year. 3:30 MW. Mr. S. A. Leonard.

191. ADVANCED COURSE IN THE TEACHING OF ENGLISH LITERATURE. II; 2–3 cr. A consideration of the problems of literary criticism and of the results of scientific studies as these apply to the teaching of reading and literature in the schools and the junior college. 11 TT. Mr. S. A. Leonard.

192. ADVANCED COURSE IN THE TEACHING OF THE ENGLISH LANGUAGE. I; 2–3 cr. A consideration of the bearing of rhetorical theory, modern linguistic study, and psychology upon the teaching of composition in the schools and the junior college. 11 TT. Mr. S. A. Leonard.

FINE ARTS

(See Art History, page 120.)

FORESTRY AND FOREST PRODUCTS

ARTHUR KOEHLER, M.S., *Lecturer in Forest Products*
HARRY DONALD TIEMANN, M.E., M.F., *Lecturer in Forest Products*

These courses are given in cooperation with the United States Forest Products Laboratory, as described under that heading, to which students interested in the utilization of wood, chemistry of forest products, etc., are referred for further information. The three courses here listed may be elected by juniors and seniors in Letters and Science with the consent of the Dean.

1. GENERAL FORESTRY. I; 2 cr. A non-technical course on identification of native trees; the forest condition and the forest policy of the United States. 11 TT. Mr. Tiemann.

101. PROPERTIES OF WOOD. I; 2 cr. Physical, mechanical, and chemical properties of wood; pulping and gluing characteristics; relation of defects and fungi to wood properties. Prerequisite: Forestry 1. Offered 1929–30 and in alternate years. 4:40 TT. Mr. Koehler.

102. WOOD TECHNOLOGY. II; 2 cr. The structure and identification of commercial species of wood. 11 TT. Mr. Tiemann.

FRENCH AND ITALIAN

CASIMIR DOUGLASS ZDANOWICZ, Ph.D., *Professor of French, Chairman*
WILLIAM FREDERICK GIESE, M.A., *Professor of French*
EDWARD BUNKER SCHLATTER, Ph.D., *Professor of Romance Languages*
HUGH ALLISON SMITH, M.A., *Professor of French*
FREDERIC DANIEL CHEYDLEUR, Ph.D., *Associate Professor of French*
LUCY MARIA GAY, B.L., *Associate Professor of French*
CHARLES FREDERICK GILLEN, Ph.D., *Associate Professor of French*
SAMUEL GREENE ARNOLD ROGERS. M.A., *Associate Professor of French**
JOSEPH LOUIS RUSSO, Ph.D., *Associate Professor of Italian*
ROBERT FOSTER BRADLEY, JR., M.A., *Assistant Professor of French*
JEANNE HAROUEL GREENLEAF, B.L., *Assistant Professor of French**
JULIAN EARLE HARRIS, Ph.D., *Assistant Professor of French*
LAURA BUTLER JOHNSON, M.A., *Assistant Professor of Romance Languages*
ROBERT BELL MICHELL, Ph.D., *Assistant Professor of French*
DE VAUX DE LANCEY, M.A., *Lecturer in French*

INSTRUCTORS

CHARLES THOMAS CADDOCK, JR., M.A.
HULET HALL COOK, M.A.
MARJORIE ANNE COVERT, M.A.
WILLIAM JUDSON GAINES, JR., M.A.
ANNE GASOOL, M.A.
CHARLES HUNT GREENLEAF, M.A.*
CAMERON CHARLES GULLETTE, M.A.
ELTON CAPPER HOCKING, M.A.
ANDRÉ LÉVEQUE, Licencié en Droit
ESTHER MARHOFER, M.A.
GERMAINE MERCIER, M.A.
JEANNE METTENET, M.A.
EDWARD ELGIN MILLIGAN, M.A.
MARGARET BURLING MOTT, M.A.
JOSEPH ROSSI, M.A.
MARGUERITE TREILLE, Ph.D.

*** On leave 1930–31.**

The elementary courses in French and Italian have been planned to meet the needs of those who have begun the language in high school, as well as of those who take it up for the first time in college. One unit (year) of high-school work is assumed to be the equivalent of 4 credits, or one semester, of college work.

French 13 and 15 and Italian 15 are second-year practice courses intended to supplement the training in French or Italian 10, which emphasize the acquiring of reading knowledge. They may be taken only in conjunction with some other course in the language, except by special permission. French 16, 124, and 127, and Italian 116 afford more advanced training in writing and speaking.

French 20 and 21 are both third-year courses. Only one may be taken for credit, as prescribed below under the announcements of these courses. French 20 is mainly a reading and translation course; French 21 includes translation, study of the literary aspect of the work read, and literary history. One of these two courses, or its equivalent, is prerequisite to advanced courses in French literature. Italian 20 is similarly designed to be introductory to other courses in Italian literature, although students receiving a grade of B, or above, in fourth-semester Italian should go directly into the advanced courses in literature.

Students are advised to consult the foreign-language requirements for the B.A., page 58.

MAJOR. In French or Italian—28* credits in advance of 1b, including thesis, thesis course, or substitute. Lower-group students are required to take 4–6 credits in literature courses numbered above 100 in lieu of writing a thesis. (*24 credits for those who have begun their major prior to 1930–31.)

By faculty requirement, students choosing a foreign-language major must present a second foreign language.

All who intend to specialize in French or Italian are urged to elect related courses in history, art, other languages and literatures, and philosophy. Those who expect to continue for advanced degrees should note that knowledge of another foreign language is required for the M.A., and that for satisfactory work in Romance philology some knowledge of Latin is indispensable. Both Latin and German, as well as another Romance language, are required for the Ph.D. and should be acquired as early as possible.

TEACHING MAJOR AND MINOR. See page 87.

FRENCH HOUSE. *La Maison Française*, intended especially for intensive training in speaking French, is maintained under the auspices of the Department. It is open to women students for room and board, and both men and women rooming outside may take their meals there. Women of French birth reside in the house to aid in conversation, and they, with regular instructors, preside at the tables, where French only is spoken. Prospective teachers of French, and all others desirous of acquiring practice in the spoken language, are urged to room or board at the French House. With approval of the departmental faculty, a part of the prescribed training in conversation, necessary for the teachers' certificate, may be done in this house. Requests for further information and application for rooms and board should be directed to the Chairman, Department of French and Italian, and sent well in advance, both for summer session and regular year. The house is also headquarters for the French Club.

ITALIAN TABLE. An Italian table is conducted several times a week at the *Casa Cervantes*. Inquiries should be addressed to Professor Russo.

CLUBS. French and Italian clubs at the University afford students opportunity to hear talks about the country whose language they are studying, to participate in short plays and games, and to converse in the language in which they are interested. Modern and classical plays are presented in public from time to time.

FRENCH

LANGUAGE

1a. FIRST-SEMESTER FRENCH. I, II; 4 cr. For students who have had no French. 20 sections I; 6 sections II. Mr. Cheydleur and staff.

1b. SECOND-SEMESTER FRENCH. I, II; 4 cr. Prerequisite: French 1a or one year of high-school French. 6 sections I; 19 sections II. Based on an examination, or their previous record of B or above, the better students are assigned to special sections. Mr. Cheydleur and staff.

10a. THIRD-SEMESTER FRENCH. I, II; 3 cr. Largely a reading course. Prerequisite: French 1b or two years of high-school French. 20 sections I; 6 sections II. Based on an examination, or a previous record of B or above, the better students are assigned to special sections. Mr. Bradley and staff.

10b. FOURTH-SEMESTER FRENCH. I, II; 3 cr. Largely a reading course. Prerequisite: French 10a or three years of high-school French. 7 sections I; 18 sections II. Based on an examination, or a previous record of B or above, the better students are assigned to special sections. Mr. Bradley and staff.

13. RAPID READING. Yr; 1 cr. Emphasis on sight translation; contemporary prose. To be taken only with French 10a or 10b; not open to students with two years of college French (except by special permission). Does not count toward French teaching major or minor. 6 sections. Mr. Bradley and staff.

15. ELEMENTARY COMPOSITION AND CONVERSATION. Yr; 2 cr. Review of grammatical principles with oral and written exercises. Supplementary course to be taken with French 10a and 10b. Not open to students who have had the equivalent of two years of college French, except by special permission. 8 sections. Mr. Bradley and staff.

16. INTERMEDIATE CONVERSATION AND COMPOSITION. Yr; 2 cr. Prerequisite: Grade of at least C in 10b or in 15b. 8 sections. Miss Gay and staff.

18. FRANCE OF TODAY. Yr; 2 cr. Reading and discussion of books, newspapers, and periodicals. Open only to students in journalism and commerce, except by special permission. Prerequisite: French 10b and sophomore standing. 8 TT. Mr. Harris.

20. THIRD-YEAR READING. Yr; 3 cr. Mainly a reading and translation course. Prerequisite: French 10b or four years of high-school French. Not open to those whose grade in French 10b was B or above; such students take French 21. If the results of an examination warrant, students who have had their preparation elsewhere may be transferred to French 21. 7 sections. Mr. Caddock, Mr. Cook, Mr. Gullette, Mr. Hocking, Mr. Rogers, Mr. Sullivan.

124. COMPOSITION AND CONVERSATION. Yr; 2 cr. Prerequisite: French 16 or grade of A or B in 10b and 15. Conducted in French. 3 sections. Miss Gay, Miss Mettenet, Miss Treille.

127. ADVANCED COMPOSITION AND CONVERSATION. Yr; 2 cr. Prerequisite: French 16 with grade of A, or French 124. Conducted in French. 10 TT. Mrs. Greenleaf.

141. HISTORY OF THE FRENCH LANGUAGE. Yr; 1 cr. Lectures and assigned reading. 2:30 W. Mr. Schlatter.

190. PHONETICS. I, II; 2 cr. Theory of French sounds, with practice in pronunciation. Prerequisite: Three years of college French. 11 TT or 11 MW. Mrs. Greenleaf.

191. FRENCH DICTION. II; 2 cr. Study of stress, quantity, rhythm, breathing, articulation, voice, intonation. Prerequisite: French 190 or consent of instructor. Mrs. Greenleaf.

227. GRADUATE COURSE IN COMPOSITION. Yr; 1 cr. Open to students who have had French 127 or equivalent. Conducted in French. Mrs. Greenleaf.

240. OLD FRENCH. Yr; 2 cr. An introductory course, phonology and grammar. Lectures and reading. Miss Gay.

244. OLD PROVENÇAL. Yr; 2 cr. Miss Gay.

344. THEORY AND PRACTICE OF TEACHING FRENCH. I, II; 3 cr. 11 TT. Miss Johnson.

LITERATURE

Six credits in French 20 or 21 are prerequisite to all other courses in French literature.

21. ELEMENTARY SURVEY. Yr; 3 cr. Prerequisite: Grade of B or above in French 10b. If the results of an examination show inadequate preparation on the part of students whose preparatory work has been taken elsewhere, they may be transferred to French 20. Translation, assigned reading, study of literary aspects of works read, and literary history. 8 sections, one of which is conducted in French. Mr. Bradley, Miss Gay, Mr. Giese, Mr. Gillen, Mr. Harris, Mr. de Lancey, Mr. Michell, Mr. Rogers.

50. FRENCH MASTERPIECES IN TRANSLATION. (Comp. Lit. 50). Yr; 2 cr. No language prerequisite. This course does not carry credit toward the requirement in foreign language, nor toward the major or minor. 10 TT. Mr. Michell.

100. THESIS COURSE. Yr; 2 cr. Open only to seniors and graduates in groups not exceeding 10. Students must register with the chairman of the department for individual theses or thesis courses. 2 sections: 1. Balzac, Stendhal, and Flaubert—Mr. Rogers; 2. Letters and biography—Mr. Gillen.

122. FRENCH LITERATURE OF THE NINETEENTH CENTURY. Yr; 3 cr. 10 MWF. Mr. Giese.

123. MODERN FRENCH DRAMA. Yr; 3 cr. From the Romantic period to the present. 9 or 10 MWF. Mr. Smith.

125. CONTEMPORARY FRENCH LITERATURE. Yr; 3 cr. This course should be preceded by some general course on a century or a genre. 1:30 MWF. Mr. Rogers.

126. *EXPLICATION DE TEXTES.* Yr; 3 cr. Reading of texts, prose and poetry, with a careful study of the contents, author, background, etc. Conducted in French. Mrs. Greenleaf.

131. GENERAL SURVEY OF FRENCH LITERATURE. Yr; 3 cr. 8 MWF. Mr. Cheydleur.

132. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. Yr; 2 cr. Especially Voltaire, Diderot, Rousseau. Offered 1930–31 and in alternate years. 11 TT. Mr. Michell.

133. VICTOR HUGO. I; 2 cr. Not offered 1930–31. Mr. Michell.

134. BALZAC. II; 2 cr. Not offered 1930–31. Mr. Michell.

136. FRENCH NOVEL FROM THE SEVENTEENTH CENTURY TO THE TWENTIETH. Yr; 3 cr. 11 MWF. Mr. Cheydleur.

137. MOLIÈRE. Yr; 2 cr. 9 TT. Mr. Zdanowicz.

139. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. Yr; 3 cr. Conducted in French. 8 MWF. Mr. de Lancey.

145. FRENCH LITERATURE OF THE SIXTEENTH CENTURY. Yr; 2 cr. 2:30 TT. Mr. Zdanowicz.

150. FRENCH CIVILIZATION. Yr; 1–2 cr. The background of history, art, and institutions as an aid to the understanding of the principal movements of French literature. Lectures, readings, and reports. 10 TT. Mr. Lévêque.

200. INDIVIDUAL RESEARCH IN FRENCH. Yr; *cr. Superior graduate students, with special permission, may do individual research, under supervision, in some definite field. Staff, on consultation with chairman of department.

242. OLD FRENCH EPIC POETRY. Yr; 2 cr. The history of the *Chanson de Geste* traced, and several representative poems read during the year. Offered 1930–31. Mr. Smith.

243. SEMINARY, OLD FRENCH LITERATURE. Yr; 2 cr. A general survey of the Arthurian Cycle; with special emphasis on *Tristan, Marie de France,* and *Chrétien de Troyes.* Not offered 1930–31. Miss Gay.

250. THE RENAISSANCE IN ROMANCE COUNTRIES. Yr; 2 cr. A study of the development of the Renaissance spirit and its manifestations, especially in France. Offered 1929–30 and in alternate years. Mr. Zdanowicz.

252. SEMINARY, ANCIENT FRENCH DRAMA. Yr; 2 cr. Not offered 1930–31. Mr. Smith.

253. SEMINARY, FRENCH LITERATURE. Yr; 2 cr. The growth of Classicism and its general spirit, with special study of some representative author each semester. Not offered 1930–31. Mr. Zdanowicz.

254. SEMINARY, FRENCH LITERATURE. Yr; 2 cr. Realism and Naturalism in the French drama. Offered 1930–31. Mr. Smith.

255. SEMINARY, FRENCH LITERATURE. Yr; 2 cr. Realism and Naturalism in the novel and short story. Not offered 1930–31. Mr. Smith.

256. SEMINARY, FRENCH LITERATURE. Yr; 2 cr. 1929–30: Classicism; 1930–31: Romanticism. Mr. Giese.

ITALIAN

LANGUAGE

1a. FIRST-SEMESTER ITALIAN. I, II; 4 cr. For students who have not studied Italian. 4 sections I; 2 sections II. Miss Marhofer, Mr. Rossi.

1b. SECOND-SEMESTER ITALIAN. I, II; 4 cr. Prerequisite: Italian 1a or one year of high-school Italian. 1 section I; 4 sections II. Miss Marhofer, Mr. Rossi.

10a. THIRD-SEMESTER ITALIAN. I; 3 cr. Prerequisite: Italian 1b or two years of high-school Italian. 2 sections. Miss Marhofer, Mr. Rossi.

10b. FOURTH-SEMESTER ITALIAN. II; 3 cr. Prerequisite: Italian 10a or three years of high-school Italian. 2 sections. Miss Marhofer, Mr. Rossi.

15. ELEMENTARY COMPOSITION AND CONVERSATION. Yr; 2 cr. Supplementary course to be taken with Italian 10a and 10b. 2 sections. Mr. Russo.

20. THIRD-YEAR READING. Yr; 3 cr. Prerequisite: Italian 10b. Not open to those whose grade in Italian 10b was B or above; such students should take literature courses. 9 MWF. Miss Marhofer.

116. ADVANCED COMPOSITION AND CONVERSATION. I; 2 cr. Prerequisite: Italian 15 with grade of B. 10 MF. Mr. Russo.

LITERATURE

Two years of Italian in college, or the equivalent, are prerequisite to advanced courses in Italian, except by special permission of instructor.

53. ITALIAN MASTERPIECES IN TRANSLATION (Comp. Lit. 53). Yr; 2 cr. A study of some of the greatest works of Italian literature. Lectures, class discussions, assigned reading. The first semester is devoted to Dante, Petrarch, and Boccaccio; the second semester begins with the Renaissance authors and ends with Pirandello. No language prerequisite. This course does not carry credit toward the requirement in foreign language, nor toward the major or minor. Offered 1930–31 and in alternate years. 10 TT. Mr. Russo.

122. RISORGIMENTO. Yr; 2 cr. A study of the authors who, from the time of the French Revolution to 1870, inspired the struggle for the rebirth of Italy. Conducted in Italian. Offered 1930–31. 9 TT. Mr. Russo.

123. ITALIAN DRAMA. Yr; 2 cr. The development of Italian drama from its origins to the present. Conducted in Italian. Offered 1929–30 and in alternate years. Mr. Russo.

131. GENERAL SURVEY OF ITALIAN LITERATURE. Yr; 3 cr. Lectures, reports, and reading of representative works from the thirteenth century to the present. Offered 1930–31 and in alternate years. 9 MWF. Mr. Russo.

136. MODERN NOVEL. II; 2 cr. A study of the Italian novel from Manzoni to the present. Offered 1930–31. 10 MF. Mr. Russo.

154. MACHIAVELLI. I; 2 cr. His historical, political, and literary works. Not offered 1930–31. Mr. Russo.

160. DANTE. Yr; 3 cr. Lectures on Dante's life and times, reading of the *Divine Comedy*, comment, discussions, reports. Offered 1929–30 and in alternate years. Mr. Russo.

161. ORIGINS AND TRECENTO. Yr; 2 cr. Italian literature from its earliest documents up to the end of the fourteenth century, excluding the *Divine Comedy*. Conducted in Italian. Not offered 1930–31. Mr. Russo.

GEOGRAPHY

VERNOR CLIFFORD FINCH, Ph.D., *Professor of Geography, Chairman*
RAY HUGHES WHITBECK, B.A., *Professor of Geography* (on leave II)
GLENN THOMAS TREWARTHA, Ph.D., *Associate Professor of Geography*
LOYAL DURAND, JR., M.A., *Instructor in Geography*
LYNN HARVEY HALVERSON, M.A., *Instructor in Geography*

The introductory courses in geography are 1–2 and 5–6. For a general survey of geography either of these courses should be followed by one or more of the regional courses, 101, 102, 103, 104, 110, and 111, and by one or more of the topical courses, 106, 127, and 145. Course 1–2 (formerly numbered 4) is the only course in geography that satisfies the science requirement for the B.A. degree. Geography 5 and 6 are consecutive introductory courses in general geography, and together they form a unit of work for one year. They are intended primarily for those expecting to enter the School of Commerce and for those desiring a general cultural background of world geography without laboratory training. Geography 5 includes (1) a brief survey of the elements of natural environment and (2) the economic geography of the United States. Geography 6 completes the study of the continents.

MAJOR. An undergraduate major in geography requires a minimum of 30 credits, including 12 credits of regional and topical courses and 4 credits of thesis. Courses 1–2 or 5–6 will normally be followed by course 140 and that by a selection of the regional and topical courses together with such

special courses (126, 131, 132, and 135) as the student may elect. Geography majors are urged to elect Geology 130, Physiography of the United States, concurrently with Geography 140, or as soon as may be after completing course 2 or 6. Geology 109, 134, 143, and 150 are also recommended. Major students who expect to teach geography should include course 346.

1. ELEMENTS OF NATURAL ENVIRONMENT. I; 5 cr. A general survey of the characteristics of the major types of land surfaces, climates, and soils that comprise the natural environment of man. Open to freshmen. Students who have taken Geology 1 may receive but three credits for the work in Geography 1 because of certain duplications in subject matter. Lab. fee $1.50. Lecture 11 TT; 6 hrs. lab. and field work; 2 hrs. quiz. Mr. Finch and staff.

2. GENERAL REGIONAL GEOGRAPHY. II; 5 cr. A general survey of the economic geography of the world by major regions. Prerequisite: Geography 1. Lab. fee $1.50. Lecture 11 TT; 6 hrs. lab. and field work; 2 hrs. quiz. Mr. Finch and staff.

5. REGIONAL ECONOMIC GEOGRAPHY. I; 3 cr. Open to freshmen. 9 MWF. Mr. Trewartha and staff.

6. REGIONAL ECONOMIC GEOGRAPHY. II; 3 cr. Open to freshmen. Prerequisite: Geography 5. 9 MWF. Mr. Trewartha and staff.

101. GEOGRAPHY OF NORTHERN EUROPE. II; 3 cr. Prerequisite: Sophomore standing. 1:30 MWF. Mr. Durand.

102. GEOGRAPHY OF SOUTH AMERICA. I; 3 cr. Prerequisite: Sophomore standing. 9 MWF. Mr. Whitbeck.

103. GEOGRAPHY OF NORTH AMERICA. II; 3 cr. Prerequisite: Geography 1 or 5 or consent of instructor. 10 MWF. Mr. Finch.

104. GEOGRAPHY OF WISCONSIN. I; 2 cr. Prerequisite: Sophomore standing. 1:30 TT. Mr. Durand.

106. AGRICULTURAL GEOGRAPHY. I; 3 cr. Prerequisite: Geography 1 or 5, or consent of instructor. 1:30 MWF. Mr. Finch.

110. GEOGRAPHY OF ASIA. I; 3 cr. Prerequisites: Geography 1 or 5, and consent of instructor. 11 MWF. Mr. Trewartha.

111. GEOGRAPHY OF MIDDLE AMERICA. II; 2 cr. Includes Mexico, Central America, and the West Indies. Prerequisite: Sophomore standing. Not offered 1930–31. Mr. Whitbeck.

126. CARTOGRAPHY AND GRAPHICS. I; 2 cr. Prerequisite: Geography 1 or 5, or consent of instructor. 1:30–3:30 TT. Mr. Finch.

127. INDUSTRIAL GEOGRAPHY. I; 3 cr. Prerequisite: Sophomore standing. 11 MWF. Mr. Whitbeck.

131. SUMMER FIELD COURSE IN PHYSIOGRAPHY AND GEOGRAPHY. 3 to 6 cr. During or following the summer session. Enrollment only by previous arrangement with the instructor. Mr. Durand.

132. GEOGRAPHIC SEMINARY. Yr; 2 cr. Prerequisite: Senior standing. 3:30–5:30 Tu. Mr. Whitbeck, Mr. Finch, Mr. Trewartha.

135. Field Practice in Economic Geography. II; 2 cr. Geography major or consent of instructor. 4:30 F and six Saturdays in field. Mr. Trewartha.

140. Climatography. Yr; 2 cr. Prerequisite: Geography 1 or 5. 11 TT. Mr. Trewartha.

145. The Geography of Foreign Markets. II; 3 cr. Prerequisite: Sophomore standing. Not offered 1930–31.

180. Special Work in Geography. I, II; 1–3 cr. Staff.

TEACHERS' COURSE

346. The Teaching of High-School Geography. II; 3 cr. Prerequisite: Geography 1. Offered 1929–30 and in alternate years. 10 TT.

GEOLOGY

Charles Kenneth Leith, Ph.D., *Professor of Geology, Chairman*
Warren Judson Mead, Ph.D., *Professor of Geology*
William Henry Twenhofel, Ph.D., *Professor of Geology*
Alexander Newton Winchell, M.S., Sc.D., *Professor of Geology*
Richard Conrad Emmons, Ph.D., *Assistant Professor of Geology*
Fredrik Turville Thwaites, M.A., *Lecturer in Geology*
Robert Rakes Shrock, Ph.D., *Instructor in Geology*

Major. A minimum of 30 credits, including thesis, is required. For students wishing a survey of the field for general educational purposes, courses 1, 2, 6, 7, and 8 are suggested. Course 1, General geology, is the principal introductory 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 short courses will be allowed to enter advanced courses only by special arrangement. Field work is given in connection with Geology 1, 11, 112, 114, 125, and 133.

GENERAL GEOLOGY

1. General Geology. Yr; 5 cr. Students who have not studied chemistry should consult with the instructor before electing this course. Students who have taken Geography 4 may receive but 3 credits for the work of the first semester in order to offset certain duplications of subject matter. The first semester is a study of the materials and structure of the earth, the surface of the earth, and the processes which modify materials, structure, and surface. Second semester, a study of earth history through geologic time and problems in geology or elementary paleontology. Lab. fee $1.50 each semester. Lecture 10 MTWTF; 2 hrs. lab. Mr. Twenhofel and staff.

2. Short Course in Geology. II; 3 cr. 9 MWF. Mr. Shrock.

9. Engineering Geology. Yr; 3 cr. A course in elementary geology for students in engineering. First semester required of juniors in civil engineering; both semesters required of students in mining engineering. Lab. fee $1.50 per semester. Lecture 9 MWF; lab. Mr. Mead, Mr. Andrew Leith.

11. MAPPING. II; 3 cr. Not open to freshmen. Application of plane table and other instruments to geologic and topographic mapping. Lab. fee $3.00. Mr. Thwaites.

125. FIELD WORK FOR ADVANCED STUDENTS. II; 1 cr. One week in May in alternate years is spent in geologic mapping of some selected area, usually in the iron or copper districts of Lake Superior or the zinc district of Wisconsin. Offered 1929–30 and in alternate years. In the semester following course 117, a ten-day trip is taken to the Lake Superior district, offering a survey of the region. Mr. Leith, Mr. Mead.

134. REGIONAL GEOLOGY. Yr; 2 cr. Prerequisites: Geology 1 or 9, 114, and senior standing. A study of world geology. Western hemisphere first semester, eastern hemisphere second semester. Offered 1929–30 and in alternate years. Mr. Twenhofel.

143. GLACIAL GEOLOGY. II; 3 cr. Prerequisite: Geology 1 or 9, or Geography 4. 3:30 MWF. Mr. Thwaites.

HISTORICAL GEOLOGY

22. ELEMENTARY PALEONTOLOGY. II; 2 cr. A study of extinct organisms. To be preceded by or taken with Geology 1 or 9 unless student has taken Zoology 1. Mr. Twenhofel.

112. HISTORICAL GEOLOGY AND STRATIGRAPHY. II; 5 cr. Prerequisites: Geology 1 and 121. Offered 1930–31 and in alternate years. 8 MWF. Mr. Twenhofel.

121. PALEONTOLOGY. I; 5 cr. Prerequisite: Geology 1. Offered 1930–31 and in alternate years. Lab. fee $1.00. Lecture 8 TT; lab. 8–10 MWF. Mr. Twenhofel.

135. HISTORY OF GEOLOGY. I; 1 cr. Prerequisites: Geology 1 or 9, Geography 4 and senior standing. Offered 1929–30 and in alternate years. Mr. Twenhofel.

233. STUDIES OF SEDIMENTS. II; 2 cr. Prerequisites: Geology 133, 108. Lab. fee $5.00. Mr. Twenhofel.

PHYSICAL GEOLOGY

52. ELEMENTARY ECONOMIC GEOLOGY. I; 3 cr. Prerequisites: Geology 1, 2, or 9, and 6 or 7. A study of the manner of occurrence, origin and uses of the metallic ores and the non-metallic mineral products. 10 MWF; 2 hrs. lab. Mr. Mead, Mr. Andrew Leith.

114. STRUCTURAL GEOLOGY. I; lect. 3 cr.; lab. 2 cr. The laboratory work includes map interpretation. Prerequisite: Geology 1. Lab. fee $3.00. Lect. 11 MWF; lab. 1:30–3:30 TT. Mr. Leith, Mr. Mead.

115. METAMORPHIC GEOLOGY. II; 5 cr. Prerequisites: Geology 1 and 6. Offered 1930–31 and in alternate years. Lab. fee $3.00. Lect. 11 MWF; lab 1:30–3:30 TT. Mr. Mead, Mr. Leith, Mr. Emmons.

117. PRINCIPLES OF PRE-CAMBRIAN GEOLOGY. I; 2 cr. Prerequisite: Geology 114. Offered 1930–31 and in alternate years. For field trips see course 125. 11 TT. Mr. Leith.

123. Oil Geology. II; 2 cr. Prerequisites: Geology 1 or 9, 114, and senior standing. Offered 1929–30 and in alternate years. Mr. Twenhofel.

133. Sedimentation. I; 5 cr. Prerequisites: Geology 1 or 9, 6, 114, and senior standing. Lect. 8 MWF; lab. Lab. fee $3.00. Mr. Twenhofel.

148. Seminary in Tectonic Geology. II; 1 cr. A review of current theories dealing with the causes and mechanics of major earth deformations. Offered 1929–30 and in alternate years. Mr. Mead.

149. Methods of Mineral Exploration. II; 2 cr. Deals with the geological and physical field methods employed in the search for and development of mineral deposits. Offered 1930–31 and in alternate years. 10 TT. Mr. Mead.

150. Economic Aspects of Geology. I; 2 cr. A general survey of the field of mineral resources from the standpoint of geographic and commercial distribution, valuation, taxation, conservation, and international relations. The international phase of the discussion will cover questions of foreign exploitation, the "open door," tariffs, and relations to war. This course is introductory to Geology 151. Offered 1929–30 and in alternate years. 11 TT. Mr. Leith, Mr. Mead.

151. Geology of Mineral Deposits. II; 5 cr. Prerequisites: Chemistry 1, Geology 6 or 7, and Geology 1, 2, or 9, and 52. Metallic and non-metallic mineral deposits are studied from the standpoint of mineralogy, field occurrence, and genesis. The principal mineral deposits will be taken up topically. It is desirable, but not essential, that this course be preceded by course 150. Lab. fee $3.00. Lect. 11 MWF; lab. 1:30–3:30 TT. Offered 1929–30 and in alternate years. Mr. Mead, Mr. Leith.

MINERALOGY AND PETROLOGY

6. General Mineralogy. Yr; 5 cr. Prerequisite: Chemistry 1 or a high-school course in chemistry. Lab. fee $10.00 per semester. I; Lect. 8 MWF; lab. 8–10 TT. II; Lect. 8 TT; lab. 8–10 MWF. Mr. Winchell, Mr. Emmons.

7. Short Course in Mineralogy. I; 2 cr. Prerequisite: Chemistry 1 or high-school course in chemistry. Lab. fee $10.00. 10–12 TT. Mr. Emmons.

8. Short Course in Lithology. II; 2 cr. The megascopic study of igneous and sedimentary rocks. Prerequisite: Chemistry 1 or a high-school course in chemistry. 3:30–5:30 MW. Mr. Emmons.

108. Petrology. Yr; 5 cr. Prerequisite: Geology 6 or 7. Lab. fee $10.00 per semester. 9–11 MTWTF. Mr. Winchell.

119. Petrology of Lake Superior Rocks. Yr; 3 cr. Prerequisite: Geology 108. Offered 1930–31 and in alternate years. Lab. fee $6.00 per semester. Mr. Winchell.

120. ADVANCED MINERALOGY. Yr; 2–4 cr. The relations between composition and optical properties in isomorphous groups. Prerequisite: Geology 6. Mr. Winchell.

129. PETROGENY. Yr; 2 or 3 cr. Prerequisite: Geology 108. Lab. fee $1.00 per semester. Mr. Winchell.

138. SOILS MINERALOGY. I; 2 cr. Prerequisite: Consent of instructor. Lab. fee $6.00. Mr. Emmons.

141. MINERAGRAPHY. II; 2 cr. Prerequisite: Geology 6. Lab. fee $6.00. Mr. Emmons.

PHYSIOGRAPHY

109. ADVANCED PHYSIOGRAPHY. I; 3 cr. Prerequisite: Geol. 1 or 9 or Geography 4. Offered 1930–31 and in alternate years. An advanced analytical study of land forms. 3:30 MWF. Mr. Thwaites.

130. PHYSIOGRAPHY OF THE UNITED STATES. Yr; 3 or 5 cr. Prerequisite: Geology 1, 2, or 9, or Geography 4. Lab. fee $1.00 per semester for 5 cr. only. 1:30 MWF; lab. Mr. Thwaites.

230. ADVANCED PHYSIOGRAPHY OF THE UNITED STATES. I; 3 cr. Prerequisites: Geology 134 or 114. Offered 1929–30 and in alternate years. Mr. Thwaites.

GERMAN

ALEXANDER RUDOLPH HOHLFELD, Ph.D., *Professor of German, Chairman*
FRIEDRICH BRUNS, Ph.D., *Professor of German*
MAX GRIEBSCH, *Professor of German*
BAYARD QUINCY MORGAN, Ph.D., *Professor of German* (on leave 1930–31)
ERNST KARL J. H. VOSS, Ph.D., *Professor of German Philology*
ADOLPHINE BIANCA ERNST, Ph.D., *Associate Professor of German*

INSTRUCTORS

EWALD PAUL APPELT, M.A.
STELLA M. HINZ, Ph.D.
PAULA MARGARETHA KITTEL, M.A.
ADA KLETT, M.A.
GERTRUDE KRAFFT, M.A.
ELLSWORTH ANDREWS MORGAN, M.A.
THEODORE SCHREIBER, M.A.
RUTH STALEY, M.A.
W. FREEMAN TWADDELL, M.A.

MAJOR: 32 credits, including thesis and at least 4 credits beyond course 100. For teaching major and minor, see under heading School of Education, page 88.

The Elementary Courses represent the work normally done in the first and second years, 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 from two- to five-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 be-

ing assigned to more advanced classes. Credit for the omitted lower work is granted upon successful completion of one semester's work in the German department. Such credits apply on the foreign-language requirement, but do not constitute a part of the 120 credits required for graduation. Students who show unusual ability in their elementary work are encouraged to secure departmental permission to omit German 1b or 2a, thereby completing courses 1a to 2b in three semesters and preparing themselves to enter more advanced courses that much sooner. This is almost necessary for students who wish to major or minor in German.

The Advanced Practice Courses are intended for specific practical ends, definitely stated in each case. None of these courses is required of students wishing to study German chiefly for its literature.

The Literary Courses are of very different degrees of advancement. The less advanced courses are divided into two groups designated A and B. Ordinarily students may not enter group B unless they have taken at least one course in group A, or its equivalent. Generally, about eight credits in these two groups combined are prerequisite for the higher courses in literature or 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.

While the Philology Courses are primarily intended for graduate students working for a higher degree in German, some of them are well suited to the needs of advanced undergraduates. This is especially true of courses 150, 151, and 191, which are so conducted as to be of direct benefit to properly qualified seniors.

DER DEUTSCHE VEREIN. Students and instructors who are interested in the study of the German language and literature and in German life and culture compose the German Club, which meets in general twice a month, while the University is in session. The programs comprise lectures, recitations, dramatic and musical performances, and social entertainments.

DAS DEUTSCHE HAUS. The German House, which is intended primarily for the benefit of students of German who wish to maintain or improve their speaking knowledge of the language, is open to women students for room and board, and both men and women residing outside the house may take their meals there. The house is in charge of a regular member of the German Department, and German is spoken at meals and is in general the language of the house. Members of the teaching staff of German birth and training live and board at the house and preside at the tables. Especially those students who intend to teach German are urged to room or board at the house, but all others who desire practice in hearing and speaking German are eligible to full membership and are welcome as table boarders. For further information, apply to German House, 508 North Frances Street, Madison.

ELEMENTARY COURSES

PROFESSOR B. Q. MORGAN, IN CHARGE

1a. FIRST-SEMESTER GERMAN. I, II; 4 cr. Text: Prokosch and Morgan, *Introduction to German*, lessons I–XXII. Pronunciation, grammar foundation, practice in writing (German script) and speaking.

1b. SECOND-SEMESTER GERMAN. I, II; 4 cr. *Introduction to German* completed; Storm, *Immensee* (Heath); supplementary reading, about 50 pages. Grammar study continued, further practice in writing and speaking, extensive reading begun, systematic work in translation. Prerequisite: German 1a, or one year of high-school German.

2a. THIRD-SEMESTER GERMAN. I, II; 4 cr. Purin–Rose, *Deutsche Kulturkunde* (Johnson); additional reading, largely fiction, about 100 pages. Grammar review and drill, oral practice, and written work. Prerequisite: German 1b, or two years of high-school German.

2b. FOURTH-SEMESTER GERMAN. I, II; 4 cr. Leskien, *Schuld* (Oxford), Schiller, *Wilhelm Tell* (or other verse drama), supplementary reading. Procedure in general as in German 2a. Prerequisite: German 2a, or equivalent.

9. BEGINNING GERMAN FOR GRADUATES. Yr; two hours per week; no credit. Leads up to German 16.

ADVANCED PRACTICE COURSES

10. COMPOSITION AND CONVERSATION. Yr; 2 cr. Prerequisite: Four credits in advance of German 2b, or a grade of B in German 2b. Required of all teaching majors and minors, unless German 112 is substituted. Formal written exercises and grammar review, with discussion in German. 8 TT. Mr. Bruns, Mr. Schreiber.

14. GERMANY OF TODAY. Yr; 2 cr. Reading and discussion of books, newspapers, and periodicals. Primarily for students in journalism and commerce. Prerequisite: German 2b or equivalent. 9 TT. Mr. Appelt.

16. PROSE READING FOR GRADUATES. Yr; two hours per week; no credit. For students preparing to secure the certificate of reading knowledge. Prerequisite: Two years of college German or equivalent.

19. SCIENTIFIC GERMAN. Yr; 2 cr. Translation course for students specializing in science. Especially desirable for students of medicine and chemistry. Prerequisite: German 2b or equivalent. Mr. E. A. Morgan.

40. ELEMENTARY CONVERSATION. Yr; 1 cr. Prerequisite: German 2b or equivalent. Class discussion in German of simple topics, anecdotes, poems, pictures, etc. 10 TT. Miss Kittel.

41. INTERMEDIATE CONVERSATION. Yr; 1 cr. Prerequisite: Four credits in advance of German 2b, or sufficient ability in speaking German. Similar to German 40, but somewhat more advanced. 10 TT. Mr. Schreiber.

80. THESIS SUBSTITUTE. Yr; 2 cr. Advanced reading in a special field, with written reports. May be elected in lieu of a thesis by lower-group students. Staff.

100. THESIS. Yr; 2 cr. Staff.

112. ADVANCED PRACTICE IN SPEAKING AND WRITING GERMAN. Yr; 2 cr. For students who have a good command of German grammar and wish to achieve fluency and ease in the writing of German. Strongly recommended to teaching candidates working for an M.A. degree. 2:30 TT. Mr. Griebsch.

SUPPLEMENTARY COURSES

These courses do not count toward the German major, nor toward the language requirement.

75. GERMAN CLASSICS IN ENGLISH TRANSLATION (Comp. Lit. 75). Yr; 2 cr. A study of selected masterpieces of German literature, taken up entirely in English. Not open to freshmen. Lectures, assigned reading, discussions, and topics. The first semester begins with the *Nibelungenlied* and ends with Schiller; the second semester begins with Goethe and comes down to modern times. Not offered 1930–31. Mr. Hohlfeld.

111. GERMANY AND HER INSTITUTIONS. II; 2 cr. Lectures in English; collateral reading (in German for graduate credit). Especially recommended to those who wish to prepare themselves as teachers of German. The geography and history of Germany; political organization, educational system, and cultural development of modern Germany. 9 TT. Mr. Griebsch.

141. PRINCIPLES AND PRACTICE OF TRANSLATION (Comp. Lit. 141). II; 1 or 2 cr. For students with advanced training in French, German, Italian, or Spanish. Offered 1929–30 and in alternate years. Mr. B. Q. Morgan.

347. THE TEACHING OF GERMAN. I; 3 cr. For seniors and graduates. Required of all candidates for the University Teachers' Certificate. Includes practice teaching in the Wisconsin High School. Lectures, discussions, observations, and reports. No language credit. Graduate credit only by special arrangement. 2:30 MW. Mr. Griebsch.

GERMAN LITERATURE—GROUP A

These courses are intended primarily for students who have had German 2b or its equivalent. Students having more than four credits in advance of German 2b will be required to do additional work to receive full credit, and not more than two courses in this group may regularly be taken for credit.

To make suitable four- or five-hour combinations, 14, 15, 18, or 20 may be combined with 40 or 41.

3. SELECTED MASTERPIECES. II; 4 cr. Prerequisite: German 2b, or four years of high-school German. Reading, grammar, composition, conversation. Reading includes Sudermann, *Frau Sorge*, and Goethe, *Hermann und Dorothea*. 8 MWFS.

15. CLASSICAL AND MODERN WRITERS. Yr; 3 cr. Reading, grammar, composition, conversation. Not open to students who have had German 3. First semester reading, same as German 3; second semester reading includes Goethe, *Iphigenie auf Tauris*. 9 TTS. Miss Hinz.

17. MODERN GERMAN DRAMA. Yr; 2 cr. Two sections. A rapid reading course in the 19th-century drama, about 250 pages each semester. Offered 1930–31 and in alternate years.

18. MODERN GERMAN NOVEL. Yr; 2 cr. Two sections. A rapid reading course. Reading of 19th- and 20th-century fiction, about 450 pages each semester. Offered 1929–30 and in alternate years.

20. SCHILLER. Yr; 2 cr. Three sections. An intensive reading course. First semester, *Die Braut von Messina*, life of Schiller. Second semester, *Wallenstein*. Mr. Appelt.

GERMAN LITERATURE—GROUP B

These courses are open to students who have had at least four credits in advance of German 2b. The chief emphasis is laid upon the interpretation of literature, some of the discussions being conducted in German. Not more than 8 credits may be taken in this group for full credit.

21. GERMAN POETRY. II; 2 cr. The study of one lyric poet (e. g., C. F. Meyer or Mörike) and an anthology of nineteenth-century lyrics. Offered 1930–31 and in alternate years. 9 TT. Mr. Bruns.

22. HEBBEL. I; 2 cr. Three or four tragedies; study of Hebbel's tragic theory. Offered 1930–31 and in alternate years. 9 TT. Mr. Bruns.

24. LESSING. Yr; 2 cr. First semester, *Minna von Barnhelm, Emilia Galotti*, early dramas, life of Lessing; second semester, *Nathan der Weise, Erziehung des Menschengeschlechts*. Offered 1929–30 and in alternate years. 11 TT. Mr. Voss.

25. GOETHE. Yr; 2 cr. First semester, *Götz, Laune des Verliebten*, life of Goethe; second semester, *Egmont, Tasso*. Offered 1930–31 and in alternate years. 11 TT. Mr. Voss.

27. NINETEENTH-CENTURY DRAMA. Yr; 2 cr. First semester, Grillparzer; second semester, Hauptmann, Hofmannsthal. Offered 1929–30 and in alternate years. 11 MW. Mr. Bruns.

GERMAN LITERATURE—ADVANCED COURSES

130. GOETHE'S *FAUST*. Yr; 2 cr. Lectures in German. First semester, *Faust*, part I; second semester, part II. Offered 1929–30 and in alternate years. 10 MW. Mr. Hohlfeld.

131. SURVEY OF GERMAN LITERATURE. Yr; 2 or 3 cr. Lectures in German, with outside reading of representative works from the eighth century to the present. Special emphasis is laid on the relation of literature to other fields of German culture and to the literatures of England and France. Required for the teaching major. 9 MWF. Mr. Hohlfeld.

134. LYRIC POETRY OF THE NINETEENTH CENTURY. Yr; 2 cr. The development of German lyric poetry since 1750, with special emphasis on parallel movements in art and philosophy. Lectures in German, assigned reading, and semester topics. Offered 1929–30 and in alternate years. 11 TT. Mr. Bruns.

149. THE ROMANTIC MOVEMENT IN GERMANY. Yr; 2 cr. The precursors, the Romantic School proper, and the later romanticists. Lectures in German, assigned reading, and semester topic. Offered 1930–31 and in alternate years. 11 TT. Mr. Bruns.

180. SPECIAL READING. Advanced study in a given literary field under the guidance of a member of the department. Credit and conference hours to be arranged.

200. GRADUATE RESEARCH. Investigations unrelated to any particular course or seminary, carried on in consultation with a member of the department. Credit and conference hours to be arranged.

246. BIBLIOGRAPHY AND METHODS. Yr; once a week; no cr. Required of all members of the proseminary or seminary in literature. 2:30 F. Mr. Hohlfeld.

247. PROSEMINARY IN GERMAN LITERATURE. Yr; 2 cr. Investigations of limited compass to prepare graduate students for the more advanced work of the seminary proper. In 1930–31 the field of study will be the lyric of the 19th century. Mr. Bruns.

248. SEMINARY IN GERMAN LITERATURE. Yr; 2 cr. 4–6 Th. Mr. Hohlfeld. The general fields from which problems are chosen for investigation form a cycle of three years:
1928–29: First semester, Goethe; second semester, Goethe's *Faust*.
1929–30: Interrelations of German and English literature.
1930–31: The German drama of the nineteenth century.

GERMAN PHILOLOGY

Courses 150 and 151 are given partly in German and partly in English; the others in German, except 191, which is given in English.

150. HISTORY OF THE GERMAN LANGUAGE. II; 2 cr. Reading of selected texts to illustrate the historical development of the language, especially during the Modern High German period. 11 MW. Mr. Voss.

151. ELEMENTARY MIDDLE HIGH GERMAN. I; 2 cr. Lectures on the German folk epics and on German life in the twelfth century. Study of the *Nibelungenlied*. 11 MW. Mr. Voss.

152. ADVANCED MIDDLE HIGH GERMAN. II; 2 cr. Studies in the language and literature of the twelfth and thirteenth centuries. Lectures and critical study of texts. 10 MW. Mr. Voss.

153. EARLY MODERN HIGH GERMAN. I; 2 cr. Offered 1930–31 and in alternate years. Mr. Voss.

154. GOTHIC. I; 2 cr. Grammar and readings from the gospels. Offered 1930–31. Mr. Voss.

155. OLD HIGH GERMAN. I; 2 cr. Special attention is given to Germanic life and culture. Offered 1931–32. Mr. Voss.

156. OLD SAXON. I; 2 cr. Offered 1931–32 and in alternate years. Mr. Voss.

164. MODERN AND MIDDLE LOW GERMAN. I; 2 cr. *Reinke de Vos* and Fritz Reuter's prose writings. Given when demand warrants. Mr. Voss.

191. PHONETICS. II; 2 cr. With special reference to the teaching of German. Conducted in English. 2:30 MW. Mr. B. Q. Morgan.

269. PHILOLOGICAL PROSEMINARY. II; 2 cr. Offered 1929–30. Mr. Voss.

270. PHILOLOGICAL SEMINARY. Yr; 2 cr. Special attention is given to the classical writers of the Middle High German period; but also the other periods, especially the transition from Middle to Modern High German, are studied. The fields of investigation form a cycle of three years. 4:20–6 Tu. Mr. Voss.
1928–29: Wolfram von Eschenbach.
1929–30: Gottfried von Strassburg.
1930–31: Hartman's *Iwein*, first semester; Early Modern High German, second semester.

GREEK

See Classics, page 130.

HISTORY

FREDERIC LOGAN PAXSON, Ph.D., *Professor of History, Chairman*
EUGENE HUGH BYRNE, Ph.D., *Professor of History*
CARL RUSSELL FISH, Ph.D., *Professor of History* (on leave II)
CHESTER PENN HIGBY, Ph.D., *Professor of History*
PAUL KNAPLUND, Ph.D., *Professor of History*
GEORGE CLARKE SELLERY, Ph.D., LL.D., *Professor of History*
ALEXANDER ALEXANDER VASILIEV, Ph.D., *Professor of History*
LAURANCE JAMES SAUNDERS, Ph.D., *Associate Professor of History*
CURTIS PUTNAM NETTELS, Ph.D., *Assistant Professor of History*
DELOS SACKETT OTIS, Ph.D., *Assistant Professor of History*
BURR WENDELL PHILLIPS, M.A., *Assistant Professor in the Teaching of History*
JAMES LEE SELLERS, Ph.D., *Assistant Professor of History* (on leave 1930–31)

When history is offered as one of the required studies in the general course leading to the degree of Bachelor of Arts (see page 58), the requirement must be satisfied by a continuous three-credit course extending through two semesters.

The courses in history are divided into three groups: (a) Courses numbered under 100 carry only undergraduate credit. The introductory courses 1, 5, and 10 are the courses open to freshmen. Students may take only one of these courses for three credits a semester, since each contains introductory training for which credit ought not to be given twice; that is,

if they have had or are taking one of these courses for full credit, another may be taken from this group for two credits a semester only, omitting the supplementary reading and a topical report. Students not registered in the College of Letters and Science may take any of the introductory courses for two credits each semester. Course 349 is primarily for students who expect to teach history in a secondary school. Students are advised not to neglect advanced work in an attempt to cover all of the introductory courses. (b) Courses numbered in the 100 series 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. (c) Courses numbered above 200 are open only to graduate students.

HONORS IN HISTORY. Honors in history are awarded upon special examination at the close of the senior year to students who have been accepted as candidates after taking the Admittance-to-Honors examination at the beginning of the junior year. The special studies of these students may be pursued, after agreement with the major professor, in regular courses or in History 180. For further details the department should be consulted.

MAJOR. Not less than 32 nor more than 40 credits in history to include: 6 credits in one of the freshman courses, History 1, 5, or 10; 6 credits in History 4; at least 16 credits in advanced courses at Wisconsin, of which, for upper-group students (see p. 56), 4 shall be devoted to a thesis. Outside the department, Economics 1a and Political Science 1 are required, and Geography 4 is recommended.

TEACHING MAJOR AND MINOR. See School of Education, page 88.

INTRODUCTORY COURSES OPEN TO FRESHMEN

(Only one of these courses may be taken for three credits.)

1. MEDIEVAL HISTORY. Yr; 3 or 2 cr. Humanities students who elect this course must take it for 4 credits. 10 MW; quiz. Mr. Byrne and staff.

5a-b. ENGLISH HISTORY. Yr; 3 or 2 cr. 10 TT, 1:30 MW, or 8 MW; quiz. Mr. Knaplund, Mr. Nettels, Mr. Saunders, and staff.

5b-a. ENGLISH HISTORY. Yr; 3 or 2 cr. This course commences in the second semester but is otherwise identical with History 5a-b. 8 MW; quiz. Staff.

10. ANCIENT HISTORY. Yr; 3 or 2 cr. 9 TT; quiz. Mr. Vasiliev and staff.

INTRODUCTORY COURSES NOT OPEN TO FRESHMEN

2. MODERN EUROPEAN HISTORY. Yr; 3 or 2 cr. Prerequisite: Sophomore standing. 8 TT; quiz. Mr. Higby.

4a-b. HISTORY OF THE UNITED STATES. Yr; 3 cr. Seniors may elect for two or three credits. Prerequisite: Sophomore standing. 11 MWF. Mr. Fish and staff.

4b-a. HISTORY OF THE UNITED STATES. Yr; 3 cr. Seniors may elect for two or three credits. This course commences in the second semester but is otherwise identical with History 4a-b. Prerequisite: Sophomore standing. 1:30 MWF. Mr. Otis.

TRAINING COURSES AND SPECIAL WORK

180. SPECIAL WORK. Students who have passed the Admittance-to-Honors examination of the Department of History, and other upper-class history major students of known capacity, may, by agreement with the major professor, arrange for special out-of-class work, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to the special project.

190. SPECIAL PROBLEMS IN THE TEACHING AND SUPERVISION OF HISTORY AND THE SOCIAL STUDIES. I, II; 2 cr. An intensive study of special problems. Open to graduate students and teachers with experience. Consent of instructor required. 3:30–5:30 Tu. Mr. Phillips.

252. HISTORICAL METHOD. Yr; 1 cr. Introductory course. Graduate students in their first year are expected to take this course. 3:30 W.

280. SPECIAL WORK. During the recesses of the University, and in regular terms, by agreement with the major professor, properly qualified graduate students may undertake special out-of-class work, generally upon research problems, for which credit may be allowed on the basis of one credit for each week, or its equivalent, devoted exclusively to the special project.

349. THE TEACHING OF HISTORY AND THE SOCIAL STUDIES. I, II; 2–4 cr. Required of seniors for the teachers' major or minor. Combined with educational practice. Prerequisites: Education 75, senior standing, and teaching major or minor in history. 3:30 MWF and additional hours to be arranged in consultation with instructor. Mr. Phillips.

ANCIENT AND MEDIEVAL HISTORY

127. HELLENISTIC CIVILIZATION. I; 2 cr. Prerequisite: Junior standing or consent of instructor. Offered 1929–30 and in alternate years. 10 TT. Mr. Vasiliev.

129. THE FALL OF BYZANTIUM. II; 2 cr. Prerequisite: Junior standing or consent of instructor. Offered 1929–30 and in alternate years. 10 TT. Mr. Vasiliev.

131. MEDIEVAL CIVILIZATION. I; 3 cr. Prerequisites: History 1 or 5, and junior standing. 10 TT; conference. Mr. Sellery.

133. MEDIEVAL COMMERCE. II; 2 cr. Through the formation of the great trading companies. Not offered 1930–31. Mr. Byrne.

134. THE RENAISSANCE. II; 3 cr. Prerequisites: History 1, 2, or 5, and junior standing. 10 TT; conference. Mr. Sellery.

135. HISTORY OF THE LATER ROMAN EMPIRE. Yr; 2 cr. Prerequisite: Junior standing or consent of instructor. 10 TT. Mr. Vasiliev.

141. ENGLISH CONSTITUTIONAL HISTORY. Yr; 3 cr. Prerequisite: History 1, 5, or 10. 11 MWF. Mr. Byrne.

253. LATIN PALEOGRAPHY. II; 1 cr. Elements of paleography, with practical exercises in reading of manuscripts. Hours to be arranged. Mr. Byrne.

254. SEMINARY IN ANCIENT HISTORY. Yr; 2 cr. A reading knowledge of Greek and Latin is required. 2:30–4:30 Tu. Mr. Vasiliev.

257. SEMINARY IN MEDIEVAL HISTORY. Yr; 2 cr. Studies in the economic history of the Middle Ages. Prerequisite: A reading knowledge of Latin, French, and German. 4–6 Th. Mr. Byrne.

268. SEMINARY IN MEDIEVAL TOWNS. II; 2 cr. Prerequisite: A reading knowledge of French and Latin. 2:30–4:30 M. Not offered in 1930–31.

MODERN HISTORY

136. HISTORY OF FRANCE, 1491–1715. II; 2 or 3 cr. Prerequisite: History 1, 5a, or junior standing. 11 TT. Not offered in 1930–31.

138. THE FRENCH REVOLUTION AND NAPOLEON, 1793–1815. II; 3 cr. Prerequisite: Junior standing or consent of instructor. 10 MWF. Not offered in 1930–31.

139. EUROPE SINCE 1815. Yr; 3 cr. Prerequisite: Junior standing. 11 MWF. Mr. Higby.

140. THE REFORMATION. I; 3 cr. Prerequisites: History 1, 2, or 5, and junior standing. Offered 1929–30 and in alternate years. 10 TT; conference. Mr. Sellery.

142. ENGLAND UNDER THE TUDORS AND STUARTS. Yr; 3 cr. Prerequisite: Junior standing or consent of instructor. Not offered 1930–31. 9 TT; conference. Mr. Knaplund.

143. THE BRITISH EMPIRE SINCE 1815. Yr; 3 cr. Prerequisite: Junior standing or consent of instructor. 9 TT; conference. Mr. Knaplund.

145. THE RISE OF PRUSSIA. Yr; 2 cr. Prerequisite: Junior standing or consent of instructor. 7–9 M.

146. HISTORY OF THE GERMAN PEOPLE. Yr; 2 cr. Prerequisite: Sophomore standing. 1:30 TT.

147. MODERN BRITAIN, 1815–1925. Yr; 3 cr. Not offered 1930–31. Mr. Knaplund.

167. PROSEMINARY IN EUROPEAN ENLIGHTENMENT. II; 2 cr. Open to graduates and undergraduates with adequate preparation. 3:30–5:30 Tu. Not offered in 1930–31.

177. EUROPE, 1648–1789. Yr; 3 cr. Prerequisite: Junior standing or consent of instructor. 9 MWF. Mr. Saunders.

258. SEMINARY IN HISTORY OF THE BRITISH EMPIRE. Yr; 2 cr. A study of some aspects of imperial relations. 1:30–3:30 Tu. Mr. Knaplund.

267. SEMINARY IN MODERN EUROPEAN HISTORY. Yr; 2 cr. 3:30–5:30 F. Mr. Higby.

AMERICAN HISTORY

111. HISTORY OF THE WEST, 1763–1893. Yr; 3 or 2 cr. Prerequisite: Junior standing. 9 MWF. Mr. Paxson.

112. REPRESENTATIVE AMERICANS. II; 3 cr. Prerequisite: History 4a or junior standing. Not offered 1930–31. 1:30 MWF. Mr. Fish.

114. HISTORY OF THE SOUTH, 1607–1900. Yr; 3 cr. Social and economic institutions and changes. Prerequisite: Junior standing. 9 TT; conference. Not offered 1930–31.

116. AMERICAN COLONIAL HISTORY. Yr; 3 or 2 cr. Prerequisite: An elementary course or junior standing. 10 MWF. Mr. Nettels.

117. AMERICAN CONSTITUTIONAL HISTORY, 1600–1925. Yr; 3 or 2 cr. Prerequisite: An elementary course or junior standing. 10 MWF. Not offered 1930–31.

118. CIVIL WAR AND RECONSTRUCTION, 1860–1876. I; 3 cr. Prerequisite: History 4 or junior standing. 1:30 MWF. Mr. Fish.

120. AMERICAN FOREIGN POLICY, 1783–1928. I; 3 cr. Prerequisite: History 4 or junior standing. Not offered 1930–31. 1:30 MWF. Mr. Fish.

124. RECENT HISTORY OF THE UNITED STATES, 1873–1929. Yr; 3 or 2 cr. Prerequisite: Junior standing. 11 MWF. Mr. Paxson.

261. SEMINARY IN AMERICAN HISTORY. Yr; 2 cr. Studies in social and economic problems of the Civil War and Reconstruction periods in their relation to politics. 3:30–5:30 Tu. Mr. Fish.

262. SEMINARY IN AMERICAN HISTORY. Yr; 2 cr. Two sections, concerned respectively with problems in recent and in western history. 2:30–4:30 M; 1:30–3:30 Tu. Mr. Paxson.

263. SEMINARY IN AMERICAN COLONIAL HISTORY. Yr; 2 cr. 3:30–5:30 M. Mr. Nettels.

INDUSTRIAL EDUCATION AND APPLIED ARTS

ALANSON HARRISON EDGERTON, Ph.D., *Professor of Guidance, Chairman*
WILLIAM HARRISON VARNUM, B.P., *Associate Professor of Applied Arts*
JAMES MORGAN DORRANS, *Assistant Professor of Mechanical Practice*
JOHN FRANK FRIESE, B.S., *Assistant Professor of Industrial Education*
ROLAND SEWART STEBBINS, *Assistant Professor of Applied Arts*
DELLA FORD WILSON, M.A., *Assistant Professor of Applied Arts*
HOWARD BAILEY DOKE, *Instructor in Drawing and Descriptive Geometry*
ROY HINDERMAN, M.S., *Instructor in Industrial Education*
HELEN WANN ANNEN, B.A., B.F.A., *Instructor in Applied Arts*
RAMOND HENDRY WILLIAMS, B.S., *Instructor in Applied Arts*

Starred courses (⋆) may be counted for credit only toward the degree of Bachelor of Science, Industrial Education, or Bachelor of Science, Applied Arts. See School of Education, pages 93–96.

For courses in vocational guidance and vocational education, see Department of Education, page 154.

INDUSTRIAL EDUCATION

INDUSTRIAL ARTS FOR TEACHING AND JUNIOR EXECUTIVE WORK

*4. ELEMENTARY SHOP PROBLEMS. Yr; 2–4 cr. Elementary construction problems in carpentry, furniture making, sheet metal, electrical wiring, printing, machine shop, etc. Lab. fee $1.50; deposit $1.50 per credit. 8–9 MTWTF. Mr. Hinderman.

*8. ADVANCED SHOP PROBLEMS. Yr; 1–4 cr. Construction problems in pattern making and foundry, machine shop, forge and bench work. Lab. fee $3.00 a credit. Hours to be arranged. Mr. Dorrans and staff.

*18. ARCHITECTURAL DRAWING. II; 3 cr. Prerequisite: Industrial Education 1. 10–12 MWF. Mr. Friese, Mr. Hinderman.

91. ANALYSIS AND DIRECTION OF ART AND INDUSTRIAL VOCATIONS. I; 2–3 cr. Prerequisite: Junior standing. 10 MW. Mr. Friese.

100. SENIOR THESIS IN INDUSTRIAL ARTS. Yr; 2 cr. Mr. Friese.

114. OCCUPATIONAL VISITATION AND INFORMATION. II; 2 cr. Prerequisite: Junior standing. 1:30 TT. Mr. Dorrans.

116. VOCATIONAL GUIDANCE AND COUNSELING TECHNIQUES. II; 2 cr. 10 MW. Mr. Edgerton.

124. INDUSTRIAL ARTS COORDINATION. I, II; 2–4 cr. Prerequisite: Junior standing. Mr. Friese.

153. DIRECTION AND SUPERVISION OF VOCATIONAL EDUCATION. II; 2 cr. Offered 1929–30 and in alternate years. Prerequisite: Junior standing. 9 MW. Mr. Friese.

157. ADVANCED PROBLEMS IN PART-TIME SCHOOL EDUCATION. II; 2 cr. Prerequisite: Junior standing. 4–5:45 Tu. Mr. Thayer, Mr. Edgerton.

225. SEMINARY IN INDUSTRIAL ARTS. Yr; 2 cr. 4–6 W. Mr. Friese.

TEACHERS' COURSES

363. TEACHING OF INDUSTRIAL ARTS. I; 3 cr. Prerequisite: Junior standing. 9 MW. Mr. Friese.

364. ADMINISTRATION OF SECONDARY SCHOOL INDUSTRIAL ARTS. II; 2–3 cr. Prerequisite: Junior standing. Gives graduate credit. 9 TT. Mr. Friese.

365. ADVANCED PROBLEMS IN TEACHING EXPLORATORY INDUSTRIAL ARTS. II; 2 or 3 cr. Prerequisite: Industrial Education 363 (90) or senior standing. Gives graduate credit. Mr. Friese.

368. ADVANCED PROBLEMS IN THE SUPERVISION OF PRACTICAL ARTS. I; 2 cr. Mr. Friese.

See Group IV, page 154, for additional departmental elective subjects.

APPLIED ARTS

DRAWING, PAINTING, DESIGN, ART-CRAFTS, AND ART IN INDUSTRY

In this Department all unstarred courses are offered as general electives for properly qualified students. Starred (⋆) courses may be counted for credit only toward the degree of Bachelor of Science, Applied Arts. See School of Education, pages 94–96.

Students who desire to supplement, by studio participation, courses offered in other departments, should enroll in the following courses: Speech 19 and Applied Arts 140, Stage design; Art History 101 and Applied Arts 60, Block printing and etching; Art History 50 or 54 and Applied Arts 50 (Section 3, Tools, materials, and technic of the artist).

1. ELEMENTS OF MECHANICAL DRAWING. I; 3 cr. Constructive and instrumental drawing. 8–10 MWF. Lab. fee $1.00. Mr. Doke.

⋆7a. FREEHAND LETTERING. I, II; 1 or 2 cr. Construction and composition of Classic Roman capitals, lower-case letters, English Gothic, black letter, and modern script. Special emphasis given to the choice of lettering styles in advertising design. 8–10 TT. Lab. fee $0.75. Mr. Doke.

⋆7b. ADVANCED FREEHAND LETTERING. I, II; 2 cr. Prerequisite: Applied Arts 7a. 10–12 TT. Lab. fee $0.75. Mr. Doke.

⋆18. ARCHITECTURAL DRAWING. (See Industrial Education 18.)

50. FREEHAND DRAWING AND PERSPECTIVE. I; 3 cr. Open to freshmen. Lab. fee $1.25. 3 sections.

51. FREEHAND DRAWING; LIGHT AND SHADE. II; 3 cr. Prerequisite: Applied Arts 50. Lab. fee $3.00. 2 sections.

52. ELEMENTARY WATERCOLOR RENDERING. II; 3 cr. Prerequisite: Applied Arts 50 or equivalent. Lab. fee $1.75. 10–12 TTS. Mrs. Annen.

54. ELEMENTARY MODELING. I; 1 cr. II; 2 cr. Lab. fee $6.00. 1:30–3:30 TT. Miss Wilson.

55. ADVANCED DRAWING AND ANATOMY. Yr; 2 or 3 cr. Prerequisite: Applied Arts 51 or consent of instructor. Lab. fee $4.00 per semester. 1:30–3:30 TT. Mr. Stebbins.

56. ELEMENTARY OIL PAINTING. Yr; 3 cr. Prerequisites: Applied Arts 50 and 51. Lab. fee $1.75; deposit $1.25. 1:30–3:30 MWF. Mr. Stebbins, Mrs. Annen.

⋆57. MECHANICAL PERSPECTIVE AND ARCHITECTURAL RENDERING. II; 3 cr. Prerequisites: Applied Arts 1, 18, and 50. Lab. fee $2.00. 8–10 MWF. Offered 1929–30 and in alternate years. Miss Wilson and special lecturers.

60. BLOCK PRINTING AND ETCHING. II; 2 cr. Prerequisites: Applied Arts 51, 62; also open to students registered or with credit in Art History 101 or 102. Lab. fee $4.50. 1:30 TT. Offered 1929–30 and in alternate years. Mr. Varnum.

62. ELEMENTARY DESIGN. Yr; 3 cr. Prerequisites: Applied Arts 1, 50. Lab. fee $1.00. 10–12 MWF. 1:30–3:30 MWF. Mrs. Annen.

63 ART IN INDUSTRY. Yr; 3 or 4 cr. Prerequisites: Applied Arts 7a, 50, and 62. Lab. fee $1.50 per semester. 8–10 MWF. Mr. Varnum.

68. ADVANCED MODELING AND ART GLASS. II; 3 cr. Prerequisites: Applied Arts 54 and 62. 10–12 MWF. Lab. fee $7.00. Offered 1930–31 and in alternate years.

70. ART METAL. Yr; 3 cr. Copper, silver, gold, pewter. Lab. fee $7.00. 10–12 MWF. Mr. Williams.

71. ELEMENTARY POTTERY. Yr; 2 cr. Prerequisite: Applied Arts 62. Lab. fee $6.00. Offered 1929–30 and in alternate years. Miss Wilson.

72. DESIGN APPLIED TO INDUSTRIAL PRODUCTS. I; 1–3 cr. 10–12 MWF. Mr. Friese.

91. ANALYSIS AND DIRECTION OF ART AND INDUSTRIAL VOCATIONS. I; 2–3 cr. Prerequisite: Junior standing. 10 TT. Mr. Friese, Mr. Varnum.

100. SENIOR THESIS IN APPLIED ARTS. Yr; 2 cr. Mr. Varnum and staff.

124. APPLIED ARTS COORDINATION. I, II; 2–4 cr. Prerequisites: One semester of Applied Arts 63 and junior standing. 3:30 Tu. and assigned periods. Lab. fee $.50 per credit. Mr. Williams.

130. PRO-SEMINARY, ART IN INDUSTRY. II; 2 cr. Prerequisites: Junior standing and Applied Arts 124. 7:30–9:30 Tu. Mr. Varnum.

131. COMPOSITION. I; 2 cr. Prerequisite: Applied Arts 62. 1:30 TT. Offered 1929–30 and in alternate years. Mr. Varnum.

132. PORTRAIT AND DECORATIVE PAINTING. Yr; 2 or 3 cr. Prerequisite: Applied Arts 56. Lab. fee $5.00. 9–12 TT. Mr. Stebbins.

134. PRO-SEMINARY IN APPLIED ARTS. I; 2 cr. Open to graduate students and seniors with adequate preparation. 4–6 Tu. Mr. Varnum.

140. STAGE DESIGN. II; 2 cr. Application of principles of design to scenic art. Prerequisite: Applied Arts 62. Also open to students registered or with credit in Speech 19, or with graduate standing in speech. 3:30 TT. Offered 1930–31 and in alternate years. Mr. Varnum.

180. TOPICAL ART PROBLEMS. II; 2 or 3 cr. Prerequisite: Senior standing. 3:30 TT. Miss Wilson.

TEACHERS' COURSES

304. ELEMENTARY SCHOOL ART AND INDUSTRIAL ARTS. Yr; 2 cr. Prerequisite: Junior standing. Lab. fee $6.00. 8–10 TT. Miss Wilson.

306. ORGANIZATION AND ADMINISTRATION OF SCHOOL ART. I; 2–4 cr. Prerequisite: Junior standing. 2:30 TT. Miss Wilson.

307. ART CURRICULUM CONSTRUCTION. I; 2 cr. Prerequisite: Junior standing. Gives graduate credit. 11 TT. Miss Wilson.

ITALIAN

See page 168.

JOURNALISM

WILLARD GROSVENOR BLEYER, Ph.D., *Professor of Journalism, Chairman*
GRANT MILNOR HYDE, M.A., *Professor of Journalism*
CHILTON ROWLETTE BUSH, M.A., *Associate Professor of Journalism*
KENNETH EUGENE OLSON, M.A., *Assistant Professor of Journalism*
HELEN MARGUERITE PATTERSON, M.A., *Assistant Professor of Journalism*

PURPOSE AND PLAN. 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 current problems of journalism in the light of their origin and development. They have been arranged to meet the needs of students in the School of Journalism, and those in the Colleges of Letters and Science, Agriculture, and Engineering who desire training in journalistic writing.

LABORATORY EQUIPMENT. The department has a large laboratory equipped like the city room of a newspaper office, with typewriters, reference books, maps, a "morgue," and a copy-desk. Adjoining this are a reading room with current files of representative American newspapers and journalistic periodicals, and a lecture room. To familiarize students of journalism with the principles of typography, the department has a typography laboratory for practical work in connection with the courses in editing, advertising, and newspaper administration.

MAJOR. The undergraduate major in journalism is offered only to candidates for the degree of Bachelor of Arts in Journalism. It requires not less than 30 credits, as outlined under the heading School of Journalism, on page 103.

★1. GENERAL SURVEY OF JOURNALISM. Yr; 1 cr. Required of freshmen in the pre-journalism curriculum. Practical talks on the character and scope of journalistic work, including a consideration of newspapers, magazines, technical and trade journals, agricultural publications, advertising, etc. 2:30 Tu or Th. Mr. Hyde.

2. NEWSPAPER REPORTING AND CORRESPONDENCE. Yr; 3 cr. Lectures and practice on the work of the reporter and the correspondent, including news gathering and writing. Students cover at least one newspaper assignment each week and have one weekly conference with the instructor. Required of all students in the School of Journalism. 10 or 11 MWF. Mr. Hyde and staff.

★3. COPY READING. Yr; 3 cr. Prerequisite: Journalism 2 or equivalent practical experience. 8 M and lab. Lab. fee $1.50. Mr. Olson.

★4. PRACTICAL TYPOGRAPHY. II; 1 cr. Two hours a week of instruction and laboratory work in the typography of advertisements. Mr. Olson.

★ Does not count toward the requirements for graduation from the College of Letters and Science except for students in the School of Journalism, and in other special courses as follows: Journalism 3 and 8 count also in the School of Commerce.

*7. THE COMMUNITY NEWSPAPER. I; 2 cr. Open only to juniors and seniors. 10 TT. Mr. Olson.

*8. NEWSPAPER ADMINISTRATION. II; 2 cr. Open only to juniors and seniors. 10 TT. Mr. Olson.

*13. MARKETING METHODS (Economics 13). I, II; 3 cr. Required of juniors in the journalism-advertising group. 9 M; two discussions. Mr. Fellows.

14. GERMANY OF TODAY (German 14). Yr; 2 cr. Reading and discussion of books, newspapers, and periodicals. Prerequisite: German 2b or equivalent. 9 TT. Mr. Appelt.

*15. PRINCIPLES OF ADVERTISING (Economics 15). I; 2 cr. Prerequisite: English 1b. 3:30 Th; discussion. Required of all students in the School of Journalism. Mr. Aurner, Mr. Fellows.

*16. ADVERTISING CAMPAIGNS (Economics 16). II; 2 cr. Prerequisites: Economics 13 and 15. Required of juniors in the journalism-advertising group. 3:30 Tu; discussion. Mr. Aurner, Mr. Fellows.

17. JOURNALISM IN SPAIN AND SPANISH AMERICA. Yr; 2 cr. A study of the current periodicals of the Spanish-speaking world, with supplementary readings and lectures to establish a background of the actual social, economic, and political conditions in the Hispanic countries. Attention will be devoted to journalistic methods and technique. Prerequisite: Spanish 10b or equivalent. 11 TT. First semester: Spain, Mr. Ortega. Second semester: Spanish-America, Mr. Neale-Silva.

18. FRANCE OF TODAY (French 18). Yr; 2 cr. Reading and discussion of books, newspapers, and periodicals. Prerequisites: French 10b and sophomore standing. 8 TT. Mr. Harris.

50–51. FREEHAND DRAWING AND ILLUSTRATION. (See Drawing 50–51).

100. THESIS. Yr; 2 cr. Staff.

104. EDITORIAL WRITING. I; 2 cr. Theory and practice of editorial writing; analysis of editorial policy; interpretation of current news. Required of all seniors in the School of Journalism. 9 TT. Mr. Bush.

105. WRITING OF SPECIAL ARTICLES. I; 2 cr. Lectures and practice in preparing special articles for newspapers and magazines. Not open to students below the junior year. Required of all students in the School of Journalism. 11 TT. Mr. Bush, Miss Patterson.

106. CRITICAL WRITING. II; 2 cr. The function of criticism in journalism; reviewing of motion pictures, plays, concerts, and books for newspapers. Open only to seniors. 9 TT. Mr. Bleyer.

107. MAGAZINE ARTICLES. II; 2 cr. Instruction and practice in the methods of popularizing scientific and technical material, including that in government and politics, economics, social service, and education. Prerequisite: Journalism 105. 11 TT. Mr. Bush.

* Does not count toward the requirements for graduation from the College of Letters and Science except for students in the School of Journalism, and in other special courses as follows: Journalism 3 and 8 count also in the School of Commerce.

109. THE LAW OF THE PRESS. II; 1 cr. Lectures and readings on libel, constitutional guarantees, copyright, and other phases of the laws affecting newspapers and periodicals. Required of all seniors in the School of Journalism. 1:30 Th. Mr. Hyde.

110. HISTORY OF JOURNALISM. I; 3 cr. A study of the evolution of the newspaper in England and the United States, with special reference to the problems of present-day journalism. Required of all seniors in the School of Journalism. 9 MWF. Mr. Bleyer.

111. THE PRINCIPLES OF JOURNALISM. II; 3 cr. Lectures, reading, and discussion on the relation of the newspaper to government and society; the influence, ethics, and psychology of journalism. Required of all seniors in the School of Journalism. 9 MWF. Mr. Bleyer.

112. REPORTING PUBLIC AFFAIRS. II; 2 cr. Instruction and practice in the methods of reporting local, state, and federal courts; municipal, state, and federal administration; bankruptcy, politics, finance, and public affairs. Prerequisite: Journalism 2. 9 TT. Mr. Bush.

123. WOMEN'S DEPARTMENTS IN NEWSPAPERS AND MAGAZINES. II; 2 cr. The writing and editing of material for women's departments in newspapers and magazines; publicity work for social service and educational institutions; syndicates, etc. 10 TT. Miss Patterson.

200. RESEARCH. I, II; 2–4 cr. Research work on newspaper problems. Staff.

201. SEMINARY IN JOURNALISM. Yr; 2 cr. Subject for 1930–31: American newspapers from 1910 to 1915. Mr. Bleyer.

202. SEMINARY IN JOURNALISM. Yr; 2 cr. Subject for 1930–31: Propaganda and the Press. Mr. Bleyer.

TEACHERS' COURSE

370. THE TEACHING OF JOURNALISM. I; 2 cr. Instruction and practice in the methods of teaching journalistic writing in secondary schools and journalism in colleges, of supervising student publications, and of using newspapers in class-room instruction. Required for the University Teachers' Certificate in Journalism. 10 TT. Miss Patterson.

LATIN

See Classics, page 131.

MATHEMATICS

WARREN WEAVER, Ph.D., *Professor of Mathematics, Chairman*
MARK HOYT INGRAHAM, Ph.D., *Professor of Mathematics*
RUDOLPH ERNEST LANGER, Ph.D., *Professor of Mathematics*
HERMAN WILLIAM MARCH, Ph.D., *Professor of Mathematics*
ERNEST BROWN SKINNER, Ph.D., *Professor of Mathematics*
CHARLES SUMNER SLICHTER, Sc.D., *Professor of Mathematics*
WALTER WILSON HART, B.A., *Associate Professor in the Teaching of Mathematics*
THEODORE BENNETT, Ph.D., *Assistant Professor of Mathematics*
HERBERT PULSE EVANS, Ph.D., *Assistant Professor of Mathematics*

INSTRUCTORS

FLORENCE ELIZA ALLEN, Ph.D.
JOHN VINCENT ATANASOFF, M.S.
ALICE MAY AUSTIN, M.A.
ROBERT OGDEN GILMORE, B.A.
HAROLD DANIEL LARSEN, B.A.
ROBERT EDWARD LOWNEY, M.A.
JAMES STUART MCNAIR, M.S.
JOHN ROBERTS MAYOR, M.A.
JOSEPH SELWYN ROSEN, M.S.
IVAN STEPHEN SOKOLNIKOFF, E.E.
PAUL LEROY TRUMP, M.S.
ALVA MAURICE TUTTLE, M.S.
JOHN ISAAC VASS, M.A.

In this department, courses 1 to 7 inclusive are planned to give a working knowledge of elementary mathematics. Mathematics 7 is required of students in the School of Commerce. Students who elect the minimum amount of mathematics in fulfillment of the optional requirement for the degree of Bachelor of Arts may choose eight credits from any of the elementary courses.

MAJOR. 21 credits which shall consist of Math. 5, 6, 112 or 113, and other courses numbered 100 or above, with the exception of Math. 136. Upper-group seniors are required to take the thesis course, Math. 100; the four credits thus earned count toward the 21-credit requirement. Students entering the junior class with advanced standing who expect to complete a major in mathematics in four semesters should previously have completed the equivalent of Math. 5. The requirements in mathematics as a major or minor subject for the teachers' certificate are given under the School of Education on page 90.

THE JUNIOR MATHEMATICAL CLUB, open to all students interested in the subject, meets twice a month.

ELEMENTARY COURSES

1. ALGEBRA. I, II; 4 cr. For students presenting one unit of algebra for entrance. Prerequisite to all other courses except 2. I—8, 9, 10, 11, 1:30, 2:30; II—10, 2:30. Mr. Skinner and staff.

2. TRIGONOMETRY AND ANALYTIC GEOMETRY. I, II; 4 cr. Prerequisite to all other courses except 1, 3, 7, and 24. I—10, 11, 2:30; II—8, 9, 11, 1:30. Mr. Skinner and staff.

3. ANALYTIC GEOMETRY. I, II; 3 cr. Prerequisite: Math. 2. Recommended to students presenting one and one-half units of algebra for admission and who have taken or are taking Math. 2. I—9, 1:30 MWF; II—2:30 MWF. Staff.

5a. DIFFERENTIAL CALCULUS. I, II; 3 cr. Prerequisite (or co-requisite): Math. 2 or 3. Students who intend to major in mathematics or science are advised to take this course, together with 5b, in the sophomore year. Corresponds roughly to Math. 54, 4 cr., offered primarily for engineering students but open to others. I—10 MWF; II—9, 1:30 MWF. Staff.

5b. INTEGRAL CALCULUS. I, II; 3 cr. Prerequisite: Math. 5a. I—11 MWF; II—10 MWF. Staff.

6. DETERMINANTS AND ANALYTIC GEOMETRY OF THREE DIMENSIONS. I, II; 3 cr. Prerequisite: Math. 2 or 3. 2:30 MWF.

7. THEORY OF INVESTMENT. I, II; 4 cr. Prerequisite: Math. 1 or 51. I—2:30 MTWF; II—8, 9, 11, 1:30, 2:30. Mr. Skinner and staff.

24. THEORY OF LIFE INSURANCE. II; 3 cr. Prerequisite: Math. 7 or equivalent. 2:30 MWF. Mr. Larsen.

50. SUBFRESHMAN ALGEBRA. I; no cr. For students who fail to pass the examination for admission to Math. 51. Staff.

51. ELEMENTARY MATHEMATICAL ANALYSIS. I, II; 5 cr. Required of freshmen in engineering. Mr. March, Mr. Weaver, and staff.

52. ELEMENTARY MATHEMATICAL ANALYSIS. I, II; 5 cr. A continuation of Math. 51. Required of freshmen in engineering. Mr. March, Mr. Weaver, and staff.

53. ELEMENTARY MATHEMATICAL ANALYSIS. I; 5 cr. A course for students whose work in the freshman year at other institutions has not included the entire content of Mathematics 51 and 52. Mr. March and staff.

54. DIFFERENTIAL AND INTEGRAL CALCULUS. I, II; 4 cr. Required of all sophomores in engineering. Mr. March, Mr. Weaver and staff.

55. CALCULUS. I, II; 4 cr. Continuation of Math. 54. Required of all sophomores in engineering. Mr. March, Mr. Weaver, and staff.

71. MATHEMATICS FOR AGRICULTURAL STUDENTS. I; 4 cr. Staff.

ADVANCED COURSES

Math. 5 or 55 is prerequisite to all courses in the following group, except 115, 125, 136, 137.

100. THESIS COURSE. Yr; 2 cr. 9 TT. Mr. Bennett, Mr. Skinner.

110. HIGHER MATHEMATICS FOR ENGINEERS. Yr; 3 cr. 8 MWF. Mr. Evans.

111. ADVANCED CALCULUS. I; 3 cr. 10 MWF. Mr. Skinner.

112. DIFFERENTIAL EQUATIONS. I, II; 3 cr. Primarily a working course for students in mathematics and physics. I—9 MWF; II—10 MWF.

113. THEORETICAL MECHANICS. Yr; 3 cr. 11 MWF. Mr. Slichter.

114. MODERN ANALYTIC GEOMETRY. I; 3 cr. 1:30 MWF. Mr. Bennett.

115. PROJECTIVE GEOMETRY. II; 3 cr. 1:30 MWF. Mr. Bennett.

116. HIGHER ANALYSIS. Yr; 3 cr. 9 MWF. Offered 1930–31 and in alternate years. Mr. March.

117. VECTOR ANALYSIS. II; 3 cr. Not offered 1930–31. Mr. Weaver.

118. THE THEORY OF PROBABILITIES AND METHOD OF LEAST SQUARES. II; 3 cr. 11 TT and third hour. Mr. Weaver.

119. DIFFERENTIAL GEOMETRY. II; 3 cr. Not offered 1930–31. Mr. Skinner.

125. THEORY OF EQUATIONS. II; 3 cr. 8 MWF. Mr. Ingraham.

136. MATHEMATICS PREPARATORY TO STATISTICS. I; 3 cr. Prerequisites: College algebra and a course in statistics or its equivalent, or consent of instructor. A course in certain portions of calculus, analytic geometry, trigonometry, and interpolation which are used in statistics. This course is to prepare students, who can not take calculus, for Mathematics 137. Can not be counted toward the minimum requirement for a major in mathematics. 2:30 MWF. Mr. Ingraham.

137. THE MATHEMATICS OF STATISTICS. II; 4 cr. Prerequisites: Math. 136 or calculus and consent of the instructor. A course in curve fitting, correlation, dispersion, frequency distributions, graphical calculation, and portions of the theory of probability, including a certain amount of laboratory work. 2:30 MWF and period to be arranged. Mr. Ingraham.

GRADUATE COURSES

The graduate courses in mathematics are varied from year to year according to the needs of the students, other subjects being introduced in addition to those here listed. When there is no indication in the description of a course that it is given every year or every other year, this lack of information should be interpreted to mean that the course is given at irregular times.

220. THEORY OF ANALYTIC FUNCTIONS. Yr; 3 cr. This course, like Course 221, is fundamental in analysis, but its content is restricted to functions of the complex variable. It has accordingly special interest in the application of mathematics to physics. Offered 1929–30 and in alternate years. Mr. Langer.

221. THEORY OF FUNCTIONS OF A REAL VARIABLE. Yr; 3 cr. The aim of this course is to develop the fundamental concepts and theorems of analysis. It includes an introduction to the theory of point-sets. Offered 1930–31 and in alternate years. Mr. Langer.

238. THE MATHEMATICS OF ECONOMIC STATISTICS. I; 3 cr. Deals with the mathematics of problems peculiar to economic statistics such as secular trends, seasonal variation, correlation of time series, and index numbers. Prerequisites: Math. 136 and 137, or consent of the instructor. Given when demand warrants. Mr. Ingraham.

243. MODERN THEORY OF DIFFERENTIAL EQUATIONS. Yr; 3 cr. Not offered 1930–31. Mr. Langer.

244. HIGHER GEOMETRY. Yr; 3 cr. Not offered 1930–31. Mr. Bennett.

245. ALGEBRAIC GEOMETRY. Yr; 3 cr. Algebraic curves and their singularities; the geometry of the curve and the associated Riemann surface. Mr. Bennett.

246. FINITE GROUPS. Yr; 3 cr. Offered 1930–31 and usually in alternate years. Mr. Skinner.

247. TENSOR ANALYSIS. Yr; 3 cr. Not offered 1930–31.

249. THEORETICAL HYDRODYNAMICS. I; 2 cr. Mr. Slichter.

250. THEORY OF ELASTICITY. Yr; 3 cr. Mr. March.

251. THEORY OF POTENTIAL. Yr; 2 cr. Mr. Weaver.

255. ADVANCED ALGEBRAIC THEORY OF EQUATIONS. I; 3 cr. A course covering the Galois theory of the algebraic solution of equations, the properties of symmetric functions, and certain other algebraic topics in the theory of equations. Mr. Ingraham.

256. ADVANCED ANALYTIC THEORY OF EQUATIONS. II; 3 cr. A course in the location of roots of a polynomial and certain related polynomials, including the derivative, with the extension of portions of the theory to entire functions. Mr. Ingraham.

257. INFINITE SERIES OF FUNCTIONS. Yr; 3 cr. Mr. Langer.

258. FOUNDATIONS OF ANALYSIS. Yr; 2 cr. To be given 1930–31 if demand warrants. Mr. Ingraham.

263. HIGHER ALGEBRA. Yr; 3 cr. Matrices, linear dependence and independence, quadratic forms, elementary divisors. Offered 1930–31. Mr. Ingraham.

265. HARMONIC ANALYSIS. Yr; 3 cr. Boundary value problems connected with the partial differential equations of ordinary occurrence in mathematical physics. Fourier's series, series of Bessel's functions, and spherical harmonics. Offered 1929–30 and in alternate years. Mr. March.

266. THEORY OF NUMBERS. Yr; 3 cr. Theory of congruences and of algebraic integers. Mr. Skinner.

267. CALCULUS OF VARIATIONS. I; 3 cr. An introductory course devoted to the classical theory and problems. Prerequisite: Differential and integral calculus. Offered 1930–31. Mr. Langer.

268. PARTIAL DIFFERENTIAL EQUATIONS. Yr; 3 cr. This course treats the theory of the partial differential equation of the first order and the various types of linear partial differential equations of second order which occur so commonly in the applications of mathematics. It presupposes no special knowledge other than an ordinary introductory course in differential equations, and some elementary knowledge of the theory of power series.

269. THEORY OF INTEGRAL EQUATIONS. II; 3 cr. An introductory course. The classical approach to the equations of Volterra and Fredholm types. Offered 1930–31. Mr. Langer.

270. MATHEMATICAL BASES OF THE THEORY OF RELATIVITY. II; 3 cr. Special and general relativity, the Lorentz transformation, quadratic differential forms, and the Absolute Calculus of Ricci and Levi-Civita. Mr. Weaver.

271. LINEAR ALGEBRAS. Yr; 3 cr. Mr. Ingraham.

275. SECOND COURSE IN THEORY OF FUNCTIONS. Yr; 3 cr.

TEACHERS' COURSES

91. THE CONTENT OF SECONDARY MATHEMATICS. II; 2 cr. Admission to course restricted to students enrolled in the School of Education. 8 TT. Mr. Hart.

377. THE TEACHING OF MATHEMATICS. I; 3 cr. Open to seniors who are preparing to teach mathematics either as major or minor subject. 8 TT. Mr. Hart.

METEOROLOGY

ERIC REXFORD MILLER, M.S., *Lecturer in Meteorology*

1. WEATHER AND CLIMATE. I; 3 cr. Prerequisite: Physics 1 or entrance physics. Lecture, quiz, 10 MWF. Mr. Miller.

2. CLIMATE AND MAN. II; 3 cr. Prerequisite: Meteorology 1 or Geography 4 or 5. Lecture, quiz, 10 MWF. Mr. Miller.

103. METEOROLOGY. I; 3 cr. Prerequisites: Mathematics 5, Physics 2. Lecture, 2:30 MWF. Mr. Miller.

106. CLIMATOLOGY. II; 3 cr. Prerequisite: A course in statistics. Lecture, 2:30 MWF. Mr. Miller.

MUSIC

CHARLES HENRY MILLS, Mus.D., F.R.C.O., *Professor of Music, Chairman*
CECIL BURLEIGH, *Professor of Music*
EDGAR BERNARD GORDON, *Professor of Music*
LELAND AVERY COON, B.A., *Associate Professor of Music*
EDSON WILFRED MORPHY, *Associate Professor of Music*
EDWARD EARLE SWINNEY, B.A., B.M., *Associate Professor of Music*
LOUISE LOCKWOOD CARPENTER, B.M., *Associate Professor of Music*
IRENE BELLE EASTMAN, B.M., *Assistant Professor of Music*
LEON LEONARD ILTIS, B.M., *Assistant Professor of Music*
FLORENCE BERGENDAHL, *Instructor in Music*
DORIS BURIFF CASTER, B.M., *Instructor in Music*
PAUL GEORGE JONES, B.M., *Instructor in Music*
KATHLEEN ANN MCKITRICK, B.M., *Instructor in Music*
EVELYN DILLION MAR, B.M., *Instructor in Music*
BEATRICE M. PERHAM, B.M., M.A., *Instructor in Music*

See School of Music, page 196, for outline of the four-year curriculum in music.

THEORY COURSES

1. First-Year Harmony. Yr; 3 cr. This course provides the student with a working knowledge of the chord material up to the dominant seventh. Much attention is given during the first semester to such fundamentals of music theory as key signatures, major and minor scales, intervals, triads, and elementary chord connection. From the first, the material of the course is used as a basis for keyboard harmony. All students are required to harmonize melodies and to transpose at the keyboard. The harmonizing of soprano melodies and the composition of original examples form a large part of the work of the second semester. 8, 9, or 1:30 MWF. Miss Eastman, Mr. Jones, Miss Mar, Miss McKitrick.

5. Form and Analysis. Yr; 2 cr. Prerequisites: Music 11 and junior standing. The study of the logic, structure, and architecture of music as exemplified in the works of the masters. 11 MF. Miss Mar.

11. Second-Year Harmony. Yr; 3 cr. Prerequisite: Music 1. 9 or 10 MWF. Miss Eastman, Mr. Mills.

21. Counterpoint. Yr; 2 cr. Prerequisite: Music 1. 9 TT, 10 TT, or 11 WF. Miss Mar.

31. History of Music. Yr; 2 cr. An historical survey of the growth of music to the present day. A student of this course should acquire a certain critical sense as to the musical values, a keener sense of discrimination and taste, and the power to place a given piece of music in its historical period. 1:30 TT. Miss Mar.

33. History of Public School Music. I; 2 cr. A comprehensive study of the development of public school music. 11 TT. Mr. Gordon.

36. Piano Pedagogy. I; 2 cr. An intensive analysis of technical studies and piano literature with reference to their use as teaching material in private and class work. Evaluation of various means of presentation. Discussion of pedagogical theories of the past and present. Open only to juniors and seniors in the School of Music. Prerequisites: Music 1, 5, 11, 31, 44, 75. 2:30 TT. Mr. Coon.

37. Applied Piano Pedagogy. II; 2 cr. Prerequisite: Music 36. Actual private and class teaching under supervision. Lesson plans and weekly discussion of problems. 2:30 TT. Mr. Coon.

45. Introductory Methods in Public School Music. Yr; 2 cr. Selection and presentation of material; consideration of the child voice; problems of appreciation; and other aspects throughout the grades. 10 MW. Mr. Gordon.

51. Grade-School Practice. Yr; 2 cr. Laboratory and conference. Prerequisite: Music 45. 8 F; 1:00 MWF. Miss Perham.

53. High-School Problems. I; 2 cr. Prerequisite: Music 51 or concurrent registration. Lecture and observation work in high-school music—vocal, appreciation, and instrumental. 8 MW. Mr. Gordon.

55. Grade and High-School Supervision. Yr; 2 cr. Laboratory and conference. Prerequisites: Music 51 and 53. 8 TT; 1:00 MWF. Mr. Gordon, Miss Perham.

65. APPRECIATION OF MUSIC. Yr; 1 cr. Prerequisite: Full sophomore standing. A general survey of the development of music with practical illustrations. Open to the student body. 11 TT. Mr. Mills.

66. CONDUCTING. II; 2 cr. Prerequisite: Junior standing. 11 TT. Mr. Gordon.

67. THE COMMUNITY FESTIVAL AND PAGEANT MOVEMENTS. I; 2 cr. The relation of these artistic activities to the general problem of recreation and to their use as a social force. Problems of song leadership, organization of informal musical groups, and the development of musical programs, festivals, and pageants. Offered 1930–31 and in alternate years. 2:30 MF. Mr. Gordon.

71. SOLFEGGIO. Yr; 1 cr. Class and individual drill; independent, accurate reading of all intervals of the diatonic scale; the more usual chromatics and easier rhythmic patterns; writing of simple melodies from dictation. 8 MW or 11 TT. Miss Perham.

72. MUSIC EDUCATION FOR DANCE MAJORS. Yr; 1–2 cr. This course aims to stress the elements of musical structure and interpretation, to consider the various series of music texts and apply their material to the needs of dance teachers, to build up a repertory of music, and to develop the correlation of music and dance through its various stages. 2:30 MW. Miss Perham.

75. ADVANCED SOLFEGGIO. Yr; 1 cr. Prerequisites: Music 1 and 71. Class and individual singing of different unison and part music involving all types of rhythms and intervals. Writing of two-part dictation. 9 or 10 TT. Miss Perham.

76. ORCHESTRA. Yr; 1 cr. Prerequisite: Ability to play some instrument. Membership decided by try-outs. Open to entire student body. Only after two semesters in the orchestra may a student register for credit. 4:30 MF; 7–9 W. Mr. Morphy.

78. COMMUNITY MUSIC. I; 2 cr. The ways in which music may be made a more potent social force; important developments here and abroad; programs of vocal and instrumental activities adapted to different types of communities; selection of material. Daily practice in conducting. For teachers of music, school principals, social workers, and citizens generally. Offered 1929–30 and in alternate years. 1:30 TT. Mr. Gordon.

79. SELECTION AND INTERPRETATION OF MUSIC MATERIAL. II; 2 cr. Offered 1930–31 and in alternate years. 2:30 TT. Mr. Gordon.

80. BANDS. Yr. Prerequisite: Knowledge of some band instrument. 4:30 TT or 4:30 MWF. Mr. Morphy.

89. INSTRUMENTAL CLASS INSTRUCTION. Yr; 2 cr. Prerequisite: Music 1. A practical class for acquiring an elementary playing and teaching knowledge of orchestral instruments. 1:30 or 2:30 TT. Mr. Gordon.

90. INSTRUMENTATION. Yr; 2 cr. Prerequisite: Music 89. Arranging for small orchestras and all forms of ensemble. 3:30 TT.

91. SOUND. II; 1 cr. A course in physics required of all music students. 2:30 F. Mr. Williamson.

100. THESIS. Yr; 2 cr. Staff.

102. ELEMENTARY COMPOSITION. Yr; 2–3 cr. Prerequisite: Music 11. The study of the higher discords and post-Wagnerian technique. A study and analysis of the work of Strauss and Debussy. The encouragement of original work. 10 MW. Mr. Mills.

112. ADVANCED COUNTERPOINT. Sem; *cr. Prerequisite: Music 21. 10 TT. Mr. Mills.

122. DOUBLE CONTERPOINT, CANON AND FUGUE. Yr; *cr. Analysis and composition. Examples taken from Bach and others of the classical period, as well as from modern masters. Prerequisite: Music 21. Mr. Mills.

131. ADVANCED HISTORY OF MUSIC. Yr; 2–3 cr. Prerequisite: Music 31. This course is divided into periods such as the following: The Clavecin period; Bach and Handel; the Classical school; the Romantic school; the Modern French school; the development of chamber music; Wagner. Each period is a semester course. Staff.

152. ORCHESTRATION. Yr; 2 cr. A study in the history of orchestration. Representative orchestral works will be studied by means of scores and phonograph records. Attendance at rehearsals of the University orchestra. Texts by Forsyth, Rimsky–Korsakow, Widor, and others are used as reference. Scoring for orchestra. Miss Mar.

162. COMPOSITION. Yr; 2 cr. Prerequisite: Music 102. Small forms, etc. Mr. Burleigh, Miss Mar.

165. SURVEY OF MUSIC. Yr; 2 cr. Prerequisite: Senior or graduate standing. A critical course in the study of the various forms and masterpieces of music. 1:30 TT. Mrs. Carpenter.

200. RESEARCH IN HISTORY OF MUSIC. Yr; *cr. Prerequisite: Graduate standing. Mr. Mills.

211. MODERN ORCHESTRATION. Yr; *cr. Prerequisite: Music 152. A further study of modern methods in orchestration. Original work in composition for orchestra will be required. Miss Mar.

265. FREE COMPOSITION. Yr; *cr. Prerequisite: Music 162. Staff.

APPLIED MUSIC

70. PIANO TECHNIC. Yr; 0 cr. The study of hand position, finger action, scales, and arpeggios. Required of all first-year students in piano and others whom the instructors designate. Classes of eight students meeting two hours per week. Lab. fee $4.00. 9, 10, 11, 1:30 TT. Mr. Jones.

81. PIANOFORTE. 0–2 cr. In addition to the private lessons, each first-year student taking piano for credit is required to enroll in the technic classes. Fee $25–$45. Mrs. Carpenter, Mr. Coon, Mr. Iltis, Miss McKitrick.

82. THE ART OF SINGING. 0–2 cr. The technique of tone production; correct principles of breathing; the vocal organs and their action; study of diction, English, French, German, and Italian; study of repertoire to cover all types of song literature; stage deportment; ensemble classes; recital and concert appearance. Fee $25–$45. Miss Bergendahl, Mrs. Caster, Mr. Swinney.

83. STRINGED AND ORCHESTRAL INSTRUMENTS. 0–2 cr. Individual instruction. Fee $25–$45. Mr. Burleigh, Mr. Morphy.

84. ORGAN. 0–2 cr. Individual instruction. Prerequisite: A satisfactory pianoforte technique, and some skill in polyphonic playing. Fee $25–$45. Miss Eastman, Mr. Jones, Mr. Mills.

85. PIANO ENSEMBLE. 1 cr. Prerequisite: Piano major or equivalent in piano playing ability. Assignments in practical accompanying of the voice and violin or other instruments; violin and piano sonata playing; four- and eight-hand arrangements of symphonies and orchestral works; two-piano compositions. Mrs. Carpenter, Mr. Coon, Mr. Iltis, Miss McKitrick.

86. STRING AND WOODWIND ENSEMBLE. 1 cr. Prerequisite: Knowledge of instrument played and reasonable ability. Study of string ensemble literature, violin duets, trios, and quartets with and without piano accompaniment; trios for two violins and viola, unaccompanied; string quartet literature; string and woodwind quintets and sextets. Mr. Morphy.

87. CLASS PIANO FOR PUBLIC SCHOOL MUSIC MAJORS. 2 cr. One hour of technic in a class of eight, and two hours of piano in a class of four. Required of all public school music majors. Basic principles of technic, scales, and arpeggios in all majors and minor keys; the complete cadence in all keys; sight reading; simple chord analysis; correct playing of folk songs, hymns, and the simpler choral literature, with a view to accompanying groups; transposition a second or third up or down; keyboard harmonization of simple melodies. Fee $45. 9, 10, 11, 1:30 MWF. Piano staff.

88. CLASS VOICE FOR PUBLIC SCHOOL MUSIC MAJORS. 2 cr. A course primarily for those majoring in public school music and a prerequisite to Course 82 for all such majors. The work is given in classes of four meeting three hours per week and includes the fundamental principles of voice production, correct concept of tone, interpretation, and ensemble singing. Fee $45. 9, 11, 1:30 MWF. Voice staff.

181. ARTIST COURSE IN APPLIED MUSIC. Yr; *cr. Prerequisite: Graduate standing in Applied Music. Fee $25–$45. Staff.

NORSE

See Scandinavian Languages, page 217.

PHARMACY

EDWARD KREMERS, Ph.D., Ph.M., Sc.D., *Professor of Pharmaceutical Chemistry, Chairman*
WILLIAM OSCAR RICHTMANN, Ph.D., *Associate Professor of Pharmacognosy*
NELLIE ANTOINETTE WAKEMAN, Ph.D., *Assistant Professor of Pharmacy*
RALPH WILLIAM CLARK, M.S., *Instructor in Pharmacy*
ARTHUR HOYT UHL, M.S., *Instructor in Pharmacy*

PHARMACY

1. PHARMACEUTICAL TECHNIQUE. Yr; 3 cr. A study of the principles of physics applied to pharmacy. Open to freshmen. Lab. fee $9.00 per semester. 1:30 MW; 6 hours lab. Mr. Uhl.

20. ELEMENTARY PRESCRIPTION PRACTICE. Yr; 2 cr. The compounding and the study of simple prescriptions. Lab. fee $8.00 per semester. 11 TT; 3 hours lab. Mr. Clark.

30. PHARMACEUTICAL TECHNOLOGY. I; 5 cr. An elementary course in the preparation of pharmaceutical products. Prerequisites: Chemistry 20 and Ph. Chem. 26 or concurrent registration. Lab. fee $15.00. 1:30 TT; 8 hours lab. Mr. Clark.

50. HISTORY OF PHARMACY. Yr; 1 cr. The development of pharmacy in the principal countries of Europe, followed by a more detailed study of the development of pharmacy in the United States. Offered 1930–31 and in alternate years. 3:30 F. Mr. Kremers, Mr. Uhl.

51. DRUG-STORE PRACTICE. Yr; 1 cr. Lectures and topics on aspects of drug-store practice ranging from the planning and equipment of a store to salesmanship and the laws governing the practice of pharmacy. Offered 1929–30 and in alternate years. 3:30 F. Mr. Kremers, Mr. Uhl, and special lecturers.

100. SENIOR THESIS. Yr; 2 cr. Staff.

121. ADVANCED PRESCRIPTION PRACTICE. II; 2 cr. A study of classes of modes of administration with special reference to incompatibilities. Prerequisites: Pharmacy 20, Ph. Chem. 26 and 27. Lab. fee $8.00. 1:30 Tu; 2 hours lab. Mr. Clark.

124. DISPENSARY PRACTICE. I, II; 2 cr. A study of dispensary problems. Hospital practice. Prerequisite: Consent of instructor. Lab. fee $3.00. 2:30–4:30 M. Mr. Clark.

131. ADVANCED PHARMACEUTICAL TECHNOLOGY. Yr; *cr. Problems in the preparation of pharmaceutical preparations. Lab. fee $1.50 per credit. Mr. Clark.

160. PHARMACEUTICAL LITERATURE. Yr; 1 cr. Mr. Kremers.

232. GRADUATE PHARMACEUTICAL TECHNOLOGY. Yr; *cr. Mr. Kremers.

250. CONFERENCE OF RESEARCH WORKERS. Yr; 1 cr. Mr. Kremers.

PHARMACEUTICAL AND PLANT CHEMISTRY

26. INORGANIC PHARMACEUTICAL CHEMISTRY. I; 5 cr. A review of the principles of inorganic chemistry with special attention to methods for preparing and testing medicinal chemicals. Prerequisites: General chemistry and quantitative analysis. Lab. fee $15.00. 9 MWF; 6 hours lab. Miss Wakeman.

27. ORGANIC PHARMACEUTICAL CHEMISTRY. II; 5 cr. A review of the principles of organic chemistry with special reference to organic medicinal chemicals. Prerequisite: Organic chemistry. Lab. fee $15.00. 9 MWF; 6 hours lab. Miss Wakeman.

40. PLANT CHEMISTRY. Yr; 3 cr. An elementary study of plant products and plant chemical processes. Prerequisite: Consent of instructor. Lab. fee I, $15.00; II, $10.00. 11 TT; 6 hours lab. Miss Wakeman.

45. ALKALOIDAL ASSAY. II; 1 cr. A study of chemical methods for determining the alkaloidal content of crude drugs and pharmaceutical preparations. Lab. fee $5.00. Last six weeks of Ph. Chem. 40. Miss Wakeman.

100. SENIOR THESIS. Yr; 2 cr. Staff.

127. SYNTHETIC ORGANIC REMEDIES. Yr; *cr. The preparation and properties of synthetic organic remedies. Prerequisite: Consent of instructor. Lab. fee $2.50 per credit. Miss Wakeman.

200. GRADUATE RESEARCH. Yr; *cr. Volatile oils and other subjects of organic chemistry, with special reference to plant chemistry. Mr. Kremers.

241. ADVANCED PLANT CHEMISTRY. Yr; 2 cr. 10 TT. Mr. Kremers.

PHARMACOGNOSY

10. CRUDE VEGETABLE AND ANIMAL DRUGS. Yr; 1 cr. An introductory course in pharmacognosy based upon a morphological arrangement. 10–12 Tu or Th. Mr. Richtmann.

21. DOSES OF VEGETABLE AND ANIMAL DRUGS. I, II; 1 cr. A general consideration of the various items associated with doses of medicines. Prerequisites: Pharmacognosy 10, Botany 1, Chemistry 1. Mr. Richtmann.

22. HABITATS OF CRUDE VEGETABLE AND ANIMAL DRUGS. I, II; 1 cr. A study of various factors influencing the geographic sources of natural remedial agents.

100. SENIOR THESIS. Yr; 2 cr. Mr. Richtmann.

110. SOURCES OF INFORMATION OF CRUDE VEGETABLE AND ANIMAL DRUGS. I, II; *cr. The use of the library in locating the literature relating to drugs.

120. NATURAL HISTORY OF VEGETABLE AND ANIMAL DRUGS. Yr; 3 cr. A monographic study of a considerable number of drugs, based on their natural relationships. Prerequisites: Pharmacognosy 10, Botany 1, Chemistry 1. 8–10 MWF. Mr. Richtmann.

130. CULTIVATION OF MEDICINAL PLANTS. Yr; *cr. Mr. Richtmann.

200. RESEARCH IN MEDICINAL PLANTS. Yr; *cr. Mr. Richtmann.

PHILOSOPHY

EVANDER BRADLEY MCGILVARY, Ph.D., *Professor of Philosophy, Chairman*
ALEXANDER MEIKLEJOHN, Ph.D., LL.D., *Brittingham Professor of Philosophy*
MAX CARL OTTO, Ph.D., *Professor of Philosophy*
FRANK CHAPMAN SHARP, Ph.D., *Professor of Philosophy*
EDWARD BAUMGARTEN, Ph.D., *Assistant Professor of Philosophy* (on leave)
PHILIP GORDER FOX, M.A., *Assistant Professor of Philosophy*
ADOLPH THEODORE HAENTZSCHEL, Ph.D., *Lecturer in Philosophy*
WILFRED PAYNE, M.S., *Instructor in Philosophy*
ALBERT GUSTAV RAMSPERGER, Ph.D., *Instructor in Philosophy*
ELISEO VIVAS, M.S., *Instructor in Philosophy*

The student is at liberty to begin his work in philosophy with any of the courses numbered under one hundred, 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 11, 21, 31, or 41 in the first semester, and either 11, 21, or 132 in the second semester. None of the courses in this department is open to freshmen.

MAJOR. Only students with upper-group status may select philosophy as a major. The minimum requirement is 25 credits, including a thesis, courses 31 and 132, and 9 additional credits in the 100 group.

11. ELEMENTARY LOGIC. I, II; 3 cr. Nine sections. Prerequisite: Sophomore standing. Mr. Otto, Mr. Haentzschel, Mr. Payne, Mr. Ramsperger, Mr. Vivas.

21. INTRODUCTION TO PHILOSOPHY. I, II; 3 cr. Prerequisites: Sophomore standing and upper-group status. Lecture 10 WF; quiz. Mr. McGilvary, Mr. Haentzschel.

25. THE RELATION OF MAN TO NATURE. II; 3 cr. Prerequisite: Junior standing. Lecture 10 TT; quiz. Mr. Otto and staff.

31. HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY. I; 3 cr. Prerequisite: Sophomore standing. 11 MWF. Mr. Vivas.

41. INTRODUCTORY ETHICS. I; 3 cr. A study of our standards of right and wrong: their nature, source, and value. Prerequisite: Sophomore standing. 9 MWF. Mr. Sharp.

43. BUSINESS ETHICS. I, II; 2 cr. The rules of fair competition. Standards of fair service. Fair price, fair wage, and the justice of the present system of distributing wealth. Prerequisite: Sophomore standing. I—9, 10, 11, 1:30 TT; II—9, 10, 11, 2:30 TT. Mr. Sharp, Mr. Fox.

120. PHILOSOPHY OF SCIENCE. I; 3 cr. A study of the extent to which science involves a theory of reality, a theory of knowledge, and a theory of values. Prerequisite: Philosophy 21, 25, 31, or 132. 10 MWF. Mr. Ramsperger.

122. THE PHILOSOPHY OF NATURALISM. I; 3 cr. Ancient materialism, modern naturalism, contemporary naturalism. New theories of atomic structure, and varieties of theories of evolution—emergent, creative, physical. Prerequisite: Philosophy 21, 25, 31, or 132. 9 MWF. Mr. Payne.

124. PHILOSOPHICAL BEARINGS OF CURRENT PSYCHOLOGICAL THEORIES. II; 3 cr. With special reference to behaviorism and Gestalt psychology. Prerequisite: Philosophy 21, 25, 31, or 132. 10 MWF. Mr. Haentzschel.

132. HISTORY OF MODERN PHILOSOPHY. II; 3 cr. Prerequisite: Philosophy 31. 11 MWF. Mr. Vivas.

134. CONTEMPORARY PHILOSOPHY. Yr; 3 cr. Prerequisite: Philosophy 21, 31, or 132. 1:30 MWF. Mr. McGilvary.

135. DESCARTES, SPINOZA, AND LEIBNIZ. I; 3 cr. Prerequisite: Philosophy 21, 25, 31, or 132.

136. LOCKE, BERKELEY, AND HUME. I; 3 cr. Prerequisite: Philosophy 21, 25, 31, or 132. 3:30 TTF. Mr. Ramsperger.

137. THE PHILOSOPHY OF KANT. II; 3 cr. Prerequisite: Philosophy 21, 25, 31, or 132. 1:30 TTF. Offered 1929–30 and in alternate years. Mr. Ramsperger.

139. AMERICAN PHILOSOPHERS. I; 3 cr. With special reference to William James and John Dewey. Prerequisite: 3 cr. in philosophy. 10 TT; quiz. Mr. Otto.

145. PLATO'S REPUBLIC. II; 2 cr. Prerequisite: Philosophy 21, 25, 31, or 41. 1:30 TT. Mr. Sharp.

146. ADVANCED BUSINESS ETHICS. II; 2 cr. Prerequisite: Philosophy 43. 11 TT. Mr. Sharp.

213. LOGICAL SEMINARY. Yr; 2 cr. Mr. Otto.

240. METAPHYSICAL SEMINARY. Yr; 2 cr. Mr. McGilvary.

247. ETHICAL SEMINARY. Yr; 2 cr. Mr. Sharp.

PHYSICAL EDUCATION

The four-year curricula in physical education leading to the degree of Bachelor of Science, Physical Education, are described under the heading School of Education, pages 97–102. Starred courses (⋆) do not count toward the requirements for graduation from the College of Letters and Science except for students in one of the four-year curricula in physical education.

MEN'S DEPARTMENT

GEORGE E. LITTLE, B.S., *Director and Professor of Physical Education*
GUY SUMNER LOWMAN, B.Di., B.P.E., *Professor of Physical Education, Chairman Course in Physical Education and Athletic Coaching for Men*
JAMES CLAUDE ELSOM, M.D., *Professor of Physical Education*
THOMAS EDWARD JONES, B.A., B.P.E., *Professor of Physical Education*
WALTER E. MEANWELL, M.D., D.P.H., *Professor of Physical Education*
GLENN F. THISTLETHWAITE, B.S., *Professor of Physical Education*
GEORGE F. DOWNER, B.L., *Associate Professor of Physical Education*
GEORGE WYNDEN LEVIS, B.A., *Associate Professor of Physical Education*
ARPAD LOUIS MASLEY, *Associate Professor of Physical Education*
JOSEPH CHRISTIAN STEINAUER, *Associate Professor of Physical Education*
GUY MERRILL SUNDT, B.S., *Associate Professor of Physical Education*
LEONARD BLAINE ALLISON, B.S., *Assistant Professor of Physical Education*
CAMPBELL DICKSON, Ph.B., J.D., *Assistant Professor of Physical Education*
GEORGE WILLIAM MURPHY, *Assistant Professor of Physical Education*
ROBERT NOHR, JR., G.G., *Assistant Professor of Physical Education*
IRWIN CHARLES UTERITZ, B.A., *Assistant Professor of Physical Education*
FRANCIS XAVIER CUISINIER, B.A., *Instructor in Physical Education*
FREDERIC MAURICE EVANS, B.A., *Instructor in Physical Education*
HOWARD J. HANCOCK, B.S., *Instructor in Physical Education*
GEORGE DAVID HITCHCOCK, *Instructor in Physical Education*
GEORGE BALSER NELSON, Ph.B., *Instructor in Physical Education*
FRANK NICKERSON, *Instructor in Physical Education*
RUBE WAGNER, B.S., *Instructor in Physical Education*

3. PHYSIOLOGY (Physiology 3). II; 4 cr. Lab. fee $3.00. Mr. Meek and staff.

⋆6. THEORY AND PRACTICE. I; 3 cr. History and principles of physical education and introductory physical training. Lab. fee $3.00. Staff.

⋆7. THEORY AND PRACTICE. II; 3 cr. Tactics, calisthenics, and elementary apparatus; class instruction in minor sports and swimming. Lab. fee $3.00. Staff.

⋆8. THEORY AND PRACTICE. I; 3 cr. Graded games, calisthenics, and nomenclature; football practice; basketball practice; minor sports. Lab. fee $3.00. Staff.

⋆9. THEORY AND PRACTICE. II; 3 cr. Basketball theory; football theory; calisthenics, hand apparatus, and apparatus with methods of progression; track and field theory and practice; baseball practice. Lab. fee $3.00. Staff.

*10. THEORY AND PRACTICE. I; 3 cr. Critic discussions; physical education for elementary and secondary schools, theory and practice; football practice; basketball practice; games of higher organization. Lab. fee $3.00. Staff.

*11. THEORY AND PRACTICE. II; 3 cr. Physical education programs; baseball theory and practice; track and field practice; scoutcraft and camping. Lab. fee $3.00. Staff.

*12. THEORY AND PRACTICE. I; 3 cr. Athletic conditioning and training; advanced basketball and football theory; practice teaching. Lab. fee $3.00. Staff.

*13. THEORY AND PRACTICE. II; 3 cr. Advanced physical education programs; natural gymnastics, stunts, tumbling, and tests; advanced field and track theory; advanced baseball theory; life-saving and advanced swimming; practice teaching. Lab. fee $3.00. Staff.

*17. ATHLETIC TRAINING AND FIRST AID. I; 2 cr. Open only to physical education minors. Mr. Fallon.

39. HUMAN ANATOMY (Anatomy 39). I; 4 cr. Prerequisite: Zoology 1. Lab. fee $5.00. Mr. Bardeen, Mr. Hicks.

*58. HUMAN MECHANICS. I; 2 cr. For men majoring or minoring in physical education. Prerequisite: Human anatomy. Mr. Nohr.

107. EFFECTS OF PHYSICAL ACTIVITIES ON THE BODY. II; 3 cr. Prerequisites: Physical Ed. 3 and 58. Mr. Nohr.

118. PHYSICAL EXAMINATION (Medicine 118). I; 3 cr. Prerequisites: Anatomy 39, Physiology 3. Mr. Elsom.

130. ADVANCED ANATOMY. I, II; *cr. Prerequisite: Anatomy 39 or concurrent registration. Mr. Bardeen, Mr. Sullivan, Mr. Hicks.

162. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. II; 2 cr. Prerequisites: Phys. Ed. 12, 13, 58, and 388 or 168. Mr. Nohr.

163. THERAPEUTIC GYMNASTICS. Yr; 2 cr. Prerequisites: Anatomy 39, Physical Education 58. Mr. Elsom.

168*. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. II; 2 cr. Prerequisites: Physical Education 10, 11, 12, and 59. Mr. Lowman, Mr. Little.

169. AIMS AND IDEALS IN COMPETITION AND ATHLETIC COACHING. I; 2 cr. Prerequisite: Physical Education 168 or equivalent. Mr. Little.

263. ADVANCED THERAPEUTIC GYMNASTICS. I; 2 cr. Prerequisite: Physical Education 163 or 166. Especially qualified students may arrange for research in corrective gymnastics and physical therapy. Mr. Elsom.

291. PROBLEMS IN ORGANIZATION, TEACHING, AND ADAPTATION. II; 2 cr. Prerequisite: Physical Education 168 or 388. Mr. Lowman.

TEACHERS' COURSE

388*. PRINCIPLES OF TEACHING AND ADAPTATION. II; 3 or 4 cr. Prerequisites: Physical Ed. 58 and 59. Mr. Lowman.

WOMEN'S DEPARTMENT

BLANCHE MATHILDE TRILLING, B.A., *Professor of Physical Education, Chairman Course in Physical Education for Women*
MARGARET NEWELL H'DOUBLER, M.A., *Associate Professor of Physical Education*
GLADYS BARTON BASSETT, M.A., *Assistant Professor of Physical Education*
KATHERINE CRONIN, M.A., *Assistant Professor of Physical Education*
HELEN DOBSON DENNISTON, M.D., *Assistant Professor of Physical Education*
ALFREDA MOSSCROP, M.A., *Assistant Professor of Physical Education*
HELEN I. DRIVER, B.A., *Instructor in Physical Education*
MARY HARRINGTON, B.A., *Instructor in Physical Education*
CATHARINE MAPLE, M.S., *Instructor in Physical Education*
MARGARET MEYER, M.A., *Instructor in Physical Education*
ELNA MYGDAL, B.S., *Instructor in Physical Education*
CYNTHIA M. WESSON, M.A., *Instructor in Physical Education*
MARCIA HOWE WINN, M.A., *Instructor in Physical Education*

*20. PRACTICE IN DANCING, GYMNASTICS, AND SPORTS. Yr; 0 cr. For students majoring or minoring in physical education. Includes instruction in nomenclature, elementary organization of materials, methods of leading sections and squads, and assisting in college classes. Staff.

*31. PRINCIPLES OF COACHING. II; 2 cr. 9 MWF. Staff.

*32. PRINCIPLES OF COACHING. I; 2 cr. 8 MW. Staff.

*33. PRINCIPLES OF COACHING. II; 2 cr. 11 MW. Staff.

*41. THE SELECTION AND PRACTICE OF ACTIVITIES FOR ELEMENTARY AND SECONDARY SCHOOLS. II; 2 cr. 2:30 MWF. Miss Mosscrop, Miss Cronin.

*42. PLAYS AND GAMES: THEORY AND PRACTICE. I; 2 cr. 10 MWF. Miss Bassett.

*43. ELEMENTARY FOLK DANCING. II; 1 cr. 8 MW. Miss Bassett.

*49. ADVANCED FOLK DANCING. I; 1 cr. Prerequisite: Physical Education 43 or consent of instructor. 1:30 MW. Miss Mosscrop.

*56. KINESIOLOGY. I; 3 cr. Prerequisites: Physical Education 20, Anatomy 120. 1:30 MWF. Miss Meyer.

*60. RHYTHMIC FORM AND ANALYSIS. I; 1 cr. Prerequisite: Major in dancing. 1:30 TT. Miss H'Doubler, Miss Mygdal.

72. MUSIC EDUCATION FOR DANCE MAJORS. Yr; 1–2 cr. This course aims to stress the elements of musical structure and interpretation, to consider the various series of music texts and apply their material to the needs of dance teachers, to build up a repertory of music, and to develop the correlation of music and dance through its various stages. 2:30 MW. Miss Perham.

*81. CAMP LEADERSHIP. II; 2 cr. Prerequisite: Sophomore standing. Fee $2.00. 3:30 TT. Miss Winn.

115. PHYSIOLOGY (Physiology 115). Yr; 5 cr. Prerequisites: Anatomy 120 and concurrent registration in Physiological Chemistry 114. Lab. fee I, $13.00; II, $11.00. 8–12 TT. Mr. Dawson and staff.

118. PHYSICAL EXAMINATION (Medicine 118). II; 3 cr. Prerequisites: Anatomy 120, Physiology 115. 8–10 TT. Miss Morris.

120. HUMAN ANATOMY (Anatomy 120). II; 6 cr. Prerequisite: Zoology 3. Lab. fee $10.00. 8–11 TT; 1:30–4:30 MW; 10–12 S. Mr. Bardeen.

146★. THEORY OF THE DANCE. I; 3 cr. Prerequisite: Major in dancing or consent of instructor. 10 TT. Miss H'Doubler.

160. ADVANCED RHYTHMIC FORM AND ANALYSIS. II; 2 cr. Prerequisite: Physical Education 60. 1:30 TT. Miss Mygdal.

162. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. I; 2 cr. Prerequisite: Senior standing. 1:30 TT. Miss Cronin.

163. THERAPEUTIC GYMNASTICS. Yr; 2 cr. Prerequisites: Anatomy 120, Physical Education 56. I, 1:30 TT, 2:30 F; II, 8 MW, 11 F. Mrs. Denniston.

165. DANCE COMPOSITION. II; 2 cr. Prerequisite: Major in dancing. 10 TT. Miss H'Doubler.

168★. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. II; 2 cr. Prerequisite: Senior standing in physical education course. 10 MWF. Miss Trilling.

200. RESEARCH IN PHYSIOLOGY (Physiology 200). Yr; 2 cr. Prerequisites: Physiological Chemistry 114, Physiology 115. Mr. Dawson.

262. RESEARCH IN TESTS AND MEASUREMENTS. Yr; 2 cr. Prerequisite: Phys. Ed. 162 or concurrent registration. Miss Cronin.

263. ADVANCED THERAPEUTIC GYMNASTICS. I; 2 or 3 cr. Prerequisite: Physical Education 163. 2:30 TT. Mrs. Denniston.

265. SEMINARY IN DANCE DRAMA. II; 2 cr. Prerequisites: Physical Education 60, 165. Miss H'Doubler.

292. SEMINARY IN ADMINISTRATION. Yr; 2 cr. Prerequisites: Physical Education 388, 168. Miss Trilling.

TEACHERS' COURSE

388★. PRINCIPLES OF TEACHING AND ADAPTATION. I; 4 cr. Includes practice teaching. Prerequisites: Physical Education 20, 41, 42, 56. 11 MWF. Miss Cronin, Miss Bassett, Miss Mosscrop.

COURSES OPEN TO BOTH MEN AND WOMEN

5. DISEASE PREVENTION (Pathology 5). II; 2 cr. 1:30 TT. Mr. Clark.

16. FIRST AID TO THE INJURED. II; 1 cr. Discussion of accidents that may occur in the home, the gymnasium, the athletic field, etc. Methods of emergency treatment with actual practice. Latest methods of transportation of injured. Red Cross diploma in first aid is granted. 8 MW. Mr. Masley.

59. NATURE, FUNCTION, AND ORGANIZATION OF PLAY. I; 3 cr. Prerequisite: Psychology 1 or 3 credits in education. 10 MWF. Mr. Lowman.

*71. SCOUTING AND OTHER ADOLESCENT ORGANIZATIONS. II; 2 cr. Prerequisite: Physical Education 59 or three credits in education or sociology. Mr. Elsom.

80. COMMUNITY RECREATION. II; 2 cr. Prerequisite: Phys. Ed. 59 or three credits in education or sociology. 1:30 MW. Mr. Elsom.

114. PHYSIOLOGICAL CHEMISTRY (Physiol. Chem. 114). I; 3 cr. Prerequisite: General chemistry. Lab. fee $7.00; deposit $5.00. 10–12 MWF. Mr. Bradley, Mr. Witzemann, and staff.

121. PHYSICAL DEVELOPMENT (Education 121). II; 2 cr. Prerequisite: Junior standing. 11 TT. Mr. Ragsdale.

159. SOCIAL ASPECTS OF PLAY AND RECREATION. I; 2 cr. Prerequisite: Physical Education 59. 11 TT. Mr. Lowman.

164. SCHOOL HEALTH PROBLEMS. II; 2 cr. Prerequisites: Anatomy 39 or 120, Physiology 3 or 115, Phys. Ed. 5 and Phys. Ed. 163. Mr. Elsom.

166. PHYSICAL THERAPY. II; 2–3 cr. Prerequisites: Anatomy and physiology. Mr. Elsom.

182. EXPERIMENTAL EDUCATION: MOTOR LEARNING (Education 182). I; 5 cr. Prerequisite: Education 144 or consent of instructor. Lab. fee $2.50. 11 MWF and lab. Mr. Ragsdale.

245. RESEARCH IN MOTOR LEARNING (Education 245). II; 5 cr. Prerequisite: Education 145. Mr. Ragsdale.

PHYSICS

CHARLES ELWOOD MENDENHALL, Ph.D., *Professor of Physics, Chairman*
LEONARD ROSE INGERSOLL, Ph.D., *Professor of Physics*
JOHN RANSOM ROEBUCK, Ph.D., *Professor of Physics*
JOHN HASBROUCK VAN VLECK, Ph.D., *Professor of Physics*
ROBERT CROZIER WILLIAMSON, Ph.D., *Associate Professor of Physics*
WILLIAM FREDERICK STEVE, M.A., *Assistant Professor of Physics*
HUGO BERNARD WAHLIN, Ph.D., *Assistant Professor of Physics*
ROBERT JAMES HAVIGHURST, Ph.D., *Assistant Professor of Physics*
JULIAN ELLIS MACK, Ph.D., *Assistant Professor of Physics*
GLENN WARD GIDDINGS, M.A., *Instructor in Physics*
JOHN GIBSON WINANS, Ph.D., *Instructor in Physics*
FLOYD OSTENSEN, Ph.D., *Instructor in Physics*

GREGOR WENTZEL, Ph.D., University of Zürich, *Acting Professor of Physics* (II, 1929–30)

In order to adapt the instruction in physics to students of different purpose and degree of preparation, the introductory course is given in two divisions designated as courses 1 and 31. Course 1 is arranged primarily for those who are taking this subject for its general interest. Course 31 is intended for those who need or desire a more fundamental training, and presupposes either high-school physics or freshman mathematics, or concurrent registration in the latter.

MAJOR. A minimum of 24 credits in approved courses, including the thesis.

1a. GENERAL PHYSICS. I; 5 cr. Mechanics, heat, magnetism, static electricity. (See also Physics 31.) Lab. fee $7.00. Lecture 11 or 2:30 MW; 4 hrs. lab; 2 hrs. quiz. (Repeated second semester; lecture 2:30 TT.) Mr. Steve, Mr. Ingersoll and staff.

1b. GENERAL PHYSICS. II; 5 cr. Current electricity, sound, and light. Prerequisite: Physics 1a. Lab. fee $7.00. Lecture 11 or 2:30 MW; 4 hrs. lab; 2 hrs. quiz. (Repeated first semester; lecture 2:30 TT.) Mr. Steve, Mr. Ingersoll, and staff.

2. HEAT. I; 3 cr. Prerequisite: Physics 1 (or 31, 52, or 54). Lab. fee $6.50. Lecture–conference 9 Th; lab. 1:30–5:30 Th. Mr. Roebuck.

3. LIGHT. II; 3 cr. Prerequisite: Physics 1 (or 31, 52, or 54). Lab. fee $6.50. Lecture–conference 9 Th; lab. 1:30–5:30 Th. Mr. Roebuck.

4. ELECTRICITY AND MAGNETISM. Yr; 3 cr. Prerequisite: Physics 1 (or 31, 52, or 54). Lab. fee $6.00 per semester. Lecture–conference 9 Tu; lab. 1:30–5:30 Tu. Mr. Wahlin.

7. PHOTOGRAPHY. II; 2 cr. Prerequisite: Consent of instructor. Lab. fee $4.50. Lecture 11 Th; lab. 1:30–4:30 Th. Mr. Williamson.

10. LABORATORY ARTS. I; 1 cr. Glass blowing and shop work. Required for Physics 100. Lab. fee $3.00. Mr. Roebuck.

15. IONIZATION AND ELECTRICAL CONDUCTION. I; 2–4 cr. Prerequisites: Physics 1 (or 31, 52, or 54) and consent of instructor. Lab. fee $6.00. Lecture–conference 8 TT; lab. 1:30–5:30 M. Mr. Williamson.

31. GENERAL PHYSICS. Yr; 5 cr. Prerequisite: High-school physics or freshman mathematics, or concurrent registration in the latter. Recommended for students who expect to major in physics or chemistry. Lab. fee $7.00 per semester. Lecture 11 F; 4 hrs. lab; 3 hrs. quiz. Mr. Roebuck, Mr. Williamson, Mr. Ingersoll, and staff.

51. GENERAL PHYSICS. I; 5 cr. Mechanics, wave motion, and heat. Required of sophomores in civil, chemical, mechanical, and mining engineering. Lab. fee $7.00. Lecture 3:30 M or W; 4 hrs. lab; 3 hrs. quiz. Mr. Ingersoll, Mr. Wahlin, and staff.

52. GENERAL PHYSICS. II; 5 cr. Magnetism, electricity, sound, and light. Continuation of Physics 51. Lab. fee $7.00. Lecture 3:30 M or W; 4 hrs. lab; 3 hrs. quiz. Mr. Ingersoll, Mr. Wahlin, and staff.

53. MECHANICS AND ELECTRICITY. I; 3 cr. Required of sophomores in electrical engineering. Lab. fee $3.60. Lecture 9 F; 2 hrs. lab; 2 hrs. quiz. Mr. Wahlin and staff.

54. HEAT, WAVE MOTION, AND SOUND. II; 3 cr. Continuation of Physics 53. Lab. fee $3.60. Lecture 3:30 Th; 2 hrs. lab; 2 hrs. quiz. Mr. Wahlin and staff.

55. ADVANCED ELECTRICITY AND MAGNETISM. I; 3 cr. Required of juniors in electrical engineering. Lab. fee $6.00. Lecture–conference 1:30 F; 4 hrs. lab. Mr. Wahlin and staff.

56. ADVANCED ELECTRICITY AND LIGHT. II; 3 cr. Required of seniors in electrical engineering. Lab. fee $6.50. Lecture–conference 1:30 F; 4 hrs. lab. Mr. Roebuck, Mr. Wahlin, and staff.

61. GENERAL PHYSICS. II; 5 cr. For agricultural students. Lab. fee $7.00. Lecture 10 TT; 4 hrs. lab; 2 hrs. quiz. Mr. Steve.

65. GENERAL PHYSICS. Yr; 3 cr. Required of sophomores in physical education and home economics. Lab. fee $3.60 or $5.00 per semester. Lecture 11 Tu; 2 or 3 hrs. lab; 2 hrs. quiz. Mr. Williamson, Mr. Ingersoll, and staff.

91. SOUND. II; 1 cr. Required of music students. Lecture–conference 2:30 F. Mr. Williamson.

100. THESIS. Yr; 2 cr. Lab. fee $3.00 per credit. Staff.

115. INTRODUCTION TO THERMODYNAMICS. I; 3 cr. 8 TTS. Mr. Roebuck.

116. ELECTRIC CIRCUITS AND ELECTROMAGNETIC WAVES. I; 3 cr. 10 MWF. Mr. Wahlin.

117. PHYSICAL OPTICS. II; 3 cr. 10 MWF. Mr. Ingersoll.

118. KINETIC THEORY OF GASES. I; 3 cr. 9 MWF. Mr. Ingersoll.

120. COLLOQUIUM. Yr; 1 cr. 4 F. Mr. Mendenhall.

124. MATHEMATICAL THEORY OF HEAT CONDUCTION. II; 3 cr. 9 MWF. Mr. Ingersoll.

200. GRADUATE RESEARCH. Yr; *cr. Lab. fee $3.00 per credit. Staff.

211. ADVANCED DYNAMICS. Yr; 3 cr. Offered 1931–32 and in alternate years. 11 MWF. Mr. Weaver.

212. QUANTUM MECHANICS AND ATOMIC STRUCTURE. Yr; 3 cr. 10 MWF. Mr. Van Vleck.

214. APPLICATION OF THERMODYNAMICS TO THE PROPERTIES OF MATTER. II; 3 cr. Offered 1930–31 and in alternate years. 8 TTS. Mr. Roebuck.

215. THEORY OF ELECTRICITY. Yr; 3 cr. Offered 1930–31 and in alternate years. 11 MWF. Mr. Weaver.

216. ELECTROMAGNETIC THEORY OF LIGHT. Yr; 3 cr. Offered 1931–32 and in alternate years. 8 MWF. Mr. Mendenhall.

219. THEORY OF RADIATION. I; 3 cr. Offered 1930–31 and in alternate years. 8 MWF. Mr. Mendenhall.

225. SEMINARY, ELECTRON THEORY OF SOLIDS. II; 3 cr. 8 MWF. Mr. Mendenhall.

TEACHERS' COURSE

393. THE TEACHING OF PHYSICS. II; 3 cr. Lecture 4:30 TT. Mr. Steve.

POLITICAL SCIENCE

FREDERIC AUSTIN OGG, Ph.D., LL.D., *Professor of Political Science, Chairman*
JOHN MERRIMAN GAUS, Ph.D., *Professor of Political Science*
CHESTER LLOYD JONES, Ph.D., *Professor of Economics and Political Science*
PITMAN BENJAMIN POTTER, Ph.D., *Professor of Political Science*
JOSEPH PRATT HARRIS, Ph.D., *Associate Professor of Political Science*
FORD HERBERT MACGREGOR, M.A., *Associate Professor of Political Science*
WALTER RICE SHARP, Docteur en Droit, *Associate Professor of Political Science*
JAMES A. CLIFFORD GRANT, Ph.D., *Assistant Professor of Political Science*
GRAYSON LOUIS KIRK, M.A., *Assistant Professor of Political Science*
JACOB MARK JACOBSON, M.A., *Instructor in Political Science*

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 1, given each semester and intended primarily for sophomores, is the normal gateway to study in the field of political science and should, if possible, be taken prior to (at any rate concurrently with) other courses in the department. Courses which can be taken to advantage immediately after course 1 include courses 2, 7a, 7b, 13, 112, 122, 123, 125, 126, 127, 134, 137, 139, 140, 141, 143, and 165, according to the interest of the student.

MAJOR. 25 credits, including thesis. Major students who have not had the equivalent of 1 must take this course. Other courses that may well be included are 101, 112, 122, 125, 127, 128, 131, 137. 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.

I. POLITICAL PRINCIPLES AND THEORIES

101. ELEMENTS OF POLITICAL SCIENCE. I; 3 cr. Prerequisite: Full sophomore standing. A survey of the principles of political organization and practice. 9 MWF. Mr. Grant.

165. HISTORY OF AMERICAN POLITICAL IDEAS. I, II; 3 cr. Prerequisite: Full sophomore standing. An historical and analytical survey. The major political ideas of each historical period are examined in relation to the social and economic environment and to the political controversies of the time. 11 MWF. Mr. Jacobson.

245. HISTORY OF EUROPEAN POLITICAL THOUGHT. Yr; 3 cr. Prerequisite: Graduate standing or consent of instructor. A study of the political thought developed out of the Greek city state, the Roman Empire, the medieval state, and the modern state. 2:30 MWF. Mr. Gaus.

II. AMERICAN GOVERNMENT

1. INTRODUCTION TO GOVERNMENT AND POLITICS. I, II; 3 cr. Not open to freshmen. The meaning of citizenship in our modern world, as revealed by a survey study of public opinion, political parties and propaganda, political leadership, the legislative process, administrative areas and services, the judicial process, and civil liberty. Based primarily upon American problems, but with some reference to foreign states and world politics. Lectures by members of the department, discussions, laboratory problems. Lecture 9 F; two quizzes. Mr. Gaus and staff.

7a. AMERICAN GOVERNMENT AND POLITICS, NATIONAL. I, II; 3 cr. Not open to freshmen. An introduction to the problems of American national politics. Not offered 1930–31.

7b. AMERICAN GOVERNMENT AND POLITICS, STATE. II; 3 cr. Not open to freshmen. A survey of the principal problems and institutions of state governments, with particular attention to elections and parties. Designed primarily as training for effective citizenship. Mr. Harris.

13. MUNICIPAL GOVERNMENT. I, II; 2 cr. Prerequisite: Full sophomore standing. A study of the organization and politics of city governments, including the city as a political unit, home rule, the mayor, the city council, commission and city manager forms of government, and municipal politics. I—9 TT; II—10 TT. Mr. Harris.

110. NATIONAL GOVERNMENT OF THE UNITED STATES. II; 3 cr. A somewhat more advanced course than 7a. Prerequisite: Pol. Science 1 or consent of instructor. 9 MWF. Mr. Jacobson.

114. PRACTICAL PROBLEMS OF MUNICIPAL GOVERNMENT. I; 3 cr. Prerequisite: Pol. Science 7a, 7b, 13, or consent of instructor. 8 MWF. Mr. MacGregor.

115. SOCIAL PROBLEMS OF MUNICIPAL GOVERNMENT. II; 3 cr. Prerequisites: Full junior standing and Pol. Science 1, 7a, 7b, or 13, or consent of instructor. 9 MWF. Mr. MacGregor.

122. POLITICAL PARTIES AND PARTY PROBLEMS. I, II; 3 cr. Prerequisite: Full sophomore standing. An analytical and critical study of the principal problems of politics and political parties, including party machines, the spoils system, nominating methods, political campaigning, expenditures, the conduct of elections, and participation in politics. 11 MWF. Mr. Harris.

123. AMERICAN DIPLOMACY: ORGANIZATION AND PRACTICE. I; 2 cr. Prerequisite: Political Science 7a. State Department; foreign service, diplomatic and consular; treaty-making power; principles of foreign policy. Lectures, reading, discussions. Consultation regarding entrance to the foreign service. 9 TT. Mr. Potter.

126. PRINCIPLES OF LEGISLATION. II; 3 cr. Prerequisite: Political Science 7a, 7b, or 112. A study of the functions, organization, and procedure of legislative bodies and an analysis of the problems and principles of lawmaking. 9 MWF. Mr. Jacobson.

134. COUNTY AND TOWNSHIP GOVERNMENT IN THE UNITED STATES. I; 2 cr. Prerequisite: Full sophomore standing. Emphasis is placed upon the rural local institutions of the states of the Middle West. Not offered 1930–31.

135. MUNICIPAL ADMINISTRATION. II; 3 cr. Prerequisite: Political Science 1, 7a, 7b, or 13, or senior standing. A survey of the work of city government: city planning, zoning, engineering problems, crime and police administration, parks and playgrounds, health, housing, poor relief, transportation, etc. 8 MWF. Mr. Harris.

139. GOVERNMENT OF WISCONSIN. I; 2 cr. Prerequisite: Political Science 1, 7a, or 7b. A study of the administrative activities of the state of Wisconsin, frequent comparisons being made with the governments of other states. 11 TT. Mr. Jacobson.

143. INTRODUCTION TO PUBLIC ADMINISTRATION. I; 3 cr. Prerequisite: Political Science 7a or 7b or consent of instructor. This course deals with the organization, management, and control of public administration. The principal problems considered are: departmental organization and reorganization movements, financial control, civil service and personnel administration, and public reporting. 9 MWF. Mr. Harris.

248. SEMINARY IN POLITICAL PARTIES. II; 2 cr. Prerequisite: Graduate standing or consent of instructor. 3:30–5:30 M. Mr. Harris.

258. SEMINARY IN ADMINISTRATION. II; 2 cr. Prerequisite: Graduate standing or consent of instructor. Mr. Sharp.

III. FOREIGN AND COMPARATIVE GOVERNMENT

124. FEDERALISM IN THE BRITISH DOMINIONS. II; 2 or 3 cr. Prerequisite: Political Science 1, 7a, 127, or 128, or consent of instructor. A functional study of selected problems in the working of dominion federalism. Not offered 1930–31. Mr. Sharp.

127. COMPARATIVE GOVERNMENT: ENGLAND. I; 3 cr. Prerequisite: Full junior standing. Chiefly the English constitutional and governmental system, compared with other systems, but also some study of political parties and party phenomena. 10 MWF. Mr. Sharp.

128. COMPARATIVE GOVERNMENT: CONTINENTAL EUROPE. II; 3 cr. Prerequisite: Full junior standing. Similar in type of content to 127, but dealing mainly with the French, German, Swiss, and other Continental political systems. 10 MWF. Mr. Sharp.

130. GOVERNMENTS AND POLITICS OF LATIN AMERICA. II; 3 cr. Prerequisite: Political Science 7a or equivalent. A survey of political and legal institutions. Not offered in 1929–30. Mr. Lloyd Jones.

250. ADVANCED COMPARATIVE GOVERNMENT. Yr; 3 cr. Courses 127 and 128 are designed primarily for undergraduates. Graduate students are expected ordinarily to take course 250. Emphasis in the first semester is on the governments of England and the United States compared; in the second, on the governments of Continental Europe, especially of France and Germany. 10 MWF. Mr. Ogg.

IV. INTERNATIONAL ORGANIZATION AND RELATIONS

121. DEPENDENCIES AND THEIR INTERNATIONAL STATUS. II; 2 cr. Prerequisite: Political Science 125 or 137 or consent of instructor. Types of colonies. American dependencies, British dominions, mandates. 9 TT. Mr. Potter.

125. GENERAL SURVEY OF WORLD POLITICS. I; 3 cr. Prerequisite: Full sophomore standing. An analytical introduction to the foundation of international relations: nationalism; imperialism; racial, populational, and economic factors; war; the settlement of international disputes by methods other than war; recent and contemporary foreign policies. Lectures, informal discussions, debates, laboratory problems. 1:30 MWF. Mr. Kirk.

131. THE UNITED STATES AND LATIN AMERICA. I, II; 3 cr. Prerequisite: Full sophomore standing. A survey of diplomatic and economic relations of the United States with the Latin American states, and of their bearings upon world politics. 10 MWF. Mr. Lloyd Jones.

133. AFRICA AND THE NEAR EAST. II; 2 cr. Prerequisite: Full sophomore standing. Two-thirds of the course devoted to the partition of Africa and the subsequent international interests and policies, and the remainder to problems of the European and Asiatic Near East since the World War. 10 TT. Mr. Kirk.

137. INTERNATIONAL ORGANIZATION AND THE LEAGUE OF NATIONS. I, II; 3 cr. Prerequisite: Full sophomore standing. Diplomacy, treaties, arbitration, international bureaus, conferences, and international federation; the League of Nations. Lectures, reading, discussions. 11 MWF. Mr. Potter.

140. FAR EASTERN POLITICS: HISTORICAL DEVELOPMENT, 1830–1914. I; 2 cr. Prerequisite: Full sophomore standing. A survey of international relations and governmental developments in the Far East from the opening of active contact with Western states and peoples. 11 MW. Mr. Ogg.

141. FAR EASTERN POLITICS: RECENT AND CONTEMPORARY. II; 2 cr. Prerequisites: Full sophomore standing and Political Science 140 or consent of instructor. International, governmental, and economic problems and developments; the United States and Pacific Asia; the Philippines. 11 MW. Mr. Ogg.

251. SEMINARY IN LATIN AMERICA. Yr; 2 cr. Prerequisite: Graduate standing. Mr. Lloyd Jones.

255. SEMINARY IN WORLD POLITICS. Yr; 2 cr. Deals principally with topics relating to Pacific Asia. Either semester's work may be taken separately; and, normally, graduate students should enroll in this course rather than in course 140 or 141. 3:30–5:30 Tu. Mr. Ogg.

259. SEMINARY IN INTERNATIONAL LAW. II; 2 cr. 3:30–5:30 M. Mr. Potter.

260. SEMINARY IN INTERNATIONAL ORGANIZATION AND THE LEAGUE OF NATIONS. I, II; 2 cr. 3:30–5:30 W. Mr. Potter.

V. PUBLIC LAW AND JURISPRUDENCE

2. ELEMENTARY LAW AND JURISPRUDENCE. II; 3 cr. Prerequisite: Full sophomore standing. The nature, origin, and development of our legal system; the general rules governing contracts, torts, crimes, etc.; administrative tribunals, and the liability of public officers; problems of judicial organization and procedure. 10 MWF. Mr. Grant.

109. ROMAN LAW. I; 3 cr. Prerequisite: Full sophomore standing. Not offered 1930–31. Mr. Grant.

112. INTRODUCTION TO CONSTITUTIONAL LAW. I; 3 cr. Prerequisite: Political Science 1, 2, or 7a. A study of the federal constitution as interpreted by the courts in actual controversies involving various sections and clauses. 11 MWF. Mr. Grant.

118. PRINCIPLES OF INTERNATIONAL LAW. I; 3 cr. Prerequisite: Full sophomore standing. Introductory survey of principles and rules of law of peace and war. Text and case reading, class discussion, hypothetical cases. 1:30 MWF. Mr. Potter.

144. THE POLICE POWER AND SOCIAL LEGISLATION. II; 3 cr. Prerequisite: Political Science 112 with grade of B or above, or consent of instructor. The course deals primarily with the constitutional aspects of legislation the aim of which is to promote health, safety, morals, and the general social welfare. 4–5:30 TT. Mr. Grant.

261. SEMINARY IN LEGISLATION AND CONSTITUTIONAL LAW. II; 2 cr. Not offered 1930–31. Mr. Grant.

VI. MISCELLANEOUS

100. THESIS. Yr; 2 cr. Staff.

180. SPECIAL WORK. I, II; 2 or 3 cr. This course is intended primarily for upper-group undergraduates, but may be taken by graduates. The work is carried on individually, under the direction of some member of the staff.

PSYCHOLOGY

V. ALLEN CHARLES HENMON, Ph.D., *Professor of Psychology, Chairman*
FRANK CHAPMAN SHARP, Ph.D., *Professor of Philosophy*
RICHARD WELLINGTON HUSBAND, Ph.D., *Assistant Professor of Psychology*
ARTHUR THOMAS JERSILD, Ph.D., *Assistant Professor of Psychology*

MAJOR. A minimum of 24 credits, including courses 103, 104, and a thesis. At least 12 of these credits must be obtained in courses numbered over 100. None of the courses in this department is open to freshmen. Psychology 1 is prerequisite to all other courses in psychology.

1. INTRODUCTORY PSYCHOLOGY. I, II; 3 cr. A study of the basic principles of human mental life, habit formation, learning, the influence of heredity and environment, emotion, reasoning, imagination, personality. Lecture 9 MW; quiz. Mr. Jersild and staff.

50. APPLIED PSYCHOLOGY. II; 2 cr. Applications of psychology to various occupations. Vocational guidance; selection of workers; personnel; salesmanship; advertising. 9 TT. Mr. Husband.

100. THESIS. Yr; 2 cr. Staff.

103. EXPERIMENTAL PSYCHOLOGY. I; 3 cr. 11 MW; lab. Lab. fee $2.00. Mr. Husband.

104. EXPERIMENTAL PSYCHOLOGY. II; 3 cr. 11 MW; lab. Mr. Husband.

107. ABNORMAL PSYCHOLOGY. II; 3 cr. 10 TT; quiz. Mr. Jersild.

108. PSYCHOLOGY OF THE EMOTIONS. I; 2 cr. 11 TT. Mr. Henmon.

111. PSYCHOLOGY OF THINKING. II; 3 cr. A study of the higher intellectual processes and their relation to action. James' *Principles of Psychology* serves as the basis of study and discussion. Mr. Sharp.

115. VOCATIONAL APTITUDE TESTS. I; 3 cr. Prerequisite: Psychology 103, 104, or Educ. 147. Senior and graduate students who have had a course in statistics will be admitted provided they take Psychology 103 simultaneously. 9 TT; lab. Lab. fee $2.00. Mr. Husband.

123. SOCIAL PSYCHOLOGY. II; 3 cr. 8 MWF.

124. PSYCHOLOGY OF SOCIAL INSTITUTIONS. I; 3 cr. 1:30 MWF.

125. HUMAN MOTIVES. II; 3 cr. 9 MWF.

143. INDIVIDUAL DIFFERENCES AND THE MEASUREMENT OF INTELLIGENCE. II; 3 cr. 10 MWF. Mr. Henmon.

144. THE PSYCHOLOGY OF LEARNING. I; 3 cr. 10 MWF. Mr. Henmon.

146. MENTAL TESTS. Yr; 3 cr. 1:30 MW; lab. Mr. Torgerson.

147. PSYCHOLOGY OF CHILDHOOD AND ADOLESCENCE. I; 3 cr. 11 MWF. Mr. Jersild.

153. ANIMAL PSYCHOLOGY. I; 3 cr. Offered 1929–30 and in alternate years. 10 MW; lab.

154. PSYCHOBIOLOGY. I; 3 cr. 11 MWF.

155. COMPARATIVE PSYCHOLOGY. I, II; 2 or 3 cr. Offered 1930–31 and in alternate years. Lab. fee $2.00.

161. BEHAVIORISM AND GESTALT. I; 3 cr. 9 MWF.

162. ADVANCED COURSE IN BEHAVIORISM. II; 2 cr. Prerequisites: Psychology 161; consent of instructor. 9 TT.

200. RESEARCH. Yr; *cr. Staff.

210. SEMINARY. Yr; 2 cr. Prerequisite: Consent of instructor. Mr. Henmon.

214. SEMINARY. Yr; 2 cr. Prerequisite: Consent of instructor. 7:30 p. m. Th. Mr. Husband.

218. SEMINARY. Yr; 2 cr. Prerequisite: Consent of instructor. Mr. Jersild.

225. SEMINARY. II; 2 cr. Prerequisite: Consent of instructor.

ROMANCE LANGUAGES

See French and Italian, page 163; Spanish and Portuguese, page 226.

SCANDINAVIAN LANGUAGES AND LITERATURE

JULIUS EMIL OLSON, B.L., *Professor of Scandinavian Languages and Literature*

1. FIRST-YEAR NORSE. Yr; 4 cr. Primarily for freshmen. 9 MTTF.

2. SECOND-YEAR NORSE. Yr; 4 cr. Literary selections. A continuation of Norse 1. 10 MTTF.

4. NOVELS, DRAMAS, AND LITERARY HISTORY. Yr; 3 cr. A continuation of Norse 2. 11 MWF.

74. IBSEN'S *BRAND* AND *PEER GYNT*. I; 2 cr. Lectures and readings in English, with a general survey of Norse literature, ancient and modern. 1:30 TT.

108. OLD NORSE. Yr; 2 cr. Mr. W. E. Leonard.

SEMITIC LANGUAGES AND HELLENISTIC GREEK

FREDERICK THOMAS KELLY, Ph.D., *Assistant Professor of Semitic Languages*

The various courses in this department are adapted to the needs of: (1) The general student who desires to extend his culture 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 prospective theological student, or those already in the ministry, since the Semitic peoples furnish materials of the highest importance for theology; (3) the student of philosophy, comparative religion, and comparative literature; (4) the student of ancient history, anthropology, and sociology who desires to come into contact with the earliest monuments and records; (5) the student of linguistics who desires a view of the most important family of languages, a knowledge of which is essential to a thorough understanding of language processes; (6) the student of Semitic languages, literature, 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. The language work of the department may be begun with Hebrew, Hellenistic Greek, or Arabic.

Courses of this department regularly open to freshmen are Hebrew 1, 3, and 7; these are counted in satisfaction of the foreign-language requirement.

MAJOR. A minimum of 20 credits, including thesis, made up from any of the courses offered in one or more languages, excepting 1 and 16.

1. ELEMENTARY HEBREW. Yr; 4 cr. General principles of the language. 9 MTWF.

3. SECOND-YEAR HEBREW. Yr; 2 cr. With additional work assigned by the instructor, this course may be given graduate credit. Reading of Samuel and Deuteronomy. Review of grammar. 11 MW.

7. HEBREW PROSE COMPOSITION AND CONVERSATION. Yr; 1 or 2 cr.

26. HISTORICAL GEOGRAPHY AND ARCHAEOLOGY OF PALESTINE. Yr; 2 cr. Given in English. Either semester may be taken independently. 10 TT.

28. SURVEY OF SEMITIC LITERATURE. II; 2 cr. The masterpieces of Hebrew, Arabic, and general Semitic literature in English.

105. THE MINOR PROPHETS. Yr; 2 cr. 11 TT.

112. ELEMENTARY ARABIC. Yr; 2 cr. The sounds, inflections, and broad outlines of syntax; exercises and readings of easy prose; acquirement of vocabulary; use of Arabic for lexicographical purposes; comparison with Hebrew.

127. THE PSALMS—BOOKS I AND II. Yr; 2 cr. Form and characteristics of Hebrew poetry with an introduction to the theories of Hebrew metre.

OFFERED ONLY WHEN DEMAND WARRANTS

16. ELEMENTARY HELLENISTIC GREEK. Yr; 4 cr. For those who have not studied Classical Greek.

106. THE BOOK OF JOB. Yr; 2 cr. A critical study of the text with a consideration of Hebrew wisdom, literature, and philosophy and the problem of suffering among the Hebrews.

108. HEBREW SYNTAX. Yr; 2 cr. Systematic study of the details of Hebrew syntax and the thought processes of the Hebrews as revealed in the syntax, with reading of illustrative passages and composition.

113. ADVANCED ARABIC. Yr; 2 cr. Reading course in the Qur'ân and selections from the Arabic historians; lectures and readings on the early history of Islam, history of the Qur'ân.

114. ELEMENTARY ASSYRIAN. Yr; 2 cr. The sounds; correspondence of Hebrew and Arabic with Assyrian; inflections; study of the signs. Reading of selected texts. Friedrich Delitzsch, Assyrian Grammar, and Assyrische Lesestücke, 4th ed. Introduction to Sumerian. The use of Assyrian for Hebrew and Semitic lexicography. Assyrian discoveries.

129. BIBLICAL ARAMAIC (ten weeks); SYRIAC (the remainder of the year). Yr; 2 cr. The dialects of Syriac; use of Syriac for comparative purposes.

209. ADVANCED HEBREW SYNTAX. I; 2 cr. Study of special problems in Hebrew syntax with reports by members of the class. Historical syntax.

210. ADVANCED HEBREW ETYMOLOGY. II; 2 cr. The origin and development of the Hebrew inflections; historical and comparative study of the verbal system. A knowledge of Arabic is essential for this course; it may, therefore, be taken by those who have had or are taking Semitics 112.

211. HEBREW SEMINARY. Yr; 2 cr. Hebrew legal, historical, poetical, and prophetical literature will be the subject in successive years. Some one representative book of each type will form the nucleus of the work. The work of the seminary is supplemented by those reading courses of which the subject is parallel with that of the seminary for the year. A knowledge of Hellenistic Greek, Latin, German, and French is necessary for effective work. Capable students, however, not having a knowledge of all the languages specified will be admitted to the seminary with the permission of the instructor.

SOCIOLOGY AND ANTHROPOLOGY

EDWARD ALSWORTH ROSS, Ph.D., LL.D., *Professor of Sociology, Chairman*
JOHN LEWIS GILLIN, Ph.D., *Professor of Sociology*
JOHN HARRISON, KOLB, Ph.D., *Professor of Rural Sociology*
ELLIS KIRKPATRICK, Ph.D., *Associate Professor of Rural Sociology*
RALPH LINTON, Ph.D., *Associate Professor of Social Anthropology*
KIMBALL YOUNG, Ph.D., *Associate Professor of Sociology*
HELEN ISABEL CLARKE, M.A., *Assistant Professor of Sociology*

MAJOR

For a major in sociology thirty credits are required, including the following: three credits each in Sociology 32 and 140; for upper-group students, four credits of thesis and twenty additional credits in sociology and anthropology; for lower-group students twenty-four additional credits in sociology and anthropology. These additional credits shall be selected in conference with the major adviser. To be eligible for graduation, students are required to earn as many grade-points as credits in the major.

The thesis, which is required of upper-group students, may be written in any one of the fields designated in Groups I–VI, as described on subsequent pages. A minimum of two related courses in the field selected is required as a background for the thesis. Lower-group students, i. e., students who fail to earn fifty per cent more grade-points than credits, are barred from writing a thesis and from rights and privileges as to courses which upper-group status confers. Such students must, however, offer three courses in any one of the fields of concentration into which the work sociology and anthropology is divided.

INDEPENDENT READING AND RESEARCH

Upper-group students who major in sociology and anthropology and who have done distinctly superior work may, beginning with their junior year, undertake special work (Sociology 180) outside of regular class instruction. Assignments will be made by professors in charge of the various fields and conferences will be held on such assigned work. An examination will be held toward the end of the junior year on such independent work as shall have been assigned for that year. Toward the end of the senior year there will be a final examination which will include sociological theory, the field of special concentration, and the independent work done under assignments in Sociology 180.

SOCIAL WORK

PROFESSOR J. L. GILLIN IN CHARGE

The demand for trained workers in the different fields of social service is greater than can be supplied. The fields include family and child welfare, juvenile protection and probation, mothers' pensions, medical and psychiatric social work, and the work of school attendance officers, community chest executives, and visiting teachers. To help supply this need, the Department of Sociology and Anthropology has coordinated the courses offered in the University which provide background training for social work, thereby giving students who desire a liberal education the fundamental and

technical training which will hasten their preparation for work in this field. Some of these courses supply that broad liberal background necessary to an understanding of society, past and present, while others provide technical training in the adjustment of personality to social conditions on the one hand, and of social conditions to personality on the other. Proficient students are recommended directly to social agencies as visitors in training or for fellowships and scholarships in professional training schools of social work. Close affiliations are maintained with the Milwaukee School of Social Work. At this institution the student is placed on the staff for a stipend which amounts to a fellowship and finishes his training while earning his living.

At the present time arrangements are made for the student who is looking forward to social work to prepare himself for two different kinds of work,—(1) family case work, and (2) group work. For the first type he does 250 hours of field work in the Madison Public Welfare Association or Juvenile Court; for the second, he does the same amount of field work with the Neighborhood House, the Y. W. C. A., Y. M. C. A., the Boy Scouts, or some other agency with which proper arrangements have been made and which deals with group activities. In both cases the field work is supervised by the University. Only a limited number of students can be admitted to these classes.

During the last three years the following courses should be taken, preferably in the years suggested:

SOPHOMORE YEAR

First Semester	Credits	Second Semester	Credits
Econ. 1a—General economics	4	Soc. 2—Introductory sociology	3
Soc. 1—Introductory sociology	3	Phys. Ed. 80—Community recreation	2
Soc. 46—Social anthropology	3		

JUNIOR YEAR

Soc. 141—Poverty and relief	3	Soc. 161—Criminology and penology	3
Soc. 139—Social psychology	3	Soc. 32—Social statistics	3
Zool. 106—Heredity and eugenics	2	Soc. 197—The individual and social adjustment	3
Home Econ. 47—Diet problems in feeding children	3	Psych. 107—Abnormal psychology	3
Psych. 1—Introductory psychology	3	Soc. 172—Immigration and race problems	3

SENIOR YEAR

Soc. 147—Introduction to social case work*	2	Soc. 140—Principles of sociology	3
Soc. 148—Introduction to group work*	2	Soc. 164—Principles of social case work*	2
Soc. 177—Social agencies and social legislation	2	Soc. 165—Principles of group work*	2
Soc. 25—Rural life	3	Soc. 178—Social organization and administration	2
Econ. 122—Labor problems	3	Soc. 162—Child welfare	2

* Which of these two should be taken depends upon the field for which the student is preparing.

I. SOCIOLOGICAL THEORY

1. INTRODUCTORY SOCIOLOGY. I; 3 cr. The community; processes and products of interaction; society and the person; social change. Prerequisite: Full sophomore standing. Lecture 8 M; two quizzes. Mr. Ross and staff.

2. INTRODUCTORY SOCIOLOGY. II; 3 cr. Population, crime, disease, marriage and divorce, women and children in industry, immigration, poverty, insanity, etc., as they reveal underlying social maladjustments. Prerequisite: Sociology 1 or consent of instructor. Lecture 8 M; two quizzes. Mr. Gillin and staff.

139. SOCIAL PSYCHOLOGY. I; 3 cr. Place of emotions, habits, fantastical and objective thinking in social behavior, particularly as seen in prejudice, leadership, fashion, crowd behavior, mental epidemics, audiences, public opinion, propaganda, and censorship. Prerequisites: For sociology majors, Sociology 1 and 2, or 46, or concurrent registration in 1; for others, junior standing. 10 M; two quizzes. Mr. Young.

140. PRINCIPLES OF SOCIOLOGY. II; 3 cr. Growth and shifting of population; genesis and life history of groups; social processes and products; ultimate tests of social policies. Prerequisites: For sociology majors, Sociology 1 and 2, or 46; for others, senior standing or consent of instructor. 8, 9, 10, or 11 MWF. Mr. Ross.

163. POPULATION PROBLEMS. I; 2 cr. Population pressure, conquest of disease, fall in the birth rate, growth of numbers, prospects of the food supply, control of immigration. Prerequisite: Senior standing. 8 WF. Mr. Ross.

172. IMMIGRATION AND RACE PROBLEMS. II; 3 cr. Migrations of mankind in modern times. Particular attention to American immigration. Governmental immigration policies; economic, social, and political immigration problems, race problems. Prerequisites: Econ. 1a, or American history and junior standing. 9 TT; quiz. Mr. Lescohier.

180. INDEPENDENT READING IN SOCIOLOGY OR ANTHROPOLOGY. Yr; *cr. Reading may be in any field for which student has an adequate background. Prerequisite: Candidacy for degree with honors in major. Students electing this work will be expected to pass comprehensive examinations on the field of their major. Staff.

197. INDIVIDUAL AND SOCIAL ADJUSTMENT. II; 3 cr. (See Group III.)

239. SEMINARY IN SOCIAL PSYCHOLOGY. II; 2 cr. Various topics from year to year: (1) public opinion and social control; (2) language and culture, with particular reference to the types of thought and the relationship of language to thinking and the nature of culture; (3) psychology of leadership. Subject for 1930–31: Language and culture. 7:15–9:15 M. Mr. Young.

246. SEMINARY IN SOCIAL INSTITUTIONS. I; 2 cr. Nature and function of social institutions. Critical examination of the evolutionary theory of institutions. One type of institution discussed as an example of institutional development from the historical-cultural and social-psychological angles. 7:15–9:15 M. Mr. Young.

261. SEMINARY ON GROUP CONFLICT. II; 2 cr. Causes, phases, and results of conflict between racial, natural, religious, political, and social groups in society; means of avoiding or allaying inter-group antagonisms. Not offered 1930–31. Mr. Ross.

262. SEMINARY ON AMERICAN FAMILY. I; 2 cr. Not offered 1930–31. Mr. Ross.

263. SEMINARY ON SOCIAL MOBILITY. I; 2 cr. Societies from the point of view of the mobility of families and individuals within the social framework. Comparative shares of inheritance and of social environment in determining individual destiny. Lab. fee $1.00. 7:15–9:15 W. Mr. Ross.

264. RESEARCH SEMINARY. II; 2 cr. Field of investigation selected for 1931: Race relations in the world's chief areas of race contact. Lab. fee $1.50. 7:15–9:15 W. Mr. Ross.

270. HUMAN ECOLOGY. I; 2 cr. The distributive aspects of population, social and economic institutions, and various functional groups. Analysis of accommodations of different groups to one another in terms of spatial and temporal relations. Not offered 1930–31. Mr. Young.

276. HISTORY OF SOCIOLOGICAL THOUGHT. II; 3 cr. Social thought from Plato to Comte presented briefly. Principal emphasis on theory of Comte, Spencer, Bagehot, Tarde, Gumplowicz, Ratzenhofer, Simmel, Ward, Durkheim, Weber, Giddings, Cooley, and Boas. The relation of social theory to political, social, and economic backgrounds is emphasized throughout. 2:30 MW. Mr. Gillin.

280. READING AND RESEARCH IN SOCIOLOGY AND ANTHROPOLOGY. Yr; *cr. Work suited to individual graduate students may be arranged. Prerequisite: Advanced graduate standing. Staff.

II. SOCIAL ANTHROPOLOGY

46. SOCIAL ANTHROPOLOGY. I; 3 cr. The pre-history of man and his culture, the development of civilization, and the sources of our own civilization. Prerequisite: Sophomore standing. 11 TT; quiz. Mr. Linton.

102. RACES OF AFRICA. I; 3 cr. The races and culture of Africa, both ancient and modern. Prerequisite: Sociology 46. Not offered 1930–31. Mr. Linton.

104. PEOPLES OF EUROPE AND ASIA. II; 3 cr. Race and culture in Europe and Asia, including European pre-history. Prerequisite: Sociology 46. 9 TT; quiz. Mr. Linton.

106. SOCIAL ETHNOLOGY. II; 3 cr. Selected groups of different culture, with especial reference to their social and economic organization. Prerequisite: Sociology 46 or consent of instructor. 11 TT; quiz. Mr. Linton.

109. RACES OF OCEANIA. II; 3 cr. The races and cultures of Australia, Melanesia, Micronesia, and Polynesia. Prerequisite: Sociology 46. Not offered 1930–31. Mr. Linton.

149. THE NORTH AMERICAN INDIAN. I; 3 cr. The pre-European cultures of North America. Prerequisite: Sociology 46. 9 TT; quiz. Mr. Linton.

204. CULTURAL ANTHROPOLOGY. Yr; 2 cr. Discussion of current anthropological literature and selected topics. Prerequisite: Graduate standing or consent of instructor. 7:15–9:15 Th. Mr. Linton.

III. SOCIAL PATHOLOGY

141. POVERTY AND RELIEF. I; 3 cr. Extent of poverty and pauperism; causes of poverty and dependency; historical institutions and methods of dealing with dependents; special classes of dependents like the aged, the insane, epileptic, dependent children; preventive agencies and methods. Prerequisites: For sociology majors, Sociology 1 and 2 or concurrent registration in 1; for others, junior standing or concurrent registration in 1. Lecture 11 M; two quizzes. Mr. Gillin.

158. DEGENERACY AND SOCIETY. I; 2 cr. The various forms of degeneracy, with special emphasis upon mental and social degeneracy; the relationship of mental and physical degeneracy to such social problems as crime, pauperism, divorce, religion, industry, rural and city life, war, vice. Prerequisite: Sociology 141 or 161 or senior standing. 2:30–4:20 M. Fee $2.00. Mr. Gillin.

161. CRIMINOLOGY AND PENOLOGY. II; 3 cr. The problem of crime and criminals; extent and cost of crime; the making of the criminal; the history of punishment; modern penal institutions; the machinery of justice. Prerequisites: For sociology majors, Sociology 1 and 2 or concurrent registration in 2; for others, junior standing or concurrent registration in 2. Lecture 11 M; two quizzes. Mr. Gillin.

197. THE INDIVIDUAL AND SOCIAL ADJUSTMENT. II; 3 cr. Personality treated from the angle of group participation, especially in the family, play group, gang, neighborhood, school, church, and various community groups. Literature on problem children, juvenile delinquency, and adolescence examined critically. Prerequisites: Psychology 1 or Sociology 139, and junior standing. Lab. fee $1.00. 10 M; two quizzes. Mr. Young.

256. DEVELOPMENT OF CORRECTIONAL POLICIES. I; 2 cr. Theories and policies relating to the criminal and his treatment; the evolution of punishment; the relation of canon law to secular criminal law; the classical theory of punishment; the Italian School; modern theories and policies. Not offered 1930–31. Mr. Gillin.

259. DEVELOPMENT OF POOR RELIEF POLICY. I; 2 cr. The development of poor relief theories and policies from ancient times to the present. 7:15–9:15 Tu. Mr. Gillin.

268. RESEARCH SEMINARY. I; 2 cr. Discussion of types of social research methodology; specific pieces of research by members of the seminary. 2:00–4:00 Tu. Mr. Young.

269. RESEARCH SEMINARY. II; 2 cr. Special problems of research in the field of community studies and social psychology. 2:00–4:00 Tu. Mr. Young.

IV. SOCIAL WORK

147. INTRODUCTION TO SOCIAL CASE WORK. I; 2 cr. with 100 hours of field work at local Public Welfare Association or Juvenile Court, or 1 cr. without field work. The use of the first interview and sources such as relatives, employers, schools. The methods of social diagnosis. Prerequisites: Sociology 177 or concurrent registration; senior or graduate standing and consent of instructor. Students have the option of taking Sociology 147 or 148, but may not take both courses. 3:30 Tu. Miss Clarke.

148. INTRODUCTION TO GROUP WORK. I; 2 cr. with 100 hours of field work at Neighborhood House, Y. W. C. A., Y. M. C. A., Boy Scouts, etc., or 1 cr. without field work. The importance of the group. The meaning and methods of socialization. Legal and social questions as they affect the foreigner. Prerequisites: Sociology 177 or concurrent registration; senior or graduate standing and consent of instructor. Students have the option of taking Sociology 147 or 148, but may not take both courses. 3:30 Th. Miss Clarke.

162. CHILD WELFARE. II; 2 cr. Proportion of children in the population; the dependent, delinquent, defective child, his problems and the community's methods of treatment. Prerequisites: Senior standing and consent of instructor. 2:30–4:30 M. Miss Yerxa.

164. PRINCIPLES OF SOCIAL CASE WORK. II; 2 cr. with 150 hours of field work at local Public Welfare Association or Juvenile Court, or 1 cr. without field work. Case-work treatment of executive and leadership types. The social workers' principles of interviewing. Types of treatment given the unmarried mother, deserted family, transient men, etc. Prerequisite: Sociology 147. Students have the option of taking Sociology 164 or 165, but may not take both courses. 3:30 Tu. Miss Clarke.

165. PRINCIPLES OF GROUP WORK. II; 2 cr. with 150 hours of field work at Neighborhood House, Y. W. C. A., Y. M. C. A., Boy Scouts, etc., or 1 cr. without field work. Discussion of group movements, such as the settlement, the school community center, the open forum, boy and girl scouts. Methods and organization of agencies working with groups. Prerequisite: Sociology 148. Students have the option of taking Sociology 164 or 165, but may not take both courses. 3:30 Th. Miss Clarke.

177. SOCIAL AGENCIES AND SOCIAL LEGISLATION. I; 2 cr. Conceptions and types of social work. Statutes and court decisions as they affect the social worker. Prerequisite: Sociology 141 or consent of instructor. Lab. fee $2.00. 2:30 TT. Miss Clarke.

178. SOCIAL ORGANIZATION AND ADMINISTRATION. II; 2 cr. Typical experiments in community organization such as the public health and settlement movements, the federation of social agencies, etc. Theories and principles of community organization. Prerequisite: Sociology 177 or consent of instructor. 2:30 TT. Miss Clarke.

V. RURAL SOCIOLOGY

25. RURAL LIFE. I; 3 cr. The rural life movement with special attention to group organization and rural social institutions, such as family, school, church, social welfare agencies; principles and policies of rural community organization. Prerequisite: Sophomore standing. 10 MWF. Mr. Kolb.

126. RURAL STANDARDS OF LIVING. II; 2 cr. Development of standards of living in rural communities. Consideration of all elements composing the standard of living: food, housing, transportation, education, religion, art, and recreation, in relation to income, trading centers, social institutions, and local groupings. Prerequisite: Junior standing. 3:30–5:30 Tu. Mr. Kirkpatrick.

225. SEMINARY IN RURAL SOCIAL ORGANIZATION. I; 2 cr. Emphasis upon research methodology. Case studies of current projects in rural social research. Particular attention to group organization, population, and institutional relations in rural society. Prerequisite: Sociology 25 or equivalent. 7:30–9:30 Tu. Mr. Kolb.

VI. STATISTICS

32. SOCIAL STATISTICS. I, II; 3 cr. Gathering and analysis of statistical data in the field of sociology and demography. General description of this field. Emphasis on the carrying through of consecutive studies. Effort to develop the relation of statistics to science in general and to the future of the social sciences in particular. Prerequisite: Major in sociology. Lab. fee $1.50. Lecture 1:30 F; 4 hours lab. and discussion. Mr. Mohler.

SPANISH AND PORTUGUESE

JOAQUIN ORTEGA, M.A., *Professor of Spanish, Chairman*
ANTONIO GARCIA SOLALINDE, Litt.D., *Professor of Spanish and Portuguese*
CHARLES DEAN COOL, Ph.D., *Associate Professor of Spanish*
HYMAN CHONON BERKOWITZ, Ph.D., *Assistant Professor of Spanish*
JAMES HOMER HERRIOTT, Ph.D., *Assistant Professor of Spanish*
LAURA BUTLER JOHNSON, M.A., *Assistant Professor of Romance Languages*
ALBERT EDDY LYON, Ph.D., *Assistant Professor of Spanish*

INSTRUCTORS

MATILDE CARRANZA, M.A.
MELISSA ANNIS CILLEY, M.A.
LLOYD AUGUST KASTEN, M.A.
WILLIAM RAY KINGERY, M.A.
EDUARDO NEALE-SILVA, M.A.
KATHRIN MARIE TUFTS, M.A.

NATURE OF THE COURSES. The elementary courses have been planned to meet the needs of students who take up the language for the first time at the University of Wisconsin, as well as of those who have begun the study in high school, or who may transfer from other higher institutions. For purposes of meeting the prerequisites of the courses announced, one unit (year) of high-school work is assumed to be the equivalent of 4 credits, or one semester of college work. The regular first-year courses are 1a and 1b.

The regular second-year courses are 10a and 10b, in which emphasis is placed on the acquisition of a reading knowledge of the language. The second-year practice courses are 15 and 20, usually taught by Spanish-speaking instructors and intended to supplement the training offered in 10a and 10b. The regular third-year course is 21, comprising reading of representative masterpieces with a background of literary history and designed to be an introduction to the study of Spanish literature. This course is a prerequisite to all the other courses in Spanish literature. Students who do excellent work in 10a are allowed to enter 21, omitting 10b, thus reducing by one semester the period of preparation for the more advanced courses. 25 is a third-year practice course, usually taught by Spanish-speaking instructors and intended to supplement the training offered in 21; it may be taken separately. 17 and 27 are special third-year courses designed to meet the needs of students in such technical fields as journalism, commerce, engineering, and agriculture. Spanish 55 (Comp. Lit. 55) is a course offering an approach to Spanish and Portuguese literature to students without the knowledge of the languages. A course in elementary Portuguese is offered, and more advanced work will be established when the demand arises. Portuguese is important in comparative study of the Romance languages, and of practical value as the language of Brazil, the largest republic in America outside of the United States.

The advanced practice courses are 116 and 190, for which the prerequisite is three years of college Spanish; 21 is not a necessary prerequisite. The advanced literary courses have as a prerequisite 21, or equivalent. Several are given in Spanish. Those under 200 are open to undergraduates. A careful rotation is established so that students specializing in literature may have adequate instruction in all genres and epochs.

The philological courses are intended for graduate students, but 141, an introductory course, is open to undergraduates. In special cases, undergraduates may be admitted to advanced philological work with the consent of Professor Solalinde.

Students offering, because of residence in Spanish-speaking countries, individual study, or other reasons, considerable preparation in the language although not formally certified in high-school or university credits, will be given an examination with a view to assigning them to the course best fitted to their needs; and after successful completion of one semester's work in the Department, credit will be given for the omitted lower courses as foreign-language requirement, but not as part of the 120 credits needed for graduation. Students are advised to consult the foreign-language requirements for the B.A. degree, page 58.

MAJOR. 32 credits, including thesis (or 4–6 credits in literature courses numbered above 100 for lower-group students not required to write a thesis).

TEACHING MAJOR AND MINOR. See page 92.

All who intend to specialize in Spanish are advised to elect related courses in classical and modern languages and literatures, comparative literature, history, philosophy, and art history and criticism. Courses especially recommended are Introduction to phonetics (English 185) and Principles and practice of translation (Comp. Lit. 141). Graduate students, especially candidates for the doctorate, should learn Latin, French, and German as early as possible. For a background of information on Spanish countries, the Department recommends: Economics 151 and 251, Geography 101, 102, and 111, and Political Science 130 and 131.

SPANISH HOUSE. The Casa Cervantes, at 251 Langdon Street, close to Lake Mendota and the campus, has been maintained since 1925 by the Department for the purpose of providing, under pleasant social conditions, intensive training in speaking Spanish and a better understanding of the life, art, and literature of Spain and the Spanish-American countries. It is open to women students for room and board, and both men and women living outside are welcome for regular board or a certain number of meals. The Casa has a thoroughly Spanish atmosphere; it possesses a Spanish library, a piano, and a large collection of Spanish music. Spanish is the only language permitted at the tables and during the social hours. Women of Spanish birth reside at the Casa, and there come regularly for meals the instructional force of the Department, which includes several Spanish-speaking people, and also the Spanish-American students in attendance at the University. With approval of the departmental faculty, a part of the prescribed training in conversation necessary for the teachers' certificate may be done in the Casa. The Casa is not a commercial enterprise and is run at moderate prices. Requests for further information and applications for room and board for both the summer session and the regular year, should be addressed, well in advance, to the Chairman, Department of Spanish and Portuguese.

SPANISH CLUB. The Club Cervantes, managed by the students with the co-operation of the Faculty, meets every other week during the year and presents interesting programs consisting of short lectures in Spanish by members of the Faculty or advanced students conversant with the Spanish countries, Spanish songs, games, musicals, dramatic sketches, recitations, picnics, and other social entertainments. Each semester a Spanish play is staged, thus affording an opportunity to the students of participating in important Spanish dramatics.

SPANISH

LANGUAGE

1a. FIRST-SEMESTER SPANISH. I, II; 4 cr. For students who have had no Spanish. 18 sections I; 5 sections II. Mr. Berkowitz, Mr. Herriott, and staff.

1b. SECOND-SEMESTER SPANISH. I, II; 4 cr. Prerequisite: Spanish 1a or one year of high-school Spanish. 4 sections I; 18 sections II. Mr. Berkowitz, Mr. Herriott, and staff.

10a. THIRD-SEMESTER SPANISH. I, II; 3 cr. Prerequisite: Spanish 1b or two years of high-school Spanish. 9 sections I; 3 sections II. Mr. Berkowitz, Mr. Herriott, and staff.

10b. FOURTH-SEMESTER SPANISH. I, II; 3 cr. Prerequisite: Spanish 10a or three years of high-school Spanish. 2 sections I; 7 sections II. Mr. Berkowitz, Mr. Herriott, and staff.

15. ELEMENTARY CONVERSATION. Yr; 1 cr. Prerequisite: Spanish 1b or equivalent. May be taken only with Spanish 10a or 10b. 5 sections. Mr. Lyon and staff.

17. JOURNALISM IN SPAIN AND SPANISH AMERICA. Yr; 2 cr. A study of the current periodicals of the Spanish-speaking world, with supplementary readings and lectures to establish a background of the actual social, economic, and political conditions in the Hispanic countries. Attention will be devoted to journalistic methods and technique. Prerequisite: Spanish 10b or equivalent. Primarily for students in journalism and commerce. 11 TT. First semester: Spain, Mr. Ortega. Second semester: Spanish-America, Mr. Neale–Silva.

20. ELEMENTARY CONVERSATION AND COMPOSITION. Yr; 2 cr. Prerequisite: Spanish 1b or equivalent. Not open to students who have had 10b. 3 sections. Mr. Lyon and staff.

25. INTERMEDIATE CONVERSATION AND COMPOSITION. Yr; 2 cr. Prerequisite: Spanish 10b, or 20, or equivalent. Not open to students with three years of college Spanish. The regular third-year Spanish course, recommended to all students, is Spanish 21. For training in conversation and composition, L and S students with two years of college Spanish should enter Spanish 25, and with three years of college Spanish, Spanish 116. 4 sections. Mr. Lyon and staff.

27. SPANISH COMMERCIAL CORRESPONDENCE. Yr; 2 cr. Prerequisite: Spanish 10b or 20, or equivalent. Open only to students in technical courses. 10 TT. Mr. Cool.

116. CONVERSATION, COMPOSITION, AND ADVANCED GRAMMAR REVIEW. Yr; 2 cr. Prerequisite: Three years of college Spanish. 11 TT. First semester, Mr. Neale–Silva. Second semester, Mr. Ortega.

190. SPANISH PHONETICS. I; 2 cr. Theory of Spanish sounds with practical training in pronunciation. Prerequisite: Three years of college Spanish. 2:30 TT. Mr. Solalinde.

344. THEORY AND PRACTICE OF TEACHING SPANISH. I, II; 3 cr. A practical course dealing with modern methods in high-school teaching. Lectures, discussion, reports, and observation work. 11 TT. Miss Johnson.

LITERATURE

Spanish 21 or equivalent is prerequisite to all other courses in Spanish literature.

21. ELEMENTARY SURVEY. Yr; 3 cr. Introduction to the study of Spanish literature. Representative masterpieces in class, assigned readings, discussion of the literary aspects of the works read and literary history. Prerequisite: Spanish 10b or equivalent. 5 sections. Mr. Berkowitz, Mr. Cool (chairman), Mr. Herriott, Mr. Kasten, Mr. Lyon.

55. SPANISH AND PORTUGUESE MASTERPIECES IN TRANSLATION (Comp. Lit. 55). Yr; 2 cr. A review of the significant traits of Hispanic literatures, and of their relationship to other literatures, from the origins up to the present time; illustrated with selected representative masterpieces. Lectures, class discussions, and supplementary readings. No language prerequisite. Does not carry credit towards the major or minor in Spanish. 9 TT. Mr. Berkowitz.

102. SPANISH CONTEMPORARY LITERATURE. Yr; 3 cr. Lectures in Spanish, discussions in English. 11 MWF. Mr. Ortega.

103. SPANISH LYRICAL POETRY. II; 2 cr. Offered 1930–31 and in alternate years. 11 TT. Mr. Lyon.

104. CERVANTES. Yr; 2 cr. Offered 1931–32 and in alternate years. Mr. Cool.

106. SPANISH DRAMA OF THE EIGHTEENTH AND NINETEENTH CENTURIES. Yr; 2 cr. Offered 1929–30 and in alternate years. Mr. Lyon.

108. SPANISH DRAMA FROM ITS ORIGINS THROUGH THE SEVENTEENTH CENTURY. Yr; 3 cr. Offered 1931–32 and in alternate years. Mr. Ortega.

111. THE SPANISH PICARESQUE NOVEL. Yr; 2 cr. Offered 1930–31 and in alternate years. 9 TT. Mr. Cool.

118. THE SPANISH SHORT STORY. I; 2 cr. Offered 1930–31 and in alternate years. 11 TT. Mr. Lyon.

122. SPANISH NOVEL OF THE NINETEENTH CENTURY. Yr; 3 cr. Offered 1931–32 and in alternate years. Mr. Berkowitz.

126. SPANISH–AMERICAN LITERATURE. Yr; 2 cr. Conducted mainly in Spanish. 10 TT. Mr. Neale-Silva.

131. GENERAL SURVEY OF SPANISH LITERATURE. Yr; 3 cr. Conducted in Spanish. 10 MWF. Mr. Solalinde.

150. SPANISH CIVILIZATION. II; 2 cr. Conducted in Spanish. 2:30 TT. Mr. Solalinde.

171. SPANISH EPIC LITERATURE. Yr; 2 cr. Old Spanish epics and their later developments. Conducted in Spanish. Offered 1931–32 and in alternate years. Mr. Solalinde.

200. INDIVIDUAL RESEARCH. Yr; credit commensurate with work accomplished. Well qualified graduate students may undertake individual research in some definite field. 4:30 Th. Mr. Solalinde.

201. METHODS OF INVESTIGATION AND BIBLIOGRAPHICAL INFORMATION. Yr; 1 cr. Required of all graduate students who have not had this training elsewhere. 3:30 Th. Mr. Solalinde.

205. SEMINARY, EIGHTEENTH CENTURY. Not offered 1930–31. Mr. Lyon.

209. SEMINARY, HISTORY OF LITERARY CRITICISM IN SPAIN. Not offered 1930–31. Mr. Berkowitz.

230. SEMINARY, TIRSO DE MOLINA AND THE CLASSICAL DRAMA. 3:30–5:30 F. Mr. Ortega.

PHILOLOGY

141. SPANISH HISTORICAL GRAMMAR. Yr; 2 cr. Elementary phonology and morphology. An introductory course to Spanish philology. Prerequisite: Three years of college Spanish. Offered 1930–31 and in alternate years. 9 MW. Mr. Berkowitz.

210. PHILOLOGICAL SEMINARY, OLD SPANISH. Yr; 2 cr. Offered 1929–30 and in alternate years. 1929–30: The language of Alfonso X. 1931–32: The language of Gonzalo de Berceo. Mr. Solalinde.

273. COMPARATIVE PHILOLOGY OF CASTILIAN, CATALAN, AND PORTUGUESE. Yr; 2 cr. Offered 1930–31 and in alternate years. 3:30–5:30 M. Mr. Solalinde.

PORTUGUESE

1. ELEMENTARY PORTUGUESE. Yr; 4 cr. For beginners.

SPEECH

ANDREW THOMAS WEAVER, Ph.D., *Professor of Speech, Chairman*
ROBERT WEST, Ph.D., *Professor of Speech Pathology*
GERTRUDE ELIZABETH JOHNSON, B.A., *Associate Professor of Speech*
HENRY LEE EWBANK, M.A., *Associate Professor of Speech*
GLADYS LOUISE BORCHERS, Ph.D., *Assistant Professor of Speech*
WILLIAM CHILTON TROUTMAN, M.A., *Assistant Professor of Speech*
GEORGE ADAMS KOPP, B.A., *Instructor in Speech*

The courses in this department have two main functions: 1. to educate students in the fundamentals of speech (private and public), covering both scientific and artistic aspects, organized knowledge, and personal proficiency; 2. to prepare especially qualified students to become teachers in one or more of the following sections of this field: (a) argumentation and debate, and the composition and delivery of public speeches; (b) reading, acting, and, dramatic production; (c) voice training and the correction of speech disorders; (d) the psychology and pedagogy of reading and speaking; (e) voice science and phonetics. The courses are so arranged as to make possible systematic and progressive study during the sophomore, junior, and senior years. Courses in speech are not open to freshmen.

Opportunity for practice outside of regular courses is to be found in university theatre productions and in intercollegiate oratorical contests and debates.

MAJOR. The major is open only to students who may be definitely accepted by the department. The department requirement is 124 credits with a minimum of 34 credits in speech. For teaching major and minor see page 93.

THE UNIVERSITY THEATRE. This well-equipped little theatre provides unusual facilities for training students in acting and in producing plays. A number of plays are staged each semester under the direction of Mr. Troutman and staff.

SPEECH CLINIC. This clinic, which is free to all students, is open for fifteen to eighteen hours throughout the academic year; it offers expert guidance and assistance in the diagnosis and treatment of all kinds of voice and speech disorders. Mr. West and staff.

FORENSIC ACTIVITIES. The department sponsors and supervises an extensive program of intra-mural and intercollegiate debates and other speech contests which provide special training for students with unusual talent.

1. FUNDAMENTALS OF SPEECH. I, II; 3 cr. The lecture hour is designed to give the student an understanding of the speech function. The recitation hours are devoted to practice before the class, the analysis of individual difficulties, and suggestions for improvement. Students who expect to take further work in speech should elect this course in their sophomore year if possible. Open to all students except freshmen. Lab. fee $1.00. Lect. 11 Th; recitation sections at 8 TT, 9 TT, 10 TT, 1:30 TT, 1:30 MW, 2:30 MW. Mr. Ewbank and staff.

2. FUNDAMENTALS OF SPEECH. I, II; 3 cr. Continuation of Speech 1, which is prerequisite. Lect. 11 Tu; recitation sections at 10 MW, 10 TT. Mr. Ewbank, Mr. Weaver.

3. ARGUMENTATION AND DEBATE. I, II; 3 cr. A consideration of the problems involved in gathering material and constructing the type of composition which aims to persuade or to convince. The preparation and delivery of various types of persuasive speeches. Prerequisite: Speech 1, 7, or 8. I, 10 MWF; II, 9 MWF. Mr. Ewbank.

4. ARGUMENTATION AND DEBATE. II; 3 cr. Continuation of Speech 3, which is prerequisite. 10 MWF. Mr. Ewbank.

6. VOICE TRAINING. I, II; 2 cr. Specific training and practice designed to improve vocal conditions for all speech purposes. Exercises for flexibility, range, relief from tension, articulation, and enunciation. Text and outside readings. Prerequisite: Speech 1, which may be taken concurrently. 3:30–5:30 M, and quiz. Miss Johnson.

7. PUBLIC SPEAKING. I, II; 2 cr. For those who wish to acquire some skill in public address. Maximum of platform work. Special emphasis upon purpose, audience, occasion, and types of speeches. Open to all students except freshmen. Six sections: 8 MW, 10 MW, 11 MW, 9 TT, 11 TT, 1:30 TT. Mr. Kopp and staff.

8. EXTEMPORE SPEAKING. I, II; 2 cr. Open only to freshmen electrical engineers, of whom it is required. Three sections: 9 MW, 9 TT, 10 TT. Mr. Kopp.

16. ELEMENTS OF DRAMATIC EXPRESSION AND ACTING. I; 2 cr. Prerequisites: Speech 1 and 6; the latter may be taken concurrently. 1:30 MW, 2:30 TT. Mr. Troutman.

18. ORAL INTERPRETATION OF LITERATURE. I, II; 2 cr. Prerequisite: Speech 6. 11, 2:30 MW. Miss Johnson.

19. ELEMENTARY DRAMATIC PRODUCTION. II; 2 cr. Students in this course are urged to take Speech 22. Prerequisite: Speech 16. 2:30 TT, 3:30 TT. Mr. Troutman.

22. DRAMATIC READING AND PLATFORM ART. Yr; 2 cr. Prerequisite: Speech 16 and 18; the former may be taken concurrently. 9, 10 TT. Miss Johnson.

25. CORRECTION OF SPEECH DISORDERS. I, II; 3 cr. Prerequisites: Junior standing and Psychology 1. 1:30 MWF. Mr. West.

105. SPEECH COMPOSITION. I; 3 cr. Prerequisite: Speech 2 or 3. 9 MWF. Mr. Ewbank.

110. FORMS OF PUBLIC ADDRESS. II; 2 cr. Designed particularly for graduate students not majoring in speech. 9 TT. Mr. Ewbank.

119. ADVANCED DRAMATIC PRODUCTION. Yr; 2 cr. Students are urged to take Speech 123 in connection with this course. Prerequisite: Speech 19 or consent of instructor. 2:30 MW. Mr. Troutman.

121. VOICE SCIENCE. I; 3 cr. Prerequisites: Speech 2 and upper-group status. 2:30–4:30 M, 2:30 W. Mr. Weaver.

123. INTERPRETATION OF CLASSIC LITERATURE. I; 2 cr. Prerequisite: Speech 22 or consent of instructor. 1:30–3:30 Tu. Miss Johnson.

125. SPEECH PATHOLOGY. I; 3 cr. Prerequisites: Speech 1 and 25. 11 MWF. Mr. West.

126. ADVANCED CORRECTION OF SPEECH DISORDERS. II; 3 cr. Prerequisites: Speech 1 and 25. 11 MWF. Mr. West.

140. STAGE DESIGN (Applied Arts 140). II; 2 cr. Prerequisite: Speech 19 or graduate standing in speech. 3:30 TT. Mr. Varnum.

141. PSYCHOLOGY OF SPEECH. II; 3 cr. Prerequisites: Psychology 1, Speech 2, and upper-group status. 10 MWF. Mr. Weaver.

185. INTRODUCTION TO PHONETICS. I; 3 cr. Prerequisite: Speech 2 or 25, or consent of instructor. 10 MWF. Mr. Hanley.

186. ADVANCED PHONETICS. II; 3 cr. Mr. Hanley.

200. RESEARCH. Yr; *cr. Mr. Weaver.

201. INTRODUCTION TO GRADUATE WORK IN SPEECH. I; 1 cr. 10 Tu. Mr. Weaver.

205. SEMINARY, RHETORIC AND ORATORY. Yr; 2 cr. 7–9 Th. Miss Borchers.

219. SEMINARY, DRAMATIC PRODUCTION. I; 2 cr. 3:30–5:30 W. Mr. Troutman.

220. SEMINARY, THEORY OF ORAL INTERPRETATION. II; 2 cr. 1:30–3:30 Tu. Miss Johnson.

227. SEMINARY, SPEECH PATHOLOGY. Yr; 2 cr. 7:30–9:30 Tu. Mr. West.

TEACHERS' COURSE

396. SEMINARY, TEACHERS' PROBLEMS. I, II; 2–3 cr. Open only to majors and minors in speech and to graduate students. Required of all majors and minors who are candidates for the University Teachers' Certificate. 1:30–3:30 Th. Miss Borchers.

ZOOLOGY

MICHAEL FREDERICK GUYER, Ph.D., LL.D., *Professor of Zoology, Chairman*
FREDERICK LEE HISAW, Ph.D., *Professor of Zoology*
WILLIAM STANLEY MARSHALL, Ph.D., *Associate Professor of Zoology*
GEORGE WAGNER, M.A., *Associate Professor of Zoology*
CHESTER ALBERN HERRICK, Sc.D., *Assistant Professor of Zoology*
LOWELL EVAN NOLAND, Ph.D., *Assistant Professor of Zoology*
CHANCEY JUDAY, M.A., *Lecturer in Zoology*
HARRY LEONARD FEVOLD, Ph.D., *Research Associate in Zoology*
NELLIE MAE BILSTAD, M.A., *Instructor in Zoology*
ELBERT BREESE RUTH, M.A., *Instructor in Zoology*

MAJOR. A minimum of 30 credits, including ordinarily Botany 1, Zoology 1, 9, 102, 104, 105, and, in the case of upper-group students, a thesis. Changes in the list of recommended courses are occasionally made, particularly in the case of students preparing for medicine, nursing, or technical work. Such changes must be arranged in consultation with an adviser in the Zoology Department.

For the advanced courses, training in chemistry and ability to read French and German are desirable. Medical students will find courses 104–106, 111, 118–120, and 122 of special interest. Agricultural students will find courses 9, 104, 106, 110–113, and 119 of special interest.

1. ANIMAL BIOLOGY. I, II; 5 cr. Cell structure, cell division, adaptations of animals, physiology of organ systems, embryology, heredity, and evolution. Laboratory includes anatomy, physiology, embryology, and histology of the frog, and comparative studies on Protozoa, Hydra, and honey-bee. This course combined with Botany 1 or Zoology 2 satisfies the science requirement for the bachelor's degree. Lab. fee $7. Lecture: I, 9 MW (Mr. Wagner); II, 2:30 MW (Mr. Guyer); 6 hrs. lab., 2 hrs. quiz. Mr. Guyer, Mr. Wagner, and staff.

2. GENERAL ZOOLOGY. II; 5 cr. A survey of the main types of animals, their classification, structure, life history, and interest to man. Laboratory work on representative animals. Bird trips. Prerequisite: Zoology 1. Lab. fee $7. Lecture 9 MW; 6 hrs. lab., 2 hrs. quiz. Mr. Noland and staff.

3. ELEMENTARY ZOOLOGY. I; 3 cr. A brief introductory course in general biological principles, as illustrated by animals. Primarily for agricultural and physical education students. Laboratory study and dissection of representative animals. Lab. fee $5. Lecture 3:30 MW; 4 hrs. lab. Mr. Herrick and staff.

9. ELEMENTARY ENTOMOLOGY. II; 3 cr. Lectures on the life problems and adaptations of insects. Collecting and classifying of insects. Lab. fee $3. 10 MWF. Mr. Marshall.

100. THESIS. Yr; 2 cr. Original, individual work for zoology majors of upper-group status. Staff.

102. INVERTEBRATE ZOOLOGY. I; 5 cr. Structure, development, life history, and adaptations of invertebrate animals. Prerequisite: Zoology 1 or 3. Lab. fee $8. Lecture 1:30 MWF; 6 hrs. lab. Mr. Noland and staff.

103. THE VERTEBRATES. II; 2 cr. Lectures on classification, life history, and adaptations of vertebrate animals. Prerequisite: Zoology 1 or 3. 8 TT. Mr. Wagner.

104. COMPARATIVE ANATOMY OF VERTEBRATES. II; 5 cr. Lectures comparing structure and development of organ systems in the different vertebrate groups. Laboratory dissection of shark, mud-puppy, and cat, and comparative studies on other vertebrates. Prerequisite: Zoology 1 or 3. Lab. fee $8. Lecture 1:30 MWF; 6 hrs. lab. Mr. Wagner and staff.

105. VERTEBRATE EMBRYOLOGY. I; 3 cr. The early embryological development of vertebrates, including fertilization, cleavage, and origin of organ systems. Prerequisite: Zoology 1 or 3. Lab. fee $6. Lecture 1:30 TT; 4 hrs. lab. Mr. Hisaw and staff.

106. HEREDITY AND EUGENICS. I; 2 cr. The laws of heredity, their application to man, and the importance of the biological principles underlying race-betterment. Not open to freshmen. Lecture 3:30 TT; quiz. Mr. Guyer.

107. ORGANIC EVOLUTION. II; 2 cr. A critical consideration of organic evolution and how it has taken place. Not open to freshmen. 11 TT. Mr. Wagner.

108. PROTOZOOLOGY. II; 3 cr. Structure, physiology, life history, and adaptations of Protozoa, especially the non-parasitic ones. Prerequisite: Zoology 102 or consent of instructor. 1:30–4:30 TT. Mr. Noland.

109. ADVANCED VERTEBRATE EMBRYOLOGY. II; 2 cr. An advanced course dealing with the differentiation and development of tissues and organs; organogeny. Prerequisite: Zoology 105 or Anatomy 115. Lab. fee $6. 1:30–3:30 MW. Mr. Hisaw.

110. ENTOMOLOGY: ANATOMY AND EMBRYOLOGY. I; 3 cr. Anatomy, histology and development of insects. Prerequisite: An elementary course in entomology. Lab. fee $4. Mr. Marshall.

111. MICRO-TECHNIQUE. I; 3 cr. Training in the preparation of histological material, including practice in fixing, staining, mounting, maceration, and sectioning by the paraffin, celloidin, and freezing methods. Prerequisite: Zoology 1. Lab. fee $11.

112. INSECTS AND MAN. I; 2 cr. Lectures on harmful and beneficial insects in their relation to man and his domesticated animals and plants. 10 MW. Mr. Marshall.

113. COMPARATIVE ANIMAL HISTOLOGY. II; 3 cr. A comparative study of the tissues and organs of vertebrate and invertebrate animals. Prerequisite: Zoology 1 or 3. Lab. fee $6. 9–12 MW. Mr. Hisaw.

117. ANIMAL ECOLOGY. I; 2 cr. Responses and adaptations of animals to their environment; habitat types; organization of animal communities; population equilibrium; succession. Prerequisites: Zoology 1 and Chemistry 1a. Not offered in 1930–31. 9 TT. Mr. Noland.

118. MAMMALIAN ANATOMY. I; 3 cr. Lectures on mammalian anatomy; dissection of the cat in laboratory. Prerequisite: Zoology 1 or 3. Lab. fee $5. Lecture 8 Tu; lab. 9–12 TT. Mr. Wagner.

119. ANIMAL PARASITES. II; 3 cr. A survey of animal parasites, especially those of man and domesticated animals. For medical students and others interested in public health problems. Veterinary students may take laboratory alone for two credits. Prerequisite: Zoology 1 or 3. Lab. fee $5. Lecture 9 TT; 4 hrs. lab. Mr. Herrick and staff.

120. ADVANCED PARASITOLOGY. I; 2 cr. Advanced work on the identification and life histories of parasites, and the diagnosis of parasitic diseases. Prerequisite: Zoology 119. Lab. fee $5. 10–12 TT. Mr. Herrick.

122. ENDOCRINOLOGY. I; lect. 2 cr., lab. 2 cr. The general physiology of hormones and glands of internal secretion. Prerequisites: Zoology 105, Chemistry 1a. Only specially qualified graduate students will be admitted to laboratory. Lab. fee $5. 9 MW. Mr. Hisaw.

123. ADVANCED ENTOMOLOGY. I, II; *cr. For students who desire to pursue some special line of advanced entomological work. Prerequisite: Zoology 9. Mr. Marshall.

124. LIMNOLOGY. I; 2 cr. The geology, physics, chemistry, and biology of lakes, supplemented by training in limnological methods. Special attention is given to studies on Wisconsin lakes. Hours by arrangement. Mr. Juday.

125. PLANKTON ORGANISMS. II; 2 cr. Identification, distribution, variation, and economic importance of plankton forms. Field work consists of physical, chemical, and biological observations on lakes. Prerequisite: Zoology 102. Mr. Juday.

126. FIELD ZOOLOGY. I; 4 cr. Field trips; observing and collecting of local animals; identification and study of collected species in the laboratory. Prerequisite: Zoology 102 or consent of instructor. Lab. fee $3. 1:30–5:30 TT. Mr. Noland.

180. ADVANCED ZOOLOGICAL PROBLEMS. I, II; *cr. Individual work dealing with advanced phases of zoology not taken up in the regular courses. Prerequisite: Consent of instructor. Lab. fee $5. Staff.

200. RESEARCH. I, II; *cr. Lab. fee $5. Staff.

201. PROSEMINARY. Yr; 2 cr. Devoted to a discussion of the history of zoology. Distribution of graduate students between seminary and proseminary will be arranged in consultation with the instructors in charge. Specially qualified seniors are occasionally admitted to the proseminary. 3:30–5:30 F. Mr. Wagner.

214. ANATOMY AND PHYSIOLOGY OF THE CELL. I; 2 cr. The physics and chemistry of the cell, theory of staining, colloidal nature of protoplasm, semi-permeable membranes, effects of electrolytes, phenomena of metabolism, stimulation and transformation of energy. Prerequisites: Chemistry 1; Zoology 105 or 111. 11 TT. Mr. Guyer.

215. THE CELL IN DEVELOPMENT AND INHERITANCE. II; 2 cr. The chromosomal mechanism of the cell, and its relation to recent discoveries in experimental embryology and genetics. Prerequisite: Zoology 105. 11 TT. Mr. Guyer.

216. CYTOLOGY. Yr; 3 cr. An introduction to cytological technique and the general field of cellular biology. Prerequisite: Zoology 111. Hours by arrangement. Lab. fee $6. Mr. Guyer.

220. SEMINARY. Yr; 2 cr. Oral reports and discussions of advanced zoological subjects by members of the class. 3:30–5:30 F. Mr. Guyer.

THE COLLEGE OF ENGINEERING

F. E. TURNEAURE, DEAN

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. It is believed 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 principals 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 because of the great development of engineering in recent years, and the various phases which it is rapidly assuming. It is the endeavor of the college to combine a reasonable amount of specialization during the later years of its courses with a thorough grounding in the fundamentals during the earlier portions; and in carrying out this plan, the mathematical and theoretical courses constitute the main body of the program in the earlier years, and the later years are devoted more largely to the applications of these fundamentals to engineering problems.

Engineering students are urged to take their elective work in foreign language, advanced English, economics, public speaking, and other subjects of a general rather than a technical nature.

BUILDINGS

The main building of the College of Mechanics and Engineering contains the offices, recitation and drawing rooms, the engineering library, laboratories for work in steam and gas engineering, 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 hydraulics laboratory; and a sixth, the mining building, contains the ore dressing, assay, and metallurgical laboratories.

For chemistry the engineering students go to the Chemistry Building, for physics to Sterling Hall, for natural sciences to Science Hall and the Biology 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 university courses.

LIBRARIES

The Library of the College of Engineering is located in the Engineering Building and contains a large collection of technical books and periodicals. The current numbers of about 250 engineering periodicals are available in the reading room, and the bound volumes in the library include complete sets of all the important transactions and magazines. In addition to the college library there are the University Library, containing about 377,500 volumes and 64,000 pamphlets, the Library of the State Historical Society

(255,000 volumes and 275,000 pamphlets), the Library of the Wisconsin Academy of Sciences, Arts, and Letters (5,000 titles), and the Madison Free Library (79,000 volumes), to which students have free access.

ADMISSION

See section on Admission, page 33.

GENERAL REGULATIONS

PREPARATION IN ALGEBRA

One and one-half units of algebra are required for entrance. The first unit should include the following subjects: 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, the solution of quadratic equations.

The additional one-half unit should cover the following subjects: simultaneous quadratic equations; ratio, proportion and variation, elementary theory of exponents and radicals; the theory of quadratic equations; graphical representation of simple relation between two variables; binomial theorem for positive integral exponents; logarithms, including use of tables in simple numerical work; arithmetical and geometrical progressions.

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 time when they begin their course, and it is the purpose of the examination 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 take a review of algebra during the first semester. A special non-credit course is provided for this purpose.

FACULTY ADVISERS

At the beginning of each semester the students consult their faculty advisers as to the selection of subjects and the arrangement of programs. These advisers keep in touch with the students' work during the semester, receive reports from instructors as to progress, suggest methods for improvement in work, and report gross deficiencies to parents or to the Faculty.

Reports to parents or guardians on the scholastic standing of students are sent from the Registrar's office at the end of each semester.

GRADE-POINT SYSTEM

Under the grade-point system, points are awarded as follows: For grade A *(excellent)*, three points for each credit; for grade B *(good)*, two points; for grade C *(fair)*, one point; for grade D *(poor)*, no points. In the College of Engineering at least 146 grade-points and 146 credits, exclusive of freshman lecture, physical education, band, and military science, are required for graduation from any one of the four-year courses. No student will be recommended for the degree of Bachelor of Science who does not earn at least one grade-point per credit during the last two semesters of his attendance at the University.

HONORS

HONORS AND HIGH HONORS are awarded at the end of the sophomore year and at graduation to students who have spent not less than two full years in residence in this college. In computing credits and points for honors or high honors, the following subjects are not to be included: Subfreshman subjects, physical education, band, and basic courses in the Military Department; credits obtained by special examination, and credits secured at other institutions.

SOPHOMORE HONORS AND SOPHOMORE HIGH HONORS are awarded on the basis of a minimum of two years' work (not less than 60 credits, exclusive of Physical Education, Band, Military Drill, and Freshman Lectures) completed in the University. A student securing these two years 135 grade-points, plus 1½ grade-points for each credit above 60 which he has taken will be awarded *sophomore honors;* a student securing during these two years 165 grade-points plus 2 grade-points for each credit above 60 which he has taken, will be awarded *sophomore high honors.*

HONORS AND HIGH HONORS AT GRADUATION. Students having an average of 2¼ or more and less than 2¾ points per credit at graduation, will be awarded *honors.* Students having an average of 2¾ or more points per credit will be awarded *high honors.*

FEES AND EXPENSES

See section on Student Expense, page 15.

COURSES OF STUDY AND DEGREES

The College of Engineering offers five systematic four-year courses leading to the B.S. degree.

Civil Engineering.
Mechanical Engineering.
Electrical Engineering.
Chemical Engineering.
Mining Engineering.

Students who complete any of the above four-year courses are graduated with a 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.

SIX-YEAR COURSES LEADING TO THE B.A. AND B.S. DEGREES

Students who plan to graduate in Engineering, after taking a degree in the College of Letters and Science, should aim to make the following elections during the undergraduate course, in order that the engineering course may be completed in two additional years:

Mathematics 51, 52, 54, and 55; Physics 1 or 51 and 52; Chemistry 1 or 2; Mechanical Drawing 1, 2, and 3; Topographic Engineering 1, 2, 3, and 104, or Machine Design 1; Mechanics 1, 2; Electrical Engineering 1 and 51; Chemical Engineering 12, 18, and 111; Mining Engineering 101, 121, 122; and Geology 9.

It is well also to elect some or all of the freshman and sophomore shop work as extra studies.

GRADUATION IN A SECOND ENGINEERING COURSE

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.

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 topographic engineering field work and two weeks of railway engineering field work. These courses are given at the University Survey Camp at Devils Lake, Wisconsin. For mechanical engineers the requirement consists of not less than six weeks of approved summer work in industrial practice. Electrical engineers are required to take six weeks of approved summer work in an engineering or industrial organization. The chemical engineers are required to work five weeks, at the close of the junior year, in the university laboratory on chemical manufacture. 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 observations of conditions, methods, and operations in the district visited. In addition the long mine and metallurgical inspection trip is taken at the end of the junior year.

INSPECTION TRIPS

Inspection trips, for visiting industrial plants, are required of all engineering students during the junior and senior years. They are arranged and conducted by members of the faculty of the various departments and are designed to illustrate the work of the several courses.

The electrical and mechanical engineers take the trip in the autumn of the senior year. The trip takes a week's time and visits are made to plants in Milwaukee, Kenosha, Waukegan, Chicago, Buffington, and Gary.

The civil engineers visit the cities of Chicago and Milwaukee, the former in the spring of the junior year, the latter in the autumn of the senior year. Each of these trips takes three or four days.

The chemical engineers make a week's visit to Milwaukee, Chicago, and points near by in the spring of the junior year.

In the second semester of the freshman year, mining engineers take a trip to a mine in one of the nearer districts for the purpose of a complete mine survey, and while there make a complete inspection of the operation.

In metallurgy the students annually inspect the metallurgical works around Chicago, the trip lasting a week.

At the end of the junior year or, if advisable, just after their commencement, students in the courses in mining and metallurgy are required to take a long western inspection trip, visiting mining and metallurgical centers throughout the northwest. This trip lasts about six weeks.

THESES

In all courses, candidates for a second or a professional degree in engineering shall submit a thesis. The thesis requirements for the B.S. degree in the different courses in the College of Engineering are as follows:

In the civil engineering course a thesis is required. In the electrical, mechanical, and mining engineering courses a thesis is optional. In chemical engineering a course in special problems replaces the thesis requirement.

If a thesis is taken, the subject of the thesis shall be selected by the student after consultation between the student, his adviser, and the instructor who is to direct the work, and it shall be submitted to the Course Committee for approval. The total number of credit hours granted for this work shall not be less than three nor more than five, except by special action. The thesis is to be typewritten according to specifications furnished by the librarian of the University, and before it is accepted it must be approved by the instructor under whom the work has been done. It shall be deposited in the University Library by the second Friday before Commencement.

FRESHMAN LECTURES

The College has provided a course of lectures for freshmen. Attendance is required. In the lectures of this course it is the aim 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 non-resident 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 recently:

October 24, 1928.

Colonel R. I. Rees, Assistant Vice-President of American Telephone and Telegraph Company. "The Effect of College Experience on Your Future Career."

December 7, 1928.

Paul R. Croll, Director of Research of the Pittsburgh Plate Glass Company. "Paint as a Protective Coating for Engineering Structures."

April 29, 1929.

R. B. Harper, Chief Testing Engineer of the Peoples Gas Light Company. "Engineering Problems Arising in the Gas Industry."

May 14, 1929.

T. McLean Jasper, Director of Research of the A. O. Smith Corporation. "The Building of Vessels for High Pressure and High Temperature Service."

May 28, 1929.

Earl Hanson, traveler and explorer. "An Engineer's Experience in Iceland."

November 29, 1929.

Harold B. Smith, Professor of Electrical Engineering, Worcester Polytechnic Institute and President of the American Institute of Electrical Engineering. "The Quest of the Unknown."

GRADUATE WORK

The graduate work in the College of Engineering is a part of the Graduate School of the University, and is in charge of an administrative committee. Excellent opportunities are offered in the various departments for advanced theoretical work and for research. A special fund is available to be devoted exclusively to experimental work in the engineering laboratories.

For admission to the Graduate School an official transcript of the undergraduate record of the applicant should be forwarded to the Dean of the Graduate School, Bascom Hall, some weeks in advance of the opening of the session.

The degree of Master of Science (in civil engineering, mechanical engineering, etc.) is conferred upon graduates of approved institutions who have completed suitable undergraduate courses and 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.

The degrees of Civil Engineer, Mechanical Engineer, Electrical Engineer, Chemical Engineer, Engineer of Mines, and Metallurgical Engineer are conferred upon graduates of the College of Engineering of the University of Wisconsin who have spent five years in professional work, at least one of which must have been in a position of responsibility, and who present a satisfactory thesis.

The degree of Doctor of Philosophy is conferred upon graduates of the engineering courses under the same requirements as apply to graduates of other divisions of the University.

For statements of these requirements, see Graduate School.

CIVIL ENGINEERING COURSE

The course in civil engineering is designed to accomplish two things. First, it aims to give its graduates sufficient skill in certain technical operations to enable them to be of immediate value to an employer. The graduate enters civil engineering as a computer, draftsman, instrument man, timekeeper, or inspector, and he should be able to do creditable work in some one of these lines. Second, the course aims to train men to analyze engineering problems scientifically and reach sound conclusions about them.

The first two years of the course parallel closely the first two years of the other engineering courses in this college and are devoted chiefly to the study of English, mathematics, physics, and chemistry. During the last two years of the course the student is brought into contact with problems in various fields of civil engineering, partly to give him some familiarity with those fields, but chiefly to develop his powers of analysis and his judgment. Excellent laboratories enable the student to verify the theory he learns in the class room and to become familiar with research methods.

In addition to the technical objectives outlined above, the course is designed to give a training that will enable its graduates to hold their own in business and social intercourse and rise to the highest positions of responsibility in business and public affairs.

The course is administered with sufficient flexibility to permit a student to satisfy any reasonable desires in regard to the subjects to be studied. Those students who desire a greater amount of liberal education than can be crowded into a four-year curriculum can arrange special five- and six-year programs.

The four-year course leads to the degree of Bachelor of Science. The degrees of Master of Science and Doctor of Philosophy can be earned by graduate work. The degree of Civil Engineer is granted to graduates of the course who have had five years of successful practice in civil engineering and who comply with certain formalities.

EQUIPMENT

THE SURVEYING LABORATORY contains all instruments needed for extensive triangulation, topographic. hydrographic, and railroad surveys, including aneroid barometers, baseline apparatus, calculating machines, compasses, current meters, heliotropes, levels, invar tape, pantographs, plane tables, planimeters, precise-levels, sextants, sounding apparatus, theodolites, transits, and other smaller articles of surveying equipment.

THE BRIDGE ENGINEERING DEPARTMENT owns several autographic extensometers, a deflectometer for determining bridge stresses under moving train loads, and a Beggs Deformeter. 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 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 Riehlè torsion machine taking shafts 15 feet long and 3 inches in diameter; and 100,000-pound Johnson beam machine taking beams 22 feet long; seven Olsen and Riehlè universal machines from 10,000 to 200,000 pounds capacity; a Thurston torsion machine; a Russell impact machine; machines for fatigue tests of metals; Brinnell, Rockwell and scleroscope hardness testers; several small beam and wire machines; a 5-ton refrigerator for freezing tests; a Smith concrete mixer; a good equipment for tests of plain and reinforced concrete; and appliances for testing road-building material. There is a full supply of necessary apparatus for making standard tests of cement baths, self-recording thermometers, complete equipment of 1,000-pound Riehlè and Olsen testing machines, etc.

HYDRAULIC LABORATORY. A special building for this laboratory is located on the shore of Lake Mendota. It is equipped for theoretical, experimental, and research work. The facilities are especially good for studying those problems where large quantities of water are needed. A direct-connected 30-inch centrifugal pump furnishes up to 35,000 gallons of water a minute under a twelve-foot head. This water is delivered into a receiving chamber connected with various conduits and channels. Investigations can be conducted covering the flow in such channels and conduits together with the effects thereon of dams, weirs, racks, submerged orifices, and other features encountered in water power work.

A concrete reservoir, 50 ft. in diameter by 15 ft. deep, with a capacity of 220,000 gallons, is located on the bluffs at an elevation of about 60 ft. above the laboratory. It is connected to the laboratory by a 16-inch delivery pipe and 10-inch supply line. Its installation has made possible experiments which require a considerable flow of water under a very steady head, tests on turbines under heads up to 50 feet and the ready calibration of the largest weirs in the laboratory.

Very favorable facilities are afforded for the study of losses due to valves and other forms of restricted passages or to sudden changes in pipe

section, and for the study of flow in straight and curved pipes, and through weirs and orifices of practically any type.

A large assortment of accurate apparatus for the measurement of quantities, velocities, and pressures, both in open and closed channels, is available, including a variety of water meters, among them various Venturi meters.

The laboratory is equipped with an over-shot wheel and several types of impulse water-wheels including tangential and Girard turbines, reaction turbines with cylinder, register, and wicket gates. The pumping machinery includes both duplex and triplex reciprocating pumps, centrifugal pumps, vacuum pumps, jet pumps, and the hydraulic ram.

The electric power supply is favorable to accurate work on hydraulic machine testing. A 175 k. w. synchronous motor generator set supplies 220 volts, direct current, through four feeder lines into the laboratory. Unusually exact speed regulation can be obtained with noninterference of other testing apparatus.

The regular course of instruction includes a careful selection of typical determinations, and opportunities are offered for advanced and research work in practical hydraulics and hydraulic machinery as well as in the more advanced lines.

SANITARY LARORATORY. A well equipped sanitary laboratory is housed in the Hydraulic Laboratory. The apparatus available for the use of the students includes all modern equipment necessary in making accurate sewage and trade wastes analysis. The course of instruction includes work of an advanced nature, where the student can observe for himself the analyses studied in the theoretical courses, and at the same time carry on some research work to assist in the solution of many of the present problems in sewage and trade wastes disposal.

THE ROAD MATERIALS TESTING LABORATORY. In cooperation with the Wisconsin Highway Commission the University offers instruction in the testing of both bituminous and non-bituminous road materials. The equipment in the laboratories is sufficient to perform all of the standard tests.

OTHER LABORATORIES. The mechanical and electrical laboratories, the Machine Shop, as well as the laboratories of the science departments are open to engineering students and are described elsewhere in this bulletin.

CIVIL ENGINEERING COURSE

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, CIVIL ENGINEERING COURSE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Math. 51—Elementary analysis	5	Math. 52—Elementary analysis	5
Drawing 1—Elements of drawing	3	Drawing 2—Elements of drawing	3
Chem. 2a—General chemistry	4	Chem. 2b—General chemistry	4
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Top. Engr. 1—Elementary surveying	2	Top. Engr. 2—Elementary surveying	2
Physical activity requirement	0	Physical activity requirement	0
Freshman lectures	0	Freshman lectures	0
	17		17

SOPHOMORE YEAR

Math. 54—Differential and integral calculus	4	Math. 55—Calculus	4
Physics 51—General physics	5	Physics 52—General physics	5
Railway Engr. 2—Theory of location and construction	3	Mech. 1, 2—Statics, dynamics	5
Top. Engr. 3—Land surveying	3	Top. Engr. 104—Advanced surveying	3
Railway 1—Railway curves	2	Physical activity requirement	0
Physical activity requirement	0		
	17		17

Six weeks of approved summer experience in an engineering industrial organization, to be taken following either the sophomore or junior year.

JUNIOR YEAR

Mech. 5—Mechanics of materials	5	Mech. 52—Materials of construction	2
Mech. 51—Materials of construction	2	Hydr. 110—Hydrology	2
Hydr. 2—Elementary hydraulics	4	Railway Engr. 110—Masonry construction	2
Drawing 3—Descriptive geometry	3	Struc. Engr. 2—Stresses in simple structures	4
Geol. 9—Engineering geology	3	Steam and Gas 7—Engines and boilers	2
Hydr. 122—Sewerage	2	Econ. 1a—General economics	4
Engr. Engl. 1a—Papers and discussions	1	Engr. Engl. 1b—Papers and discussions	1
		Highway Engr. 102—Highway engineering	3
	20		20

SENIOR YEAR

Struct. Engr. 3—Bridge design	3	Engr. Contr. 101—Contracts and specifications	2
Struct. Engr. 105—Reinforced concrete	3	Struct. Engr. 4—Bridge design	2
Steam and Gas 127—Laboratory	2	Elect. Engr. 10, 60—Direct current machinery	4
Hydr. 121—Water supply	3	Railway Engr. 111—Substructures	1
Engr. Engl. 2a—Papers and discussions	1	Engr. Engl. 2b—Papers and discussions	1
Thesis	1	Thesis	2-4
Electives	6	Electives	7-5
	19		19

At the beginning of the junior year, the students must elect to pursue one of the following groups of studies:

STRUCTURAL OPTION

Struct. Engr. 107—Higher structures	2	Struct. Engr. 108—Secondary stresses	2
Struct. Engr. 111—Reinforced concrete design	2	or Mech. 106—Advanced mechanics	(2)

Additional electives: Structural Engineering 106, 109, 112; Mechanics 108.

RAILWAY OPTION

Ten credits to be elected from the following group:

Railway Engr. 105—Engineering economics	2	Econ. 135—Railway transportation	3
Railway Engr. 107—Advanced design	2	Econ. 136—Transportation problems	3
Min. Engr. 101—Excavation and tunneling	3	Elec. Engr. 129—Electric railways	3
		Railway Engr. 112—Estimates	2

HYDRAULIC OPTION

Hydr 102—Testing of hydraulic machines	2	Hydr. 105—Hydraulic machinery	2
Hydr. 104—Water power engineering	3	Hydr. 112—Drainage and irrigation	2
Hydr. 113—Hydraulic design	2	Hydr. 114—Hydraulic design	2

MUNICIPAL OPTION

City Plan. 101—City planning and zoning	2	Hydr. 112—Drainage and irrigation	2
Hydr. 124—Water and sewage analysis	2	Hydr. 123—Sewage and garbage disposal	1
		City Plan. 101—City planning and zoning (repeated)	2

HIGHWAY OPTION

Highway Engr. 103—Adv. highway design	3	Highway Engr. 104—Highway materials testing	3
Highway Engr. 105—Highway maintenance	2	Struct. Engr. 112—Highway bridges	2
City Plan. 101—City planning and zoning	2	City Plan. 101—City planning (repeated)	2

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

The four-year course offered in mechanical engineering leads to the degree of Bachelor of Science, Mechanical Engineering Course, and is open to graduates of accredited high schools, and students entering by examination or with proper credits from other schools or colleges.

The first two years of the course, and a portion of the junior year, are devoted principally to the fundamental studies of mathematics, chemistry, mechanical drawing, machine design, physics, mechanics, and shop work, while during the junior and senior years the professional subjects are introduced. The treatment of these professional subjects is along as broad lines as possible, in order to make them of the greatest educational as well as technical value to the students.

As it is difficult for most students to determine in advance their professional career it is desirable that their college training shall follow a general direction and be free from excessive specialization. To this end the mechanical course includes studies dealing with the elements of direct and alternating currents and hydraulics, in addition to the subjects of steam engines and boilers, heating and ventilating, machine design and shop practice.

In the senior year courses are offered which are designed to give the commercial point of view in many of the problems of engineering. With these subjects the mental attitude of the student is brought into conformity with that of actual practice as far as possible.

Elective credits in the junior and senior years allow students in mechanical engineering to take fundamental subjects in other engineering courses, such as civil, chemical, or mining engineering in addition to correlated work in economics and business administration as well as general subjects.

EQUIPMENT

THE ENGINEERING SHOPS LABORATORIES. These afford excellent facilities for mechanical practice. The six laboratories are for machine, forge, pattern, foundry, carpentry, and welding practice.

The Machine Laboratory has a well balanced and modern equipment for handling classes in elementary, advanced, and general shop work. Production methods are emphasized. Johansson blocks and other tools afford practice in modern measuring devices. An up-to-date tool room insures an excellent condition of machines.

The Forge Laboratory is equipped with the latest design down-draft forges and direct-connected blast-exhaust unit. A steam hammer, shears, grindstones, and hand tools form an adequate equipment.

The Pattern Laboratory has 24 wood lathes and standard individual work benches with the necessary tools for general pattern making. Two band saws, two jointers, a circular saw, a surfacer, and three combination sanders form part of the machine equipment.

The Foundry is equipped with a 36-inch cupola, brass furnace, core oven, molding machines, 20 individual molding benches with sets of tools, air rammers, sand blast equipment, and motor driven riddle.

The Carpentry Laboratory is well equipped for the needs of agricultural carpentry. Ample tools for this phase of work are provided.

In the Welding Laboratory ample provision is made for practice in electric arc and acetylene welding by an up-to-date equipment representative of the best manufacturers.

EXPERIMENTAL ENGINEERING. The work in this subject is planned so that it illustrates the principles taught in the classroom by tests on the various types of heat engines. The student is first taught how to calibrate the various instruments used in such tests, to set valves and then to make efficiency tests of engines, boilers, gas producers, and other machinery. As a preliminary to the testing of boilers and gas producers, instruction is given in the use of the various steam, coal, and gas calorimeters, flue gas apparatus and apparatus for the analysis of fuel and gases. Instruction is also given in the methods of measuring flow of air and of testing air compressors, blowers, and refrigerating machines. In the junior year the students study various methods of measuring power and determining mechanical efficiency, testing of oils, determination of friction with regard to lubricants and bearing materials. The courses are laid out with the idea of giving the necessary information and practice in the testing of various machines, and of encouraging accuracy in work and originality in investigation. For thesis work the laboratories offer unusual opportunities in the way of special apparatus.

STEAM AND GAS ENGINEERING LABORATORY. The main laboratory is a one-story extension at the rear of the Engineering Building. The machinery floor in this laboratory is on the same level as the basement of the main building. A gallery entered from the first floor of the main building is partitioned off to form laboratories for calibration work, special investigation, and oil testing.

All of the equipment of the laboratory is specially arranged for experimental work, and for demonstration of the principles discussed in the class room. A means of supplying load for each of the engines is provided. On many of the engines a simple friction brake is used, while for high-speed units either electric generators or water dynamometers are used. The steam driven units are supplied with condensers in order that the exhaust steam may be weighed.

The more important *steam driven units* are a 25-kilowatt Curtis Turbine, a 25-horsepower simple Corliss Steam Engine, and a complete refrigeration plant. The main unit of the refrigeration plant is a 15-ton direct-connected Corliss engine-driven ammonia-compressor. Also, this plant includes a double-pipe ammonia condenser and a double-pipe brine cooler besides some automatic control equipment. A 50-horsepower cross-compound poppet-valve steam engine is fitted with steam jacketed receiver and cylinders. Tests can be made with either superheated or saturated steam, condensing or non-condensing, with or without steam in the steam jackets, and with or without reheating between cylinders. This furnishes a means for studying the effect of such conditions upon steam consumption. Moreover, the speed of this unit may be varied from 90 to 125 revolutions per minute, while the cut-off has a range of automatic variations between 0 and 95 per cent of the stroke.

A 50-horsepower compound steam engine is directly connected to a two-stage air compressor. The engine is equipped with a Meyer valve gear and operates condensing. The base of the unit contains an intercooler for the air and a receiver for the steam end. An orifice is used for measuring the quantity of air compressed. A locomotive-type air compressor is also arranged for test purposes.

A separately fired steam superheater is arranged to supply superheated steam to the main steam loop and hence to any of the steam units. A small vertical boiler and engine is used to familiarize the students with the essential parts of a simple steam power plant and the problems connected with

its efficient operation. Also, such tests prepare the student for the more complicated plant tests.

Such stations as the University Central Heating Plant, the Capitol Heating Plant, the central station of the Madison Gas and Electric Company, and the City Water Works Plant are used in addition to actual laboratory equipment. Tests are run each year by the students at some of the above mentioned plants. The boiler house of the University which furnishes steam for all the buildings of the institution, both for heating and for power purposes, has a normal capacity of 5196 boiler H. P. It is equipped with special testing apparatus so that experimental work may be carried on relating to the economy of boilers under various service conditions.

The *internal combustion* engines range in size up to a 40-horsepower full Diesel type engine. This is a vertical single cylinder unit, and is a modern piece of equipment. It is a two-stroke cycle engine of the solid injection type, and it will operate on a wide range of fuel oils. There is a 25-horsepower semi-Diesel engine besides some smaller units which will operate on crude oil or kerosene. A 20-horsepower engine which was built especially for test purposes can be fitted with a variety of heads, vaporizers, valves, governors, and auxiliary equipment. This permits testing the engine with city gas, producer gas, gasoline, kerosene, alcohol or other liquid fuels as desired.

There is a suction type producer gas plant installed in the laboratory. This consists of a 21-horsepower engine and anthracite coal producer with an air heater and a gas scrubber.

Special *automotive testing apparatus* is available for testing marine, aeroplane, automobile or truck motors. A 150-horsepower electric dynamometer furnishes a most up-to-date method for testing high-speed engines up to 3,500 revolutions per minute. By a combination of this machine and a calibrated fan dynamometer 250 horsepower can be absorbed. There are many automatic devices used in connection with the dynamometer unit in order to get the greatest possible accuracy of test. Several makes of automobile and aeroplane motors are available for tests. Recently, a standard S. A. E. variable compression engine has been installed for the study of the detonating qualities of liquid fuels.

A hot air engine is operated on city gas to pump water and demonstrate the possibility of an external combustion engine.

Heating and *ventilating* equipment is available for most any type of experiment. An air conditioner in the laboratory is capable of washing, cooling, humidifying, or dehumidifying air. A modern type of dust determinator is used in connection with air testing. An extensive arrangement is installed for determining the infiltration of air around doors and windows under various conditions of wind pressure. Types of windows, metal weather stripping, and many types of wall construction are problems under investigation. A rotary vacuum and condensate pump is arranged for test. This type of pump is used on vacuum steam-heating systems for maintaining low pressure. A boiler for hot water heating system is arranged for testing either with oil burners or any kind of coal or coke.

Air measurement in the laboratory can be accomplished by a variety of methods. A series of meters have been arranged to facilitate the comparison and calibration of air or gas meters. A Thomas Electric Gas Meter, a Pitot tube, an anemometer, and orifice are some of the more important metering devices.

Steam flow measurement in the laboratory has been worked out with the same ideas in mind as for air measurement. Steam flows through an electric flow meter, a balance type of flow meter, a Pitot tube, a Venturi meter, and several orifices and nozzles. By condensing and weighing the steam, a calibration may be obtained for each method of measurement.

In the *calibration laboratory*, there are dead weight gage testers, vacuum pumps with mercury columns. Also there is a fluid pressure scale with which gauges and indicators can be tested to pressures of 25,000 pounds per square inch. Steam drums are used for calibrating inside spring indicators under working conditions.

In the *oil testing* laboratory there are viscosimeters for determining viscosity of oils at different temperatures, also equipment for determining the flash, fire, and pour points. Many oils are tested both in the oil test laboratory and in actual service in connection with engine tests.

There is also an abundance of equipment for making complete tests for determining the economy and capacity of boilers, engines, and gas machinery. This equipment comprises weighing scales, measuring tanks, pyrometers, thermometers, calorimeters, indicators, revolution counters, tachometers, stop watches, planimeters, hydrometers, psychrometers, recording gauges, reducing motions, gas meters, water meters, manometers, draft, gauges, and gas analysis apparatus. The laboratory also contains a number of machines for special test purposes, and several steam injectors and nozzles especially arranged so that test data may easily be obtained.

Gas Analysis and Fuel Laboratories. The work in gas and fuel analysis is given under the direction of the Chemical Engineering Department, and in their laboratories. The equipment there available provides excellent opportunities for study of the methods of gas and fuel analysis and the determination of heating values of fuels. Also, some time is given to the study of boiler feed-water treatment.

Transmission Laboratory. The equipment of this laboratory includes a belt testing machine, several forms of transmission dynamometers, and apparatus for testing hoists and screw jacks. Also, there are means for determining the relative efficiency of various forms of shaft bearings.

Machine Design. This department has a large collection of modern working drawings furnished by representative builders in this country and abroad, which are kept on file for reference by students.

A collection of kinematic models built by Schroeder and by the university shops is used in the study of mechanism. In addition to these models there are sectional machines consisting of pumps, valves, etc., used to illustrate the design of machine parts. For this purpose the regular shop and laboratory equipment is also regularly employed, the students using this machinery for mechanical drawing models and for comparison in design.

The Forest Products Laboratory is an institution of practical research conducted by the Forest Service, United States Department of Agriculture, in cooperation with the University of Wisconsin, for the purpose of studying problems bearing on the most efficient use of the products of the forest and for disseminating such knowledge. The staff of the laboratory cooperates with that of the University of Wisconsin in the courses of lectures and researches outlined below. The laboratory offers unusual facilities for research in the field of forest products and possesses very complete scientific and technical equipment for this purpose. In its investigations it

approximates closely commercial conditions and cooperates extensively with the various manufacturing establishments in testing out its researches on a commercial basis. The technical investigations of the laboratory are as follows: (1) Mechanical Properties of Wood. Investigations on strength, stiffness, hardness, and other mechanical properties of commercial woods; effect of treatments on strength; tests on fabricated materials and manufactured articles; the development of grading rules for structural timbers; and aircraft studies. (2) Shipping Containers. Study of containers and methods of packing; details of balanced construction; efficiency of metal straps and wires; designs and specifications. (3) Seasoning. Determination of best methods of air drying and kiln drying; design and operation of dry kilns; studies of commercial kilns; physical properties of wood. (4) Studies of fundamental phenomena especially the movement of fluids through wood and their static relations; modification of properties and reduction of shrinkage. (5) Plywood, Glues, and Laminated Stock. Study of plywood manufacturing problems; strength and design of plywood; development and improvement of glues; analysis of glue compounds; study of new uses for laminated construction in commercial work. (6) Wood Technology. Identification of wood, the effect of growth conditions on the structure of wood; and the relation of the structure of wood to its properties. (7) By-products and Chemical Studies. Researches on the methods of production and utilization of by-products such as alcohol, turpentine, rosin, acetate, etc., obtained from various forms of wood and wood waste. (8) Pulp and Paper. The suitability of woods for pulp, paper, and fibre specialties; studies in the chemistry and engineering of pulping and paper making processes; chemical and physical studies of pulps. (9) Researches on fungi which attack structural timbers with investigations aimed at practical means of prevention; the efficiency of various wood preserving processes and preservatives. (10) Technical Studies of Wood-using Industries. Study of the economic utilization of wood with a view to eliminating waste; lumber grades and specifications; methods of measuring, manufacturing and marketing logs, lumber, small dimension stock; development of uses of wood.

OTHER LABORATORIES. The Hydraulic Testing laboratories are described on page 243, the Electrical laboratories on page 255, and the Chemical Engineering laboratories on page 260. Mechanical engineering students are required to do work in each of these laboratories.

MECHANICAL ENGINEERING COURSE

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, MECHANICAL ENGINEERING COURSE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Math. 51—Elementary analysis	5	Math. 52—Elementary analysis	5
Drawing 1—Elements of drawing	3	Drawing 2—Elements of drawing	3
Chem. 2a—General chemistry	4	Chem. 2b—General chemistry	4
Engl 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Shop 1, 2—Elementary shopwork	2	Shop 4, 5—Lathe work, planing, milling	2
Physical activity requirement	0	Physical activity requirement	0
Freshman lectures	0	Freshman lectures	0
	17		17

SOPHOMORE YEAR

Math. 54—Differential and integral calculus	4	Math. 55—Calculus	4
Physics 51—General physics	5	Physics 52—General physics	5
Mach. Design 1—Mechanism	4	Drawing 3—Descriptive geometry	3
Shop 6, 13—Tool making and foundry practice	3	Mach. Design—Design practice	1
Physical activity requirement	0	Mech. 1, 2—Statics, dynamics	5
		Physical activity requirement	0
	16		18

Summer work, six weeks of industrial practice (see Shop 10).

JUNIOR YEAR

Mech 3—Mechanics of materials	5	Steam and Gas 22—Elementary testing	2
Mech. 53—Materials of construction	2	Steam and Gas 2—Thermodynamics	4
Steam and Gas 1—Thermodynamics	4	Hydr. 1—Elementary hydraulics	3
Mach. Design 3—Machine elements	4	Mach. Design 4—Advanced design	4
Shop 7—General shop work	2	Mach. Design 12—Machine testing	2
Elective†	3	Elect. Engr. 6—Electrical machinery	3
		Elect. Engr. 56—Direct current laboratory	2
	20		20

SENIOR YEAR

Steam and Gas 105—Calculations	2	Engr. Admin. 106—Power plant economics and design	3
Steam and Gas 23—Advanced testing	2	Engr. Admin. 102—Production and operation	3
Engr. Admin. 101—Construction	3	Steam and Gas 124—Advanced commercial testing	1
Elect. Engr. 7—Electrical machinery	3	Shop 9—Advanced pattern making	1
Elect. Engr. 57—Alternating current laboratory	2	Chem. Engr. 8—Metallography	2
Engr. Admin. 105—Manufacturing and production methods	2	Thesis and electives	9
Electives	5		
	19		19

Electives in the general course outlined above must include Hyd. Engr. 104, Water power, 3 cr., first semester; or Hyd. Engr. 105, Hydraulic ma-

chinery, 2 cr., second semester. Also two credits of electives must be selected from the list of advanced courses in Steam and Gas.

† It is recommended that the remaining electives be on subjects not closely related to technical engineering work. However, should the student desire to select his electives in the Engineering College, the following are suggested for preliminary consideration:

	Credits per Sem. 1st.	2nd.
Agricultural Engineering	2–3	2–3
City Plan. 101—City planning and zoning (repeated)	2	2
Engr. Admin. 103—Corporation reports	2	
Engr. Admin. 104—Thesis or advanced individual studies	1–5	1–5
Engineering English	1	1
Mining 124—Metallurgy of iron and steel (repeated)	3	3
S and G 106—Steam turbines		2
S and G 108—Heating and ventilating (repeated)	3	3
S and G 109—Internal combustion engines	2	
S and G 110—Advanced heating and ventilating problems	2	2
S and G 112—Refrigeration		2
S and G 128—Heating and ventilating laboratory		2
S and G 130—Internal combustion laboratory		2
S and G 151, 152—Special problems	3	3
S and G 200—Graduate research	3–5	3–5
Struct. Engr. 10—Structural design (repeated)	2	2
Top. Engr. 108—Short course in surveying (repeated)	3	3

ENGINEERING DESIGN GROUP

	Credits per Sem. 1st.	2nd.
Mach. Des. 101—Kinematics and dynamics of machinery		2–3
Mech. 106—Advonced strength of materials		3
Mech. 107—Advanced dynamics	3	
Mech. 108—Materials of construction		2
Mech. 109—Graphs		2
S and G 114—Theory of heat transfer		2
Math. 110—Higher mathematics for engineers	3	3
Math. 113—Theoretical mechanics	3	3
Math. 250—Theory of elasticity	3	3

Students who wish to select most of their electives from the Engineering Design group should take Math. 110 in the junior year. Hyd. Engr. 1 may be deferred until the senior year.

OPTION IN AERONAUTICAL ENGINEERING

	Credits per Sem. 1st.	2nd.
Aeronautics 101—Aerodynamics	3	
Aeronautics 102—Airplane stress analysis		3
Aeronautics 103—Design of airplane parts	2	
Aeronautics 104—Propellor theory		2
Aeronautics 108—Welding	2	
Aeronautics 109—Airplane engines	2	
Aeronautics 110—Aeronautical meteorology		1
Aeronautics 130—Airplane engine testing		2

Students who wish to complete the option in Aeronautical Engineering in the senior year must take Aeron. 101 in the first semester of the junior year. Those who take all of the courses listed in this option may substitute non-professional electives for Shop 7, M.D. 12, S and G 105, S and G 124, and E.A. 106. Hyd. Engr. 1 may be deferred until the senior year.

ELECTRICAL ENGINEERING COURSE

The four-year course in electrical engineering leads to the degree of Bachelor of Science, Electrical Engineering Course, and is open to graduates of accredited high schools and to students entering by examination or with proper credits from other schools and colleges.

The aim of the course is to produce industrious, clear-thinking young men having a working acquaintance with the scientific and economic principles which underlie all engineering practice and a vision of the pleasures and possibilities of continuous growth in engineering service. While engineering practice is kept in view throughout the instruction in the course, this is not for the purpose of conveying a knowledge of the practical details in any one of the many branches of the electrical engineering field. Rather it is for the purpose of imparting an appreciation of engineering methods of procedure.

The successful engineer who develops executive and administrative ability in his technical work eventually assumes an administrative or executive position in which he deals with problems which involve, beside purely technical features, the economic and sociological questions of a civilization which is based so largely upon engineering achievements. To the solution of these problems should be brought the judgment of years of experience founded upon the broadest possible university training. With this in mind, the course in Electrical Engineering has been so framed that a good proportion of the studies are non-professional in nature, i. e., studies not directly connected with the more technical phases of engineering. These are pursued for the most part in the College of Letters and Science. Because of the wide latitude of choice permitted, students are urged to give careful consideration, early in their course, to the planning of a worthwhile group of these non-professional studies the election of which usually begins in the second semester of the sophomore year.

It is further recommended that students who aim to lay the broadest foundation for constructive leadership devote more than four years to their college work, combining with their engineering studies a liberal selection of studies outside the College of Engineering.

All classroom work in electrical theory is paralleled by work in the well-equipped laboratories in which the students, working in pairs, acquire a working knowledge of electrical instruments and machines by carrying out tests which illustrate the engineering applications of the principles studied in the class room. In all of the electrical work, special effort is directed toward training the initiative and the independent powers of thought of the students, so that they may truly make themselves masters of the principles studied, and may thereby lay the foundation for creative professional work. To develop initiative, students are urged, in the senior year, to elect and submit reports on one or more engineering problems requiring analytical investigative work. The studies may be of an economical, historical, statistical, theoretical or experimental type. Studies of unusual merit are filed as theses in the University Library.

According to their interests and aptitudes, the men who graduate from this course engage in the following types of electrical engineering work: research, design, maintenance, operating, construction, and sales engineering. The majority enter the employment of corporations owning electric lighting, electric railway, electric power transmission, or telephone plants (with the expectation of ultimately becoming superintendents, chief engineers, managers, or owners), the employment of contractors for the construction of electrical plants, or the employment of manufacturers of electrical and allied machinery. A considerable number of the graduates are now found in administrative and teaching positions in the engineering colleges.

GRADUATE STUDENTS. Graduates are offered instruction in advanced theory, design, and experimental investigation relating to the several branches of applied electricity. Students who are candidates for the doctor's or master's degree are offered all the reasonable facilities for carrying on either their major or minor elections in the Electrical Engineering Department. The regulations relating to these degrees are enumerated on another page of this bulletin.

The organization of the department is arranged to afford adequate supervision to advanced students who are carrying on the investigation of original problems, and excellent facilities are offered to such students in the way of laboratory rooms and of special apparatus constructed by the college mechanicians.

EQUIPMENT

The laboratory equipment may be classified under the headings: Dynamo, Photometric, Electric Standards, High Tension, Communications and Circuits, and General Research Equipment.

THE DYNAMO LABORATORY. The transforming and converting machinery which furnishes the electrical power for all of the electrical laboratories is located in the dynamo laboratory. The electrical power for these laboratories is transmitted from the electrical substation of the University to the necessary transforming and motor-generator equipment for furnishing power at the following voltages and frequencies: Three-phase power at 110 volts and 25 and 60 cycles; and direct current power at 110, 220 and 500 volts.

The dynamo collection consists of a large number of continuous current and alternating current dynamos and motors of different types and sizes. Shunt, series, and compound, continuous current generators and motors; single-, two- and three-phase alternating current generators; single-phase and three-phase induction motors; sychronous motors and converters; single-phase commutator type motors and transformers are supplied in various sizes.

The equipment comprises more than fifty dynamos for exclusive laboratory use for the purpose of instruction and experiment. All apparatus necessary for the accurate testing of dynamos is available. Large lamp banks, water rheostats, and transformers for loading generators; special prony brakes and electric dynamometers, for loading motors; and an unusually complete assortment of the well known types of ammeters, voltmeters and wattmeters for making accurate electrical measurements are supplied.

STANDARDS LABORATORY. Instructional work in courses dealing with electrical instruments and meters and the official standardizing work for the Railroad Commission of Wisconsin are carried on in this laboratory. The laboratory equipment includes a complete duplicate set of standard resistance units and a group of standard cells which are periodically used in connection with the Wolff potentiometer to calibrate the secondary or working standard instruments. The working standard instruments include numerous Weston, Westinghouse, General Electric and Siemens-Halske precision and portable ammeters, voltmeters, wattmeters, and a Brooks deflection potentiometer.

Specialized equipment, such as Wheatstone bridges, a Kelvin double bridge, and a Per Cent bridge accurate to within 0.01%, are available for special and precise resistance measurements. For unusual measurements with instruments, power factor meters, frequency meters, low range ammeters, voltmeters, wattmeters and low power factor wattmeters are available. Variable speed motor-generator sets operated in conjunction with a 120 volt storage battery furnish power at any frequency between 10 and 150 cycles. A motor-generator set and a Seth-Thomas clock and relay timing system are part of the permanently installed equipment for accurately testing portable standard watthour meters.

Equipment suitable for field tests includes stop watches, wattmeters, ammeters, voltmeters, power factor meters, cycle counter, synchronous timer, frequency meters, portable standard a. c. and d. c. watthour meters, phase shifting transformer and voltage regulator, Silsbee current transformer testing set, standard current and voltage transformers, and a Westinghouse three element oscillograph.

PHOTOMETRIC LABORATORIES. These laboratories comprise a number of rooms especially arranged for the study and testing of lamps and light sources of various kinds. The equipment includes a complete set of photometric standard lamps, a 300-cm. photometer bar, a 500-cm. photometer bar equipped with a single mirror selector, a 72″ Ulbricht spherical photometer, a Sharp-Millar portable photometer, a Lummer-Brodhun spectro-photometer and numerous auxiliary equipment, such as sight boxes of the Bunsen, Lummer-Brodhun, and flicker types, rotating sectored discs and absorption screens.

HIGH TENSION LABORATORY. The high tension equipment comprises a 50,000-volt, 20-kw. and a 300,000-volt transformer, and an induction regulator permitting the voltage to be gradually varied from zero to 300,000 volts, needle and sphere gaps for measuring high voltages, facilities for testing insulators under wet weather conditions, and general facilities such as vibrator type and cathode ray oscillographs, for routine tests or special researches upon insulating materials.

COMMUNICATIONS AND CIRCUITS LABORATORY. Under telephone equipment may be listed: demonstration panels and sets containing all the elements from one subscriber's telephone set through two exchanges to a second subscriber's station, an artificial telephone line having a length of several wave lengths, duplex telegraph sets, a repeating station, loading coils and wave models which show the distribution of current and voltage along long lines, alternating current bridges and voltmeter-ammeter amplifiers.

The radio equipment comprises a large antenna and the necessary facilities for setting up and carrying on studies relating to sending and receiving sets such as a stock of receiving and power tubes, inductances, con-

densers, high voltage generators, wave meters, oscillators, and many signal corps sets supplied by the government for use in the signal corps courses. The University broadcasting station, which is under the supervision of the department, presents an opportunity for the study of some of the problems of radio transmission and reception.

For the study of transient phenomena, synchronous switching devices have been constructed which permit of viewing transient wave forms on the oscillograph screen.

For general research work, there are available four modern vibrator type oscillographs, two cathode ray oscillographs, electrical measuring instruments of all types, various types of vacuum pumps, chemical apparatus, etc.

An excellent mechanician's department is maintained by the College of Engineering to construct and repair apparatus for the research and instructional work of the college.

These facilities, together with a liberal research fund, make important and effective research work possible.

ELECTRICAL ENGINEERING COURSE

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, ELECTRICAL ENGINEERING COURSE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Mach. 51—Elementary analysis	5	Math. 52—Elementary analysis	5
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Drawing 1—Elements of drawing	3	Drawing 2—Elements of drawing	3
Shop 11 or Speech 8	2	Speech 8 or Shop 11	2
Chem. 2a—General chemistry	4	Chem. 2b—General chemistry	4
Physical activity requirement	0	Physical activity requirement	0
Freshman lectures	0	Freshman lectures	0
	17		17

SOPHOMORE YEAR

Math. 54—Differential and integral calculus	4	Math. 55—Calculus	4
Physics 53—Mechanics and heat	3	Physics 54—Electricity, magnetism, and sound	3
Drawing 3—Descriptive geometry	3	Elect. Engr. 1—Electrodynamics	4
Top. Engr. 108 is recommended		Elect. Engr. 51—Electrodynamics lab.	2
Econ. 1a—General economics	4	Shop 12—Advanced shop work	2
Elective	3	Non-professional elective	3
Physical activity requirement	0	Physical activity requirement	0
	17		18

JUNIOR YEAR

Mech. 1, 2—Statics, dynamics	5	Mech. 3—Mechanics of materials	5
Physics 55—Adv. electricity, magnetism	3	Steam and Gas 4—Thermodynamics	3
Steam and Gas 3—Thermodynamics	3	Steam and Gas 28—Elementary testing	2
Elect. Engr. 2—Direct current machinery	4	Elect. Engr. 3—Alternating current circuits and machinery	4
Elect. Engr. 52—Direct current laboratory	2	Elect. Engr. 53—Alternating current lab.	2
Non-professional elective	3	Non-professional elective	3
	20		19

SENIOR YEAR

Elect. Engr. 4—Alternating current machinery	4	Physics 56—Adv. electricity and light	3
Elect. Engr. 54—Alternating current lab.	2	Contracts 101—Contracts and specifications	2
Steam and Gas 29—Advanced testing	1	Elect. Engr. 25—Seminar	2
Hydr. 1—Elementary hydraulics	3	or	
Mech. 53—Materials of construction	2	Mech. 53—Materials of construction	(2)
or		Mach. Design 5—Machine elements	3
Elect. Engr. 25—Seminar	(2)	Electives	9
Electives	7		
	19		19

ELECTIVES

Of the 28 elective credits,—

10 may be elected without restriction.

12 may be elected in subjects which are non-professional in the sense that they are not prerequisite to the more technical phases of engineering work,—in subjects such as economics, political and social science, history, literature, the languages, and the like.

6 must be selected from the following group of electrical applications:

First Semester		Second Semester	
E. E. 116—Electric circuits	3	E. E. 104—Electrical machine design	3
E. E. 122—Electric meters	3	E. E. 120—High tension insulation	3
E. E. 137—Power distribution	3	E. E. 127—Central stations	3
E. E. 154—Elements of radio communication	3	E. E. 133—Illumination and photometry	3
E. E. 155—Thermionic vacuum tube circuits	3	E. E. 156—Elements of wire communication	3
E. E. 160—Advanced individual studies*	3–5	E. E. 157—Radio circuit analysis and design	3
		E. E. 160 Advanced individual studies*	3–5
		E. E. 214—Advanced dynamo laboratory	3

* Must receive the approval of the E.E. Course Committee.

CHEMICAL ENGINEERING COURSE

Industrial development generally and that in the chemical industries particularly has made chemical engineering one of the important branches of the engineering profession. There is now a demand for men having a combined engineering and chemical training. To satisfy this demand the four-year course in Chemical Engineering has been arranged, leading to the degree of Bachelor of Science.

The variety of industries is most comprehensive in which the chemical engineer now generally finds employment. Among these may be mentioned the by-product coke and gas industry and its intimate connection with the manufacture of dyestuffs; the production of paper and chemical pulp; the hardening of vegetable and animal oils into valuable foods; the refining of crude petroleum into gasoline, lubricating oils, and waxes; the manufacture of iron and steel, brass, and alloys; the sulphuric acid and alkali industry; and the construction of machinery and equipment for chemical plants. The electrochemical industries for the refining of copper, the production of caustic soda and chlorine, and the electroplating of metals for prevention of corrosion have been firmly established. The use of the electric furnace for making steel, brass, and alloys has led to revolutionary changes in these industries.

The graduate usually begins his work as a cadet engineer in the operating or research departments; as a chemist in the laboratory; or in the sales organization. His goal is frequently an executive position in a corporation or in his own business; or he may do consulting work after having gained the necessary experience.

Because the field of chemical engineering is so comprehensive, the training of men for this work must be along broad lines. Besides the required technical courses, instruction in the departments of economics, accounting, and English should be elected by the student, because training in such studies is a most valuable asset. To train men in the technical details of any branch of chemical engineering is not the purpose of the course,

since the technique of an industry can best be acquired in subsequent practice. The purpose of the course is to offer instruction in those fundamental subjects which are essential to the chemical engineer in whatever line he may follow.

EQUIPMENT

All of the Chemical Engineering Building is devoted to the laboratories, classrooms and offices of the Department of Chemical Engineering. The building, 75 feet wide by 125 feet long, comprises a high basement and two floors with a commodious attic.

GAS AND FUEL LABORATORY. Bomb calorimeters of various types are available for testing the heating values of coal and oil; gas calorimeters together with the necessary meters, scales, and water tanks are also provided. The equipment for gas analysis, for testing of lubricating and road oils, and for distillation of petroleum products is complete.

PYROMETRY LABORATORY. The pyrometric laboratory is well supplied with base metal and platinum thermocouples, resistance thermometers, and optical and radiation pyrometers for the measurement of high and low temperatures. The equipment includes precision potentiometers and Wheatstone bridges for highly accurate measurements. The furnaces are electrically heated and for accurate control there is an ample number of transformers and reactance coils. The facilities are well adapted for instruction in temperature control and measurements under industrial conditions.

METALLOGRAPHY LABORATORY. Besides the general laboratory for preparing the metal specimens for microscopic examination, there is a photographic dark room for developing negatives and making prints. The microscopes for student use are of a high grade and are provided with attachments for photographing; for research there are larger microscopes capable of high magnification. Accessory apparatus such as furnaces for heat treatment, pyrometers, polishing apparatus, and quenching devices are also provided.

CHEMICAL FACTORY LABORATORY. About one-half of the basement is devoted to chemical manufacture and tests on machinery. A complete laboratory with balance room on the first floor is provided for chemical analysis. Among the important pieces of apparatus are: two rectifying stills each of 20 gallons capacity, three plain oil stills of 10 to 15 gallons capacity, 3 filter presses, a single effect vacuum evaporator, a vacuum drying oven, pressure digester, two hydraulic presses, one of 40 tons maximum pressure, an autoclave of 5 gallons capacity, and crushing and grinding machinery. Besides these there are the necessary wooden, metal and stoneware tanks, basket centrifugal machine, drying oven, furnaces of the muffle, crucible, and reverberatory type, and other desirable appliances to conduct experiments on a semi-factory scale.

ELECTROCHEMISTRY LABORATORY. The general laboratory for electrochemistry is well equipped with tanks, stirring devices, indicating and recording ammeters and voltmeters, instruments for measuring resistances. Either alternating or direct current is available at the desk of each student.

For instruction in electroplating, refining and electrotyping, the equipment comprises polishing lathes, a motor dynamo, and a storage battery.

Tanks of wood, enameled iron, and stoneware, with a capacity from 30 to 60 gallons, are provided for plating and cleaning solutions.

ELECTRIC FURNACE LABORATORY. The electric furnace room for alternating current contains resistance and arc furnaces for general purposes, a vacuum furnace of the Arsen type, a Girod steel furnace having a capacity of 100 pounds of metal, and a rotating brass furnace of about 100 pounds capacity. There is available for the exclusive use of this laboratory the power from three transformers each of 75 k. v. a. which may be had continuously.

LABORATORY FOR INDUSTRIAL MICROSCOPY. A large, well-lighted room on the third floor is provided specially for the instruction in industrial microscopy. Petrographic and chemical microscopes and many useful accessories are available for the study and identification of textiles, pulp and paper, paint, refractories, leather, etc. A separate chemical laboratory is provided for the preparation of samples.

FOREST PRODUCTS LABORATORY. The United States Forest Products Laboratory is operating in cooperation with the University of Wisconsin. The work carried on in this laboratory is largely of a chemical engineering nature dealing with the preservation of timber, manufacture of paper, utilization of wastes, and the like. The management of this laboratory provides that chemical engineering students may undertake investigation using the Forest Products Laboratory equipment, so far as such use does not interfere with their own work.

CHEMICAL ENGINEERING COURSE

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, CHEMICAL ENGINEERING COURSE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Math. 51—Elementary analysis	5	Math. 52—Elementary analysis	5
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Drawing 1—Elements of drawing	3	Drawing 2—Elements of drawing	3
Shop 1, 2—Elementary shopwork	2	Shop 4, 5—Lathe work, planing, milling	2
Chem. 2a—General chemistry	4	Chem. 2b—General chemistry	4
Physical activity requirement	0	Physical activity requirement	0
Freshman lectures	0	Freshman lectures	0
	17		17

SOPHOMORE YEAR

Math. 54—Differential and integral calculus	4	Math. 55—Calculus	4
Chem 14—Quantitative analysis	5	Mech. 1, 2—Statics, dynamics	5
Physics 51—General physics	5	Physics 52—General physics	5
Mach. Design 1—Mechanism	4	Chem. Engr. 12—Technical examination of fuels, gases, water	2
Physical activity requirement	0	Chem. Engr. 18—Fundamentals of chemical engineering	2
		Physical activity requirement	0
	18		18

JUNIOR YEAR

Mech. 5—Mechanics of materials	5	Steam and Gas 4—Thermodynamics	3
Steam and Gas 3—Thermodynamics	3	Steam and Gas 25—Elementary testing	2
Chem. 120—Organic chemistry	3	Chem. 120—Organic chemistry	3
Chem. Engr. 117—Technical pyrometry	2	Chem. Engr. 111—Manufacturing operations	4
Chem. Engr. 119—Metallography	3	Mech. 54—Materials of construction	2
Elective (Economics recommended)	3	Electives	5
	19		19

Summer work, Chemical Engineering 114, Chemical manufacture, 4 cr.

SENIOR YEAR

Steam and Gas 26—Advanced testing	1	Engr. Admin. 101—Construction, or	2
Elect. Engr. 8—Electrical machinery	3	Contracts 101—Contracts and specifications	(2)
Mach. Design 5—Machine elements	3	Chem. Engr. 116—Thermal processes of chemical engineering	2
Chem. Engr. 101—Applied electrochemistry	5	Chem. Engr. 115—Industrial chemistry	2
Chem. Engr. 115—Industrial chemistry	3	Chem. Engr. 122—Special problems	4
Chem. Engr. 116—Thermal processes of chemical engineering	2	Chem. 30—Physical chemistry	3
Elective	2	Elect. Engr. 9—Electrical machinery	3
		Elective	3
	19		19

MINING ENGINEERING COURSE
METALLURGICAL ENGINEERING COURSE

The courses in mining, metallurgy, and geology are offered for students who intend to enter any branch of the mineral industry, and they are also recommended to those desiring an engineering or broad technical training.

The regular four-year courses in mining and geology leading to the degree of Bachelor of Science, Mining Engineering Course, and the four-year course in metallurgy leading to the degree of Bachelor of Science, Metallurgical and Engineering Course are open to graduates of accredited high schools, and are fully outlined in pages 266 to 268.

The degrees, Master of Science, Mining Engineering Course, and Master of Science in Metallurgy are conferred upon graduates of this and other approved institutions upon completion of one year's work in residence and the submission of a satisfactory thesis. The professional degrees, Engineer of Mines and Metallurgical Engineer, are granted to graduates of the College of Engineering, University of Wisconsin, who have completed five years professional work in their respective fields, and have submitted a satisfactory thesis. For a detailed statement of the requirements for the degree see section under Higher Degrees.

A survey of mineral production and the metallurgical industries in the state and in adjacent territory in what might be called Wisconsin's sphere of influence shows it to be located near the greatest reserves of iron ore in the world, on the one hand, and, on the other, are the great blast furnaces and rolling mills, foremost among the world's steel producers. Wisconsin is also located between the copper producing district and the zinc lead district, which are among the oldest mining districts in the United States. As a foundry state, Wisconsin occupies a unique position among American states for its gray iron foundries, for malleable iron foundries, for steel foundries, and for electric steel foundries. In the manufacture of various lines of mining, smelting, and power machinery, Wisconsin is one of the leaders of the world.

The United States is the preeminent mining nation of the world, producing 40 per cent of the mineral production of the world. The mineral production of the world has increased very much in recent years, the output since the year 1900 equalling the total production in all past history up to that date. With this increase in production, the need for technical knowledge and the demand for technically trained mining engineers, metallurgists, and geologists has correspondingly increased. These fields are now the youngest and most rapidly growing branch of engineering, and education in them should fulfill certain needs of the industry in the state, and within the immediate region of Wisconsin influence. It should have that broad general basis, as well as detailed technical application to make it best play its part in the future commercial expansion of the United States into foreign fields. It has been said that university education is to promote leadership in the state, leadership in the nation, leadership in the world's affairs, and to give to the individual the greatest opportunity for advancement. In addition he must have the basic general and technical training of an engineer. He must make a study of the technical and industrial problems of his profession, and he should also broaden himself by a study of the problems of the state and the nation by the study of man.

To give the specialized training to carry out the scheme outlined above, the Department of Mining and Metallurgy organized in the College of Engi-

neering, in conjunction with the Department of Geology of the College of Letters and Science, takes up the specialized work which follows the thorough fundamental training which is the first essential of a successful engineer.

The location of a technical school at a great university has many advantages which cannot be duplicated. It has all the resources of personnel and equipment for instruction and research; it has the advantages of access to great libraries and laboratories, all of which offer facilities that only a great university can maintain. It has the advantages of cooperation with strong independent departments in geology, chemistry, physics, mathematics, mechanics, civil, electrical, chemical, and mechanical engineering, English, foreign languages, commerce, economics and various other subjects which are of vital importance to the mining engineer. The University of Wisconsin is fortunate in the possession of exceptional facilities in all of these lines. As a result, the Department of Mining and Metallurgy is enabled to concentrate all of its efforts on and to specialize in its particular fields, and outlines and directs the work of its students in allied subjects. The contact of the mining student with the larger and broader interests at a university enlarges his outlook on life in general.

EQUIPMENT

The mining and metallurgical laboratory is fireproof and contains about twelve thousand square feet of laboratory floor space. The basement contains the crushing and screening room, ore bins, supply room, and ceramic laboratory. The metallurgical laboratory occupies the north end of the first floor while the ore-dressing laboratory includes both floors at the opposite end. Three offices and lavatory with lockers and showers are provided. The fire assay laboratory, chemical laboratory, balance room, metallographic room, dark room, process testing laboratory, are temporarily located in the Chemistry building.

The fire assay equipment consists of one triple muffel western coal furnace, crucible coke furnaces, and various gas and oil-fired assay furnaces.

The metallurgical laboratory is equipped with an oil-fired stationary hearth reverberatory furnace, an oil-fired roasting furnace, an oil-fired tilting reverberatory furnace, a copper, and lead blast furnace, a gas-fired tilting copper reverberatory furnace, various electric- and gas-fired furnaces, pyrometers, and furnace accessories. Metallographic miscroscopes and grinding and polishing apparatus for the examination of metals, minerals, and metallurgical products are provided.

Special electric furnaces and pyrometer equipment are available for similar work in iron and steel and other metallurgical research of advanced nature.

Equipment for advanced research along various hydrometallurgical lines is provided.

The crushing room contains laboratory crushers for fine crushing, of the jaw and gyratory type, disc, and ball grinders and rolls. The ore bins are conveniently located for crushing tests by the laboratory size crushers.

Dry screening is done by hand, by shaking screens, and by the trommel screens in the ore-dressing laboratory.

The ore-dressing laboratory occupies both floors at the south end of the building. It contains a large jaw-type crusher, a large set of rolls, bucket elevators, trommel screens, jigs of the Woodbury, Harz, and Richards pul-

sator types, Wilfley and Diester tables, a Johnson suspended vanner, a Ding and a Grondal magnetic separator. Each machine is an independent unit provided with ample head room to permit sampling its feed and products, and with pipe and launder systems and pumps or elevators to return these products for continuous treatment when desired. Classifiers, settling and dewatering cones, are provided so that various units may be grouped and large lots of ore tested under milling conditions when this is desirable.

For testing gold and silver ores a battery of two 850 pound stamps, amalgamating tables together with laboratory leaching apparatus are available.

In process testing initial classroom testing is performed and small lots of ores are tested in small equipment to determine methods best adapted to their successful treatment. For this purpose small scale laboratory jigs, tables, classifiers, and flotation equipment together with laboratory leaching apparatus are available. For the rapid examination of ore dressing products microscopes are provided.

For research in ore dressing a well equipped laboratory for faculty members and advanced students is maintained.

For making and testing clay products a pug mill, an auger brick and tile machine, a wet and dry pan, a repress, a cutting table, and an oil-fired down-draft kiln are available.

The mining museum contains models of several types of surface and underground mine structures, mine models and the various types of rock drills used in mining and quarry practice.

In the metallurgical museum there is an extensive exhibit of castings illustrating quality of product, gating, and the use of risers. Another series illustrates defects in castings. Samples of all foundry material are included. The collection of iron blast furnace slags, with the operating data under which they were produced, is probably the most complete in the United States.

While not required from undergraduates for graduation, a thesis upon some suitable subject may be submitted by students who have an interest in research. This thesis will replace an equivalent amount of work regularly required for graduation.

COURSES IN MINING AND GEOLOGY

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, MINING ENGINEERING COURSE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Math. 51—Elementary analysis	5	Math. 52—Elementary analysis	5
Drawing 1—Elements of drawing	3	Drawing 2—Elements of drawing	3
Chem. 2a—General chemistry	4	Chem. 2b—General chemistry	4
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Shop 1, 2—Elementary shopwork, or	2	Shop 4, 5—Lathe work, planing, milling	2
Top. Engr. 108—Short course in surveying	(3)	or Mining 12—Mine surveying	(2)
Physical activity requirement	0	Physical activity requirement	0
Freshman lectures	0	Freshman lectures	0
	17-18		17

SOPHOMORE YEAR

Math. 54—Differential and integral calculus	4	Math. 55—Calculus	4
Physics 51—General physics	4	Physics 52—General physics	4
Chem. 14—Quantitative analysis	5	Drawing 3—Descriptive geometry	3
Geol. 9—Engineering geology	3	Geol. 9—Engineering geology	3
Mining 122—General metallurgy	3	Mining 121—Assaying	3
Physical activity requirement	0	Mining 101—Excavation and tunneling	3
		Physical activity requirement	0
	19		20

In order to best prepare the student for specialized work in one of the three special fields—mining, metallurgy, and economic geology—three options are offered from which he may select his major and minor studies at the beginning of his junior year.

The Major is to consist of 30–40 credits from one of the three groups listed below.

The Minor is to consist of 15–20 credits from either other group. No Minor studies may be selected from the Major Group.

Typical junior and senior year elections are shown below for each of the three options. These outlines are suggestive only and may be carried within the general rule of major, minor, and free electives.

MINING GROUP.

Mining and Metallurgy 103, 104, 105, 106, 107, 108, 109, 126.
Railways 104, Structural Engr. 10, Steam and Gas Engr. 3 and 4.
Electrical Engr. 8 and 9, Hydraulics 1, Geology 113, 115.
Economics 1a, 1b, 5, 137.

GEOLOGY GROUP.

The courses in Geology; Mining and Metallurgy 101, 103, 104, 107, 109, 124.

METALLURGY GROUP.

Mining and Metallurgy 122, 123, 124, 125, 126, 127, 128, 130, 131, 132, 133, 140.
Structural Engr. 10, Steam and Gas Engr. 3 and 4, Electrical Engr. 8 and 9, Chemical Engr. 102, Economics 1a, 1b, 5, 137.

MINING OPTION

SUGGESTED SEQUENCE

JUNIOR YEAR

Mech. 1, 2—Statics, dynamics	5	Mech. 3—Mechanics of materials	5
Geol. 6—Mineralogy	5	Mech. 53—Materials of construction	2
Mining 103—Mining methods	3	Geol. 6—Mineralogy	5
Geol. 114—Structural geology	3	Mining 103—Mining methods	3
Minor and electives	3	Minor and electives	4
	19		19

SENIOR YEAR

Mining 104—Mine valuation	3	Mining 109—Mine and smelter administration	3
Mining 107—On dressing	5	Mining 105—Mine engineering	3
Elect. Engr. 8—Electrical machinery	3	Struct. Engr. 10—Structural design	2
Struct. Engr. 10—Structural design	2	Elect. Engr. 9—Electrical machinery	3
Minor and electives	6	Minor and electives	8
	19		19

NOTE—Preferably at the end of the junior year those taking the Mining option are required to take a six week inspection trip in the mining districts while those taking the Metallurgical option take a similar trip to the metallurgical centers.

GEOLOGY OPTION

SUGGESTED SEQUENCE

JUNIOR YEAR

Mech. 1, 2—Statics, dynamics	5	Mech. 3—Mechanics of materials	5
Geol. 6—Mineralogy	5	Mech. 53—Materials of construction	2
Geol. 114—Structural geology	5	Geol. 6—Mineralogy	5
Mining 103—Mining methods	3	Mining 103—Mining methods	3
		Minor and electives	5
	18		20

SENIOR YEAR

Mining 104—Mine valuation	3	Mining 109—Mine and smelter administration	3
Mining 107—Ore dressing	5	Major, minor, and electives	16
Major, minor, and electives	11		
	19		19

COURSE IN METALLURGY

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, METALLURGICAL ENGINEERING COURSE

FRESHMAN AND SOPHOMORE YEARS (see across the page)

JUNIOR YEAR

Mech. 1, 2—Statics, dynamics	5	Mech. 3—Mechanics of materials	5
Mining 123—Metallurgy of copper, lead, and zinc	3	Mech. 53—Materials of construction	2
Mining 133—Metallurgy laboratory	2	Mining 124—Metallurgy of iron and steel	3
Mining 130—Physical metallurgy	3	Mining 128—Iron and steel laboratory	2
Mining 131—Foundry metallurgy	2	Mining 127—Hydrometallurgy of gold and silver	2
Chem. Engr. 119—Metallography	3	Minor and electives	6
	18		20

SENIOR YEAR

Mining 107—Ore dressing	5	Mining 109—Mine and smelter administration	3
Mining 140—Heat treatment of low and medium carbon steel	3	Chem. Engr. 102—Electric furnaces	4
Elect. Engr. 8—Electrical machinery	3	Elect. Engr. 9—Electrical machinery	3
Struct. Engr. 10—Structural design	2	Struct. Engr. 10—Structural design	2
Minor and electives	6	Minor and electives	7
	19		19

ENGINEERING EXPERIMENT STATION

The Engineering Experiment Station of the College of Engineering was established by action of the Board of Regents, March 4, 1914. The members of the engineering faculty, together with fellows, scholars, and special assistants, devoting their time to research, constitute the members of the staff of the Experiment Station.

The purpose of this Experiment Station is the promotion of the engineering and industrial interests of the state by the scientific study of problems relating thereto as far as the facilities of the engineering laboratories will permit. So far as may be, the subjects for experimental study are selected with reference to their importance to the state of Wisconsin, although generally the problems are of wider interest and importance.

The establishment of this department brings together into definite organization the research which has been conducted for many years in the College of Engineering. It is expected that by this means such work will be more systematically developed and come to be of greater value to all interests concerned. The results of the research done in the past have appeared in part in papers before technical societies, and in part in the Engineering Series of the University Bulletin. Up to date about sixty-nine such bulletins have been published. A list of the bulletins already published may be had upon application to the University Editor.

In the fields of hydraulic and sanitary engineering, bulletins are published from time to time giving the results of studies of stream flow and other conditions affecting water supply and water power. Bulletins are also issued giving the results of experimental studies in the laboratory on hydraulic machines, apparatus for the measurement of flow of water, and the losses which occur when water flows through pipes and other passages. Investigations now in progress include a study of the variations of stream flow as affected by rainfall, the effect of standing wave in undermining the downstream foundation of dams, the comparison of losses in various pipe bends, the resistance to flow in locomotive water columns and the relief from water hammer pressure caused by closure of the valves, the discharge coefficients of submerged weirs of various heights and types of crests, pipe friction studies in wrought iron pipes of long lengths and large diameters, coefficients of discharge of standard triangular weirs and triangular weirs when placed on the end of circular conduits, and studies of the performance of different types of rotary pumps.

In the sanitary field studies are being made on the purification actually effected by modern sewage disposal plants. In cooperation with the State Board of Health, investigations are being made of pea cannery wastes and creamery wastes.

In the Materials Testing Laboratory, experiments have been conducted for several years on various features of reinforced concrete design. At the present time further tests are being made on the permeability, durability, and other properties of concrete. Tests are in progress in friction in line shaft bearings, on temperature stresses in reinforced concrete chimneys, on steel columns under eccentric loads, on flat plates and cylindrical tanks, on fatigue of brasses, steel and cast iron, and on steels subjected to prolonged constant strain. The laboratory is cooperating with the Materials Department of the State Highway Commission; also with National Engineering societies in studies of materials of construction.

The Steam and Gas Department of Mechanical Engineering has published information relating to the heat insulating properties of commercial pipe coverings, the economical combusion of soft coal, the Pitot tube as an instrument for measuring the flow of gases; besides a number of bulletins covering heating and ventilating subjects. These papers cover the study of recirculation of washed air for ventilating purposes, the direct transmission of heat from steam to hot water for heating purposes, complete engineering service data for a large hospital, and the infiltration of air into buildings through windows and through various types of wall construction. The infiltration work is being carried on in cooperation with the American Society of Heating and Ventilating Engineers.

In the Department of Electrical Engineering studies and experimental investigations have been made pertaining to the flow of heat through cable insulation, electrical recorders for mechanical stresses, electrical methods of geophysical exploration, the radiating and receiving properties of radio antennas, the measurement of the constants of radio apparatus and receiving sets, inductive effects between power and telephone circuits, the nature of failure in insulating materials, speed variation and power factor correction in induction motors, and the theory of transient phenomena in electric networks.

A Standards Laboratory is operated in connection with the work of the Wisconsin Railroad Commission and the state at large, testing and standardizing electrical metering devices of all kinds. Through this laboratory, the facilities of the Electrical Laboratory have been made available to the industries of the state for tests and investigations which require the use of instruments not ordinarily possessed by the industries. The following tests indicate the nature of the work conducted for the industries: oscillograph tests of magnetos, ignition coils and circuit breakers, acceptance test of transformers for ratio, regulation and efficiency, certification of ratio and phase angle of current transformers, tests on insulators, insulating materials, and cables, tests of lamps and magnetic materials.

The researches in the Chemical Engineering Department include: the measurement of the temperature of hot flowing gas, the aeration of industrial gas burners, the liberation of ammonia from solutions by various commercial limes, the transfer of heat in tubular gas condensers, the case hardening of steel with manufactured gas, the methods of analysis of cooking liquor for Kraft pulp, the electroplating of chromium, and the mechanism of extraction or solution of soluble salts by water.

Research is being carried on in the field of Mining and Metallurgy by that department. The treatment of zinc ores by flotation concentration methods and electrolytic recovery methods, developed in our laboratories, offers considerable economic possibilities in the treatment of low grade ores

with higher recoveries than are now possible. The constitution and physical properties of iron blast furnace slags is being studied. A grant from the Engineering Foundation is facilitating progress in this work. With the assistance of different groups of founderies in Wisconsin, research on the properties of gray cast iron, the reactions of steel-making, and the manufacture of pearlitic iron is being instituted. From time to time the department cooperates with individual enterprises in studies of the special problems which their work develops.

For further information regarding the Engineering Experiment Station, address F. E. TURNEAURE, *Director*.

DEPARTMENTS OF INSTRUCTION

Abbreviations used in the announcement of courses:

Yr—a continuous course extending through two semesters
I—course given during the first semester
II—course given during the second semester
I, II—semester course given each semester
cr—number of credit hours per semester
*—to be arranged

Courses numbered from 1 through 100 are open for credit to undergraduates only; from 101 to 199 to both undergraduates and graduates; over 200 to graduates only, or very exceptionally to advanced undergraduates.

The unit of reckoning the credit is one hour of classroom work per week. Two hours of drawing, laboratory, field, or shop work (which require little outside preparation) count as one hour of classroom work.

AERONAUTICS

EDWARD ROSE MAURER, B.C.E., *Professor of Mechanics*
RAYMOND JEFFERSON ROARK, M.S., C.E., *Associate Professor of Mechanics*
LEROY ALONZO WILSON, M.E., M.M.E., *Associate Professor of Steam and Gas Engineering*
GROVER C. WILSON, M.S., M.E., *Assistant Professor of Steam and Gas Engineering*
ERIC REXFORD MILLER, M.S., *Lecturer in Meteorology*
CHARLES FREDERICK PETERS, *Instructor in Mechanical Practice*
ROBERT NICHOLAS SCHUMANN, *Instructor in Mechanical Practice*

101. AERODYNAMICS. I; 3 cr. The wind tunnel, properties of airfoils and of combinations, and parasitic resistance; also airplane controls and propellers; stability and performance. Prerequisite: Mechanics 2. Mr. Maurer.

102. AIRPLANE STRESS ANALYSIS. II; 3 cr. Stress analysis of airplane structures with special reference to Department of Commerce requirements. Prerequisites: Aeronautics 101 and Mechanics 3. Mr. Roark.

103. DESIGN OF AIRPLANE PARTS. I; 2 cr. Design of spars, struts and other structural elements. Aircraft materials. Prerequisite: Aeronautics 102. Mr. Roark.

104. PROPELLER THEORY. II; 2 cr. Theories of propeller performance; practical methods of design. Prerequisite: Aeronautics 101. Mr. Maurer.

108. WELDING. I; 2 cr. Arc and gas welding, with special reference to aircraft construction. Lab. fee $6.00. Mr. Peters, Mr. Schumann.

109. AIRPLANE ENGINES. I; 2 cr. Fundamental principles of aircraft engine construction, operation, and maintenance. Characteristics of gasoline and lubricating oils. Study of modern engines, carburetors, ignition systems, starters, and superchargers. Prerequisite: Steam and Gas 1 or 3, or concurrent registration. Mr. L. A. Wilson.

110. AERONAUTICAL METEOROLOGY. II; 1 cr. Prerequisite: Junior standing. Mr. Miller.

130. AIRPLANE ENGINE TESTING. II; 2 cr. Prerequisite: Beginning course in Steam and Gas laboratory. Lab. fee $6.00. Mr. G. C. Wilson.

CHEMICAL ENGINEERING

OTTO LOUIS KOWALKE, Ch.E., *Professor of Chemical Engineering, Chairman*
OLAF ANDREAS HOUGEN, Ch.E., Ph.D., *Associate Professor of Chemical Engineering*
OLIVER PATTERSON WATTS, Ph.D., Sc.D., *Associate Professor of Chemical Engineering*
ROLAND ANDREW RAGATZ, M.S., *Asst. Professor of Chemical Engineering*
KENNETH MERLE WATSON, Ph.D., *Assistant Professor of Chemical Engineering*
ALOIS JOHN KROMBHOLZ, M.S., *Instructor in Chemical engineering*
ALFRED AUGUST REITER, M.S., *Instructor in Chemical Engineering*
EUGENE CHARLES RAGATZ, B.S., *Instructor in Chemical Engineering*

8. METALLOGRAPHY FOR MECHANICAL ENGINEERS. II; 2 cr. The microscopic examination of the structure of steels used for cutting metals; metals suited to machine tool construction, as affected by heat treatment. Not open to chemical engineers. Lab. fee $6.00; deposit $1.00. Mr. Ragatz, Mr. Krombholz.

12. TECHNICAL EXAMINATION OF FUELS, GASES, AND WATER. I, II; 2 cr. Recitations and laboratory work together with reports on the interpretation of experimental results. Prerequisites: Chemistry 11 or 14, Physics 1 or 51. Lab. fee $6.00; deposit $2.00. Mr. Watson, Mr. Reiter.

15. INDUSTRIAL CHEMISTRY. I; 3 cr, II; 2 cr. Lectures and recitations in the technology of important chemical industries. Prerequisite: Chemistry 120 or concurrent enrollment. For Letters and Science chemistry majors. Mr. Hougen, Mr. Kowalke.

18. FUNDAMENTALS OF CHEMICAL ENGINEERING. II; 2 cr. The applications of the laws of stoichiometry, gases, vapors, and solubilities to problems in chemical industries. Prerequisites: Math. 52, Chemistry 11 or 14. Mr. Watson.

23. MANUFACTURING EQUIPMENT. I; 2 cr. A survey of the equipment used in, and of the principles underlying chemical manufacturing operations. Not open to chemical engineers. Prerequisites: College algebra, Chemistry 1, Physics 1. Mr. Watson.

101. APPLIED ELECTROCHEMISTRY. I; 5 cr. The laws and principles of electrolysis, with their applications to electroplating, the refining of metals, and electrochemical manufacture. Lab. fee $6.00. Mr. Watts, Mr. Krombholz.

102. ELECTRIC FURNACES. II; 4 cr. Recitation, two hours, on the construction, operation, and products of electric furnaces. Laboratory practice, four hours: melting steel; making calcium carbide, carborundum, and alloys. Lab. fee $8.00. Mr. Watts.

111. MANUFACTURING OPERATIONS. II; 4 cr. Lectures, recitations, and reports on fundamental principles of sizing, mechanical separation of materials, evaporation and drying, filtration, distillation, flow of fluids, etc., and the effective arrangements of and suitable materials for constructing appliances to carry out these operations. Prerequisites: Mathematics 55, Physics 52, Steam and Gas 3, Chem. Engr. 18. Mr. Kowalke.

113. GAS MANUFACTURE AND DISTRIBUTION. I; 2 cr. Lectures and recitations on technology of gas for domestic and industrial heating and on problems of distribution. Prerequisite: Senior standing. Mr. Kowalke.

114. CHEMICAL MANUFACTURE. 4 cr. Laboratory practice supplementary to course 111; efficiency tests on unit operations, manufacture of chemical products, recovery of products from waste materials. Prerequisites: Chemistry 14, Chem. Engr. 111. Required for chemical engineers as summer work; elective for other students. Lab. fee $12.00. Mr. Kowalke.

115. INDUSTRIAL CHEMISTRY. I; 3 cr, II; 2 cr. Lectures and recitations on the scientific, engineering, and economic aspects of selected chemical industries. Prerequisites: Chem. Engr. 111, Chemistry 120 or concurrent enrollment. For students in Chemical Engineering and for graduates. Mr. Kowalke.

116. THERMAL PROCESSES OF CHEMICAL ENGINEERING. Yr; 2 cr. Application of the principles of thermophysics and physical chemistry to the solution of problems in the thermal processes in chemical industries. Prerequisite: Chem. Engr. 111. Mr. Hougen.

117. TECHNICAL PYROMETRY. I; 2 cr. Recitations and laboratory work on the principles and methods of industrial measurement and control of temperature. Prerequisite: Physics 52. Lab. fee $6.00. Mr. Watson, Mr. Reiter.

119. METALLOGRAPHY. I; 3 cr. Lectures and laboratory instruction in the microscopic examination and microphotography of iron, steel (including special steels), brasses, bearing metals, and other technical alloys, and the effect of heat and mechanical treatment together with the theories of solidification and constitution of these materials. Prerequisites: General chemistry and Physics 1 or 51. Lab. fee $6.00; deposit $1.00. Mr. Ragatz, Mr. Krombholz.

122. SPECIAL PROBLEMS. II; 4 cr. One or more assigned problems involving greater opportunity for independent effort, than is possible in the usual laboratory exercise. A detailed typewritten report is required on each project. Prerequisites: Chem. Eng. 101, 111, 117, 119. Lab. fee $9.00. Staff.

124. INDUSTRIAL MICROSCOPY. I; 3 cr. Lectures and laboratory work on micrometry and the microscopic and microchemical examination of selected industrial products. Prerequisites: Chemistry 120, Physics 51. Lab. fee $6.00. Mr. Hougen.

125. MATERIALS OF CONSTRUCTION FOR EQUIPMENT IN CHEMICAL INDUSTRY. I; 2 cr. Mr. Kowalke.

126. METALLOGRAPHY OF ALLOY STEELS. II; 2 cr. Prerequisite: Chem. Engr. 119. Lab. fee $3.00. Mr. Ragatz.

127. METALLOGRAPHY OF NON-FERROUS METALS AND ALLOYS. II; 2 cr. Prerequisite: Chem. Engr. 119. Lab. fee $6.00. Mr. Ragatz.

128. ADVANCED METALLOGRAPHIC TECHNIQUE. II; 1 cr. Prerequisite: Chem. Engr. 119. Lab. fee $3.00. Mr. Ragatz.

200. RESEARCH. *cr. Assigned experimental and library investigation together with conferences and written reports. Lab. fee $3.00 per credit. Mr. Kowalke, Mr. Watts, Mr. Hougen, Mr. Ragatz.

231. SEMINARY. Yr; 2 cr. The presentation and discussion of papers dealing with various problems in chemical engineering. Mr. Kowalke.

232. CORROSION. II; 2 cr. Reading course. Mr. Watts.

233. DIFFUSIONAL AND COLLOIDAL PROCESSES. I; 2 cr. Mr. Watson.

234. THEORETICAL CONCEPTS IN MODERN METALLOGRAPHIC SCIENCE. Yr; 2 cr. Mr. Ragatz.

CITY PLANNING

See Highway Engineering and City Planning.

DRAWING

HERBERT DENNY ORTH, B.S., *Associate Professor of Drawing and Descriptive Geometry, Chairman*

ADAM VAUSE MILLAR, M.S., *Professor of Drawing and Descriptive Geometry*

JOSEPH DOW LIVERMORE, B.S., *Assistant Professor of Drawing and Descriptive Geometry*

KENNETH GRINNELL SHIELS, M.S., *Assistant Professor of Drawing and Descriptive Geometry*

HOWARD BAILEY DOKE, *Instructor in Drawing and Descriptive Geometry*

FULLER ORVILLE GRIFFITH, B.S., *Instructor in Drawing and Descriptive Geometry*

ROBERT ROCKWOOD WORSENCROFT, B.S., *Instructor in Drawing and Descriptive Geometry*

1. ELEMENTS OF DRAWING. I, II; 3 cr. Working drawings; third angle projection, lettering, tracing, and blueprinting. Phillips and Orth's *Mechanical Drawing*. Lab. fee $1.00. Mr. Orth and staff.

2. ELEMENTS OF DRAWING. II; 3 cr. Working drawings, lettering, sketching, isometric, and cabinet drawing. Phillips and Orth's *Mechanical Drawing*. Prerequisite: Drawing 1. Lab. fee $1.00. Mr. Orth and staff.

3. DESCRIPTIVE GEOMETRY. I, II; 3 cr. Fundamental theory of point, line, and plane, with application to solids. Generation and classification of lines and surfaces; tangent planes; sections, intersections and developments. Millar, Maclin, Markwardt, and Shiels' *Descriptive Geometry*. Prerequisite: Drawing 2. Mr. Millar, Mr. Orth, Mr. Shiels, Mr. Livermore.

7a. FREEHAND LETTERING. I, II; 1 or 2 cr. Construction and composition of Classic Roman capitals, "lower case" letters, English Gothic, black letter, and modern script. Special emphasis given to the choice of lettering styles in advertising design. Prerequisite: Drawing 1. Mr. Doke.

7b. ADVANCED FREEHAND LETTERING. I, II; 1 or 2 cr. Continuation of Course 7a, which is prerequisite. Mr. Doke.

ELECTRICAL ENGINEERING

EDWARD BENNETT, E.E., *Professor of Electrical Engineering, Chairman*
CYRIL METHODIUS JANSKY, B.A., B.S., *Professor of Electrical Engineering*
JOHN REESE PRICE, B.S., *Professor of Electrical Engineering*
JAMES WEBSTER WATSON, B.S., *Professor of Electrical Engineering*
LESLIE ERSKINE ALLAN KELSO, B.S., *Assistant Professor of Electrical Engineering*
GLENN KOEHLER, M.S., *Assistant Professor of Electrical Engineering*
ALVIN MEYERS, E.E., *Assistant Professor of Electrical Engineering*
GORDON FREDERICK TRACY, M.S., *Assistant Professor of Electrical Engineering*
CLARENCE ALOIS ANDREE, M.S., *Instructor in Electrical Engineering*
REGINALD RALPH BENEDICT, M.S., *Instructor in Electrical Engineering*
ROYCE EVERETT JOHNSON, B.S., *Instructor in Electrical Engineering*
HENRY JOSEPH KUBIAK, B.S., *Instructor in Electrical Engineering*
LUDVIG CONRAD LARSON, E.E., *Instructor in Electrical Engineering*

1. FUNDAMENTALS OF ELECTRODYNAMICS. I, II; 4 cr. An introductory course for sophomore electrical engineers dealing with the derivation and application of the basic ideas and laws relating to electrostatic and electromagnetic phenomena. Open to students of other colleges. Prerequisites: Physics 53 and Math. 54. Mr. Watson, Mr. Larson, Mr. Kubiak.

2. DIRECT CURRENT MACHINERY. I, II; 4 cr. A continuation of E.E. 1. Construction and operation of direct current machinery. Prerequisite: E.E. 1. Mr. Watson, Mr. Andree, Mr. Tracy.

3. ALTERNATING CURRENT CIRCUITS AND MACHINERY. II; 4 cr. Single phase and polyphase circuits; synchronous generators and synchronous converters. A continuation of E.E. 3. Mr. Price, Mr. Watson, Mr. Larson.

4. ALTERNATING CURRENT MACHINERY. I; 4 cr. Transformers, induction motors. Prerequisite: E.E. 2. Mr. Price, Mr. Watson, Mr. Tracy.

6. ELECTRICAL MACHINERY. II; 3 cr. Deals with the laws of the electric and magnetic circuit and the characteristics of direct current machinery. Primarily for mechanical engineers. Prerequisite: Physics 52. Mr. Kelso.

7. ELECTRICAL MACHINERY. I; 3 cr. Alternating current theory and machinery. Primarily for mechanical engineers. Prerequisite: E.E. 6. Mr. Kelso.

8. ELECTRICAL MACHINERY. I; 3 cr. Laws of the electric and magnetic circuit and the characteristics of direct current machinery. Primarily for mining and chemical engineers. Prerequisite: Physics 52. Lab. fee $3.00. Mr. Meyers.

9. ELECTRICAL MACHINERY. II; 3 cr. Alternating current theory and machinery. Primarily for mining and chemical engineers. Prerequisite: E.E. 8. Lab. fee $3.00. Mr. Meyers.

10. DIRECT CURRENT MACHINERY. II; 3 cr. Primarily for civil engineers. Mr. Andree, Mr. Jansky.

25. ENGINEERING PAPERS. I, II; 2 cr. Preparation and presentation of technical papers. Open to engineering seniors. Mr. Jansky.

104. ELECTRIC MACHINE DESIGN. II; 3 cr. Individual design of a d. c. or an a. c. machine. Prerequisite: E.E. 2. Mr. Watson.

116. ELECTRIC CIRCUITS. I; 3 cr. Analytical and oscillograph study of starting currents of transformers and transmission lines, short circuit currents of alternators, generation of radio frequencies, distribution of current and voltage in loaded and unloaded telephone lines. Prerequisite: E.E. 3. Lab. fee $3.00. Mr. Bennett, Mr. Benedict.

120. INSULATION AND HIGH TENSION TESTING. II; 3 cr. Dielectric theory. Properties and laboratory tests of insulators and insulating materials. Prerequisite: E.E. 3. Lab. fee $3.00. Mr. Bennett, Mr. Benedict.

122. ELECTRIC METERS. I; 3 cr. Analytical study of instruments; methods of calibration and measurement; watthour meters and their application; instrument transformers; and relays. Laboratory work in Electrical Standards Laboratory. Prerequisite: E.E. 3. Lab. fee $3.00. Mr. Johnson.

127. ELECTRICAL CENTRAL STATIONS. II; 3 cr. Substation and central station design. Technical and economic choice and arrangement of electrical equipment. Prerequisite: E.E. 3. Mr. Meyers.

133. ILLUMINATION AND PHOTOMETRY. II; 3 cr. Commercial illuminations and their applications to lighting. Design of illuminating systems. Lectures and laboratory work. Lab. fee $3.00.

137. POWER DISTRIBUTION. I; 3 cr. Technical and economic features of local wiring systems; city and rural distribution; and transmission lines.

154. ELEMENTS OF RADIO COMMUNICATION. I; 3 cr. The properties of circuits and devices used in radio communication. With laboratory work. Prerequisite: E.E. 3 or senior standing in physics. Lab. fee $3.00. Mr. Koehler.

155. THERMIONIC VACUUM TUBE CIRCUITS. I; 3 cr. An experimental and analytical study of the properties of amplifier and oscillator circuits and of the performance of the thermionic vacuum tube in telephone and radio networks. With laboratory work. Prerequisite: E.E. 3 or senior standing in physics. Lab. fee $3.00. Mr. Koehler.

156. ELEMENTS OF WIRE COMMUNICATION. II; 3 cr. Theory of telephone and telegraph instruments and circuits. The theory of the long line. With laboratory work. Prerequisite: E.E. 3 or senior standing in physics. Lab. fee $3.00. Mr. Koehler.

157. RADIO CIRCUIT ANALYSIS AND DESIGN. II; 3 cr. A continuation of E.E. 155. Treating of such topics as: amplifiers and their design, operation of triode oscillators in parallel, the design of triode oscillators, modulation and demodulation, analysis and design of radio transmitting and radio receiving sets, elementary radiation theory, partial analysis of a complete radio communication system. With laboratory work. Prerequisite: E.E. 155. Lab. fee $3.00. Mr. Bennett, Mr. Koehler.

160. ADVANCED INDIVIDUAL STUDIES. I, II; *cr. The object of the course is to facilitate investigative work and to develop the students 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. The election of an individual study must receive the approval of the E.E. Course Committee.

214. ADVANCED DYNAMO LABORATORY. II; 3 cr. Advanced laboratory tests with direct and alternating current machinery. Prerequisites: E.E. 54 and 4. Lab. fee $6.00. Mr. Price.

231. TRANSMISSION AND DISTRIBUTION OF POWER. Yr; 3 cr. This course deals with the following features of the transmission and distribution of electrical energy: general economic features of electrical transmission, the constants of the transmission line and apparatus, derivations of equations of the transmission line, abnormal potentials and lightning arresters, insulating material, and line insulators, line construction, relays, and automatic sectionalizing. Mr. Bennett.

232. ADVANCED THEORY OF ELECTRIC CIRCUITS. Yr; 3 cr. This course treats of the following aspects of the theory of electric circuit phenomena: the investigation of the transient phenomena occurring when the conditions in simple and coupled circuits are suddenly changed; the oscillations or surges set up in transmission and cable systems by grounding and switching operations; traveling and stationary waves in transmission and telephone lines; current and magnetic flux distribution at high frequencies. The analytical work is supplemented by experimental work with the oscillograph. Lab. fee $3.00. Mr. Bennett, Mr. Benedict.

233. SEMINAR IN ELECTRIC CIRCUIT THEORY. Yr; 3 cr. This course is a further development of the topics listed under E.E. 232 and in addition treats the following subjects: electromagnetic radiation, electric wave filters in the steady and transient state, the selective properties

of circuits and filter networks to impulse excitation, the development and application of the Heaviside–Carson expansion formula and other advanced analytical methods of treating the phenomena which take place in electrical networks in the transient state. Prerequisite: E.E. 232. Mr. Bennett.

SIGNAL CORPS COURSES. Electrical engineers who enroll in the Signal Corps unit of the Reserve Officers' Training Corps are required to take two 3-credit courses which must be selected from the following group: E.E. 116, 154, 155, 156, 157, 232. Men who enroll in this unit, after satisfactorily completing the course and meeting the military requirements, may be commissioned in the Officers' Reserve Corps if they so desire.

DYNAMO LABORATORY COURSES

MR. PRICE and Laboratory Instructors

51. ELECTRODYNAMICS LABORATORY. I, II; 2 cr. Basic electrostatic and electromagnetic experiments and measurements. To accompany E.E. 1. Lab. fee $6.00.

52. DYNAMO LABORATORY. I or II; 2 cr. Tests of direct current dynamos and appliances. To accompany E.E. 2. Lab. fee $6.00.

53. ALTERNATING CURRENT LABORATORY. II; 2 cr. Experimental study of a. c. circuits; tests of generators, motors and appliances. To accompany E.E. 3. Lab. fee $6.00.

54. ALTERNATING CURRENT LABORATORY. I; 2 cr. Continuation of E.E. 53. Tests of synchronous generators and motors, transformers, converters, and induction motors. To accompany E.E. 4. Lab. fee $6.00.

56. DIRECT CURRENT LABORATORY. II; 2 cr. For mechanical engineers. To accompany E.E. 6. Lab. fee $6.00.

57. ALTERNATING CURRENT LABORATORY. I; 2 cr. Primarily for mechanical engineers. Prerequisite: E.E. 7. Lab. fee $6.00.

60. DIRECT CURRENT LABORATORY. II; 1 cr. To accompany E.E. 10. Lab. fee $3.00.

ENGINEERING ADMINISTRATION

FRANK PALMER WOY, B.S., *Professor of Engineering Administration*
PATRICK HENRY HYLAND, M.E., *Associate Professor of Machine Design*
JAMES WILBUR MCNAUL, B.S., *Assistant Professor of Machine Design*

101. ENGINEER'S RELATIONS DURING CONSTRUCTION. I; 3 cr. The engineer's professional, ethical, business, legal, accounting, and commercial relations; analysis of corporation reports, financial statements, technical report writing and organization of reports; estimating principles; organization of corporations; installation plans; law of real property; land values; unit costs of construction; contracting overhead costs; valuation; engineer's relation to fixed property charges, maintenance, depreciation and retirement reserves, and fair return; corporation finance for engineers; financing costs; failures, receivership and reorganizations. Prerequisite: Senior standing. Mr. Woy.

102. ENGINEER'S RELATIONS DURING PRODUCTION AND OPERATION. II; 3 cr. Administration; executive functions; public relations; banking relations; scientific factory and shop management; industrial cost analysis; industrial overhead burden; fixed and variable factory costs; industrial relations and labor survey; welfare work; sales, advertising and insurance; utility engineer's cost analysis and rate making in electric, gas, water, telephone, street railway and steam railroad utilities; fare analyses and traffic studies. Prerequisite: Senior standing. Mr. Woy.

103. CORPORATION REPORTS. I; 2 cr. The accounting, cost analysis and efficiency methods of measuring the engineer's accomplishments; accounting principles; voucher systems; flow of purchase costs of material and labor into construction and operation; flow of stock room transactions, sales of products and cash records; analysis of balance sheets, and financial statements; distortion and juggling of corporation financial reports; engineer's technical function in adjusting and closing entries; engineer's financial check and test units applied to the actual figures of existing utilities and industries. Prerequisite: Junior or senior standing. Mr. Woy.

104. THESIS OR ADVANCED INDIVIDUAL STUDIES. I, II; 1 to 3 cr. Individual investigation in commercial, statistical, economic or technical advanced subjects; to create investigative ability, initiative, sequential development, logical presentation, and specialized preparation in practical subjects. Meritorious reports are accepted as theses and filed in the University Library. Prerequisite: Senior standing. Mr. Woy.

105. MANUFACTURING AND PRODUCTION METHODS. I; 2 cr. Factory and shop administration and management; production scheduling and planning; dispatching and manufacturing methods. A general survey of the most suitable material, special tools and fundamental processes of manufacturing, together with the relations of the allied departments of pattern shop, foundry and machine shops. Prerequisite: Senior standing. Mr. McNaul.

106. POWER PLANT ECONOMICS AND DESIGN. II; 3 cr. Load curves, principles underlying the selection of power units; power plant layout, building design, equipment selection, estimates, operating charges, fixed charges, etc. Drawing room design and estimate of small power plant. Prerequisite: Senior standing. Mr. Hyland.

ENGINEERING CONTRACTS AND SPECIFICATIONS

DANIEL WEBSTER MEAD, C.E., *Professor of Hydraulic Engineering*
ROBERT THOMAS HOMEWOOD, B.S., *Instructor in Hydraulic Engineering*
ARNO THOMAS LENZ, B.S., *Instructor in Hydraulic Engineering*

101. CONTRACTS AND SPECIFICATIONS. II; 2 cr. Engineering relations, legal, contractual and personal; preparation of contracts, specifications and other engineering papers.

ENGINEERING ENGLISH AND ENGINEERING JOURNALISM

LESLIE FLANDERS VAN HAGAN, C.E., *Professor of Railway Engineering*

1a. ENGINEERING ENGLISH. I; 1 cr. To supplement the English work of the freshman year and to assist in maintaining standards in speech and writing throughout the last two years of the engineering course. Prerequisite: English 1b.

1b. ENGINEERING ENGLISH. II; 1 cr. Follows course 1a.

2a. ENGINEERING ENGLISH. I; 1 cr. Follows course 1b.

2b. ENGINEERING ENGLISH. II; 1 cr. Follows course 2a.

10. ENGINEERING JOURNALISM. I, II; 1 cr. Editing and managing a technical magazine.

HIGHWAY ENGINEERING AND CITY PLANNING

HAROLD FREDERICK JANDA, C.E., *Professor of Highway Engineering and City Planning, Chairman*

HIGHWAY ENGINEERING

101. HIGHWAY ENGINEERING. I; 1 cr. This course is especially planned for those students desiring a general knowledge of constructing and maintaining earth, gravel, macadam, and concrete roads. Special attention is devoted to the Wisconsin highway conditions. Mr. Janda.

102. HIGHWAY ENGINEERING. II; 3 cr. Economics; traffic census; drainage; construction and maintenance methods of the various types of road surface. Prerequisite: Railway Engr. 1. Mr. Janda.

103. ADVANCED HIGHWAY DESIGN. I; 3 cr. Special problems of an advanced nature in the construction of the modern highway. Prerequisite: Highway Engr. 102 or its equivalent. Mr. Janda.

104. HIGHWAY MATERIALS TESTING. II; 3 cr. The testing of bituminous and non-bituminous road materials. Prerequisite: Highway Engr. 102. Lab. fee $6.00. Mr. Janda, Mr. Behm.

105. HIGHWAY MAINTENANCE. I; 2 cr. Equipment depots; maintenance machinery; shoulder and ditch maintenance; methods of surface maintenance; snow-drift prevention and removal; etc. Prerequisite: Highway Engr. 102. Mr. Janda.

CITY PLANNING

101. CITY PLANNING. I, II; 2 cr. Growth of cities; land subdivision; classes and uses of streets; zoning; parks and playgrounds; regional planning. Mr. Janda.

104. MUNICIPAL ENGINEERING PRACTICE. I; 2 cr. Width and arrangement of streets; curb and gutter; sidewalks; street surface details; crowns and intersections; landing fields; trees and shrubs. Prerequisite: Topographic Engr. 103. Mr. Janda.

105. TRAFFIC CONTROL. II; 2 cr. Street systems; causes of accidents; parking; traffic signals; ordinances; administration. Prerequisite: Junior standing. Mr. Janda.

HYDRAULIC AND SANITARY ENGINEERING

DANIEL WEBSTER MEAD, C.E., *Professor of Hydraulic Engineering, Chairman*
FRANCIS MURRAY DAWSON, M.C.E., *Professor of Hydraulic Engineering*
LEWIS HANFORD KESSLER, M.S., C.E., *Assistant Professor of Hydraulic Engineering*
MERLE STARR NICHOLS, Ph.D., *Assistant Professor of Sanitary Chemistry*
ROBERT THOMAS HOMEWOOD, B.S., *Instructor in Hydraulic Engineering*
ARNO THOMAS LENZ, B.S., *Instructor in Hydraulic Engineering*

1. HYDRAULICS. I, II; 3 cr. The elementary principles of the mechanics of fluids, and the theory, calibration and use of instruments for hydraulic measurements. Recitations, lectures, and laboratory work. Prerequisite: Mechanics 1, 2. Lab. fee $3.00. Mr. Dawson, Mr. Kessler, Mr. Homewood, Mr. Lenz.

2. HYDRAULICS. I, II; 4 cr. Similar to course 1, but having additional recitation and laboratory work. Required of junior civil engineering students. Prerequisites: Mechanics 1, 2. Lab. fee $3.00. Mr. Dawson, Mr. Kessler, Mr. Homewood, Mr. Lenz.

102. TESTING OF HYDRAULIC MACHINES. I, II; 2 cr. A course designed to acquaint the student with the methods of hydraulic machine testing. Tests are made of impulse and turbine water wheels, centrifugal and reciprocating pumps, hydraulic rams, air lift pumps, etc. Laboratory work with occasional lectures and computing periods. Prerequisite: Hydr. 1 or 2. Lab. fee $5.00. Mr. Kessler.

103. EXPERIMENTAL HYDRAULICS. I, II; 1 to 5 cr. Laboratory investigation of the relation of experimental results to the theory of hydraulic machinery and of the flow of water under various conditions. The special field to be studied may be selected by the student, with the approval of the instructor. Prerequisite: Hydr. 1. Lab. fee $3.00 per credit. Mr. Dawson, Mr. Kessler.

104. WATER POWER ENGINEERING. I; 3 cr. The theory, investigation, and development of water power. Prerequisite: Hydr. 1. Mr. Mead, Mr. Homewood.

105. HYDRAULIC MACHINERY. II; 2 cr. The theory of hydraulic motors, pumps, etc., and their economic selection and installation. Prerequisite: Hydr. 1. Mr. Mead, Mr. Lenz.

110. HYDROLOGY. II; 2 cr. Water in its physical, geological, and meteorological relations as applied to water power, water supply, irrigation, drainage, and sanitary work. Mr. Mead, Mr. Dawson, Mr. Lenz.

112. DRAINAGE AND IRRIGATION. II; 2 cr. Theory, practice, and economy of sanitary and agricultural drainage, flood control, and application of water to irrigation of land. Prerequisites: Hydr. 1, 110. Mr. Mead, Mr. Homewood.

113. HYDRAULIC DESIGN. I; 2 cr. Investigation of water supply for power, irrigation or municipal purposes. Prerequisites: Hydr. 1, 110. Mr. Mead, Mr. Lenz.

114. Design of Various Features of Hydraulic or Sanitary Work. Prerequisites: Hydr. 1, 110, 113. Mr. Mead, Mr. Lenz.

115. Hydraulic Problems. II; 1–3 cr. Drawing room course for seniors and graduates in methods of analysis used on problems taken from practice. Mr. Dawson.

121. Water Supply Engineering. I; 3 cr. Theory, development, and improvement of water supplies for domestic, manufacturing, and fire service. Prerequisites: Hydr. 1, 110. Mr. Mead, Mr. Lenz.

122. Sewerage. I; 2 cr. The principles of design and maintenance of sanitary and storm sewer systems. Prerequisite: Hydr. 1, or 2, or concurrent registration. Mr. Kessler, Mr. Homewood.

123. Sewage and Garbage Disposal. II; 1 or 2 cr. Development, disposal works and methods of treatment. Additional credit may be elected, in which the student will design a treatment plant. Mr. Dawson, Mr. Homewood, Mr. Nichols.

124. Water and Sewage Analysis. I; 2 cr. Study of laboratory methods of chemical and bacterial analysis and the interpretation of results. Mr. Nichols.

125. Sewage and Trade Wastes Analysis. I, II; 1 to 3 cr. Special studies on sewage and trade wastes. Prerequisites: Chemistry 2b and junior standing. Lab. fee $5.00. Mr. Homewood, Mr. Kessler.

126. Sanitary Engineering Seminar. I; 1 cr. Review of literature on sewage and trade waste problems. Mr. Nichols.

127. Sanitary Engineering Seminar. II; 1 cr. Discussion of recent developments in sewage and trade waste disposal and in water purification. Mr. Nichols, Mr. Homewood.

MACHINE DESIGN

Patrick Henry Hyland, M.E., *Associate Professor of Machine Design, Chairman*
James Wilbur McNaul, B.S., *Assistant Professor of Machine Design*
Russell Edward Puerner, B.S., *Assistant Professor of Machine Design*

1. Machine Design. I; 4 cr. The relative motions of machine parts including linkages, cams, toothed gears, beltings, chains, and ratchets. Prerequisites: Drawing 1, 2. Mr. Hyland, Mr. Puerner, Mr. McNaul.

2. Design Practice. II; 1 cr. A short course treating of the practical consideration of machine design. Study of the use and application in design of engineering material, formulae and tabulated data, together with a discussion of factor of safety, allowable stress, etc. Prerequisite: Machine Design 1. Mr. Hyland.

3. MACHINE ELEMENTS. I, II; 4 cr. Study of the application of the principles of mechanics and empirical methods to the design of machine elements. Commercial drafting room practice. Prerequisites: Machine Design 1, Mechanics 1, 2. Mr. Hyland.

4. ADVANCED MACHINE DESIGN. I, II; 4 cr. A continuation of course 3 applied to the design of complete machines. Prerequisite: Machine Design 3. Mr. McNaul.

5. MACHINE ELEMENTS. I, II; 3 cr. For electrical and chemical engineers. A study of the mathematical and empirical methods for the design of machine parts, with a parallel drafting course conforming to the requirements of modern drafting practice. Prerequisites: Machine Design 1, Mechanics 1, 2, 3. Mr. Puerner.

12. MACHINE TESTING. II; 2 cr. Experimental determinations of the strength of machine elements and the efficiency of machines. Prerequisite: Machine Design 3. Lab. fee $6.00. Mr. Puerner, Mr. McNaul.

101. KINEMATICS AND DYNAMICS OF MACHINERY. II; 2 or 3 cr. Fundamental concepts of motion, velocity, acceleration, and equilibrium; graphical and analytical solution of velocities and accelerations in machine parts; determination of static and inertia forces in machines; combinations of static and inertia forces; effect of stress concentration and fatigue in machine parts; design of high-speed machines for strength, rigidity, balance, and lubrication; governors as to type and design. Mr. McNaul.

MECHANICS

EDWARD ROSE MAUER, B.C.E., *Professor of Mechanics, Chairman*
JESSE BENJAMIN KOMMERS, M.E., *Professor of Mechanics*
MORTON OWEN WITHEY, C.E., *Professor of Mechanics*
HARRY E. PULVER, C.E., *Associate Professor of Civil and Structural Engineering*
RAYMOND JEFFERSON ROARK, M.S., *Associate Professor of Mechanics*
LORING O. HANSON, B.S., *Instructor in Mechanics*
H. GOLDFINCH NEALE, B.S., *Instructor in Mechanics*
NOLAN PAGE, B.S., *Instructor in Mechanics*
DAN HENRY PLETTA, B.S., *Instructor in Mechanics*
KURT FRANK WENDT, B.S., *Instructor in Mechanics*

1. STATICS. I, II; 3 cr. Treated, as are all of the following courses, with special reference to the requirements of engineers. Prerequisite: Physics 51. First nine weeks of each semester.

2. DYNAMICS. I, II; 2 cr. Prerequisites: Mechanics 1; Mathematics 55, or concurrent registration. Last nine weeks of each semester.

3. MECHANICS OF MATERIALS. I, II; 5 cr. Prerequisites: Mechanics 1; Mathematics 55, or concurrent registration.

The following four courses are principally laboratory work; assigned readings and reports; and preparation and manufacture of materials.

51. MATERIALS OF CONSTRUCTION. I; 2 cr. Prerequisite: Mechanics 3 or concurrent registration. For civil engineers. Lab. fee $6.00.

52. MATERIALS OF CONSTRUCTION. II; 2 cr. Continuation of 51. Lab. fee $6.00.

53. MATERIALS OF CONSTRUCTION. I, II; 2 cr. Prerequisite: Mechanics 3 or concurrent registration. For electrical, mechanical, and mining engineers. Lab. fee $6.00.

54. MATERIALS OF CONSTRUCTION. II; 2 cr. Prerequisite: Mechanics 3 or concurrent registration. For chemical engineers. Lab. fee $6.00.

106. ADVANCED MECHANICS OF MATERIALS. I; 3 cr. Some topics (curved beams, flat plates, thick cylinders, springs, etc.) and methods of analysis not included in Mechanics 3. Prerequisites: Mechanics 2 and 3. Mr. Maurer.

107. ADVANCED TECHNICAL MECHANICS. I; 3 cr. Especially dynamics of machinery; vibrations; balancing; gyroscopic effects; whirling shafts; critical speeds. Prerequisite: Mechanics 2. Mr. Maurer.

108. MATERIALS OF CONSTRUCTION. II; 2–5 cr. Laboratory research on the various materials. Research on concrete, plain and reinforced. Prerequisite: Mechanics 51 and 53. Lab. fee $3.00 per cr. Mr. Withey.

109. GRAPHICS. II; 2 cr. A development of the principles of graphical computation and construction of graphic charts. Application is made to various engineering problems, including representation of experimental data. Mr. Kommers.

110. DYNAMIC STRESS. II; 2 cr. Stress and strain due to impact and sudden loading; inertia stresses in moving bodies; impact tests. Prerequisites: Mechanics 1, 2, and 3. Mr. Roark.

MINING AND METALLURGY

RICHARD STANISLAUS MCCAFFERY, E.M., *Professor of Mining and Metallurgy, Chairman*
SCOTT MACKAY, M.S., *Associate Professor of Metallurgy*
EDWIN ROY SHOREY, E.M., *Associate Professor of Mining and Metallurgy*
GEORGE JOHN BARKER, E.M., *Assistant Professor of Mining and Metallurgy*
JOSEPH FRANCIS OESTERLE, M.S., Ph.D., *Research Assistant Professor of Metallurgy*

12. MINE SURVEYING. II; 2 cr. Classroom and drafting room study of the methods of surface and underground mine surveying, including shaft plumbing, underground practice, open-pit tonnage, progress, and final estimates. Followed by a week's survey of a zinc mine in southwest Wisconsin, or a nearby Wisconsin iron mine. Prerequisite: T.E. 108. Lab. fee $3.00. Mr. Shorey.

126. CLAY PRODUCTS MANUFACTURE. I, II; 2 or 3 cr. Lectures and laboratory work. Clay testing, brick, tile, and ceramics manufacture. The making of Portland cement. Lab. fee $3.00 per credit. Mr. Barker.

150. ECONOMIC ASPECTS OF MINING. II; 3 cr. The mining industry. Mineral resources and recovery. Mining and finance. Typical mining organizations. For students in economics and commerce and colleges other than engineering, of junior, senior, or graduate rank. Mr. McCaffery.

MINING

101. EXCAVATION AND TUNNELING. I; 3 cr. Earth excavation; support of excavation, railway grading, canal and submarine excavation, irrigation and drainage channels, methods and cost. Steam shovels and mechanical excavators. Explosives; their chemical and physical natures, selection, and use. Rock drills; rock excavation; tunneling; mine tunnels, hard and soft ground. Railway tunnels; in rock, in loose earth. Irrigation tunnels. Freezing processes, shields and caissons. Prerequisites: General chemistry and physics. Mr. Shorey.

103. MINING METHODS. Yr; 3 cr. I—Classroom study of boring; various methods of prospect drilling and the compilation of results. Shaft sinking, underground prospecting and exploration development and methods of surface and underground mining ore, coal placer and other mineral deposits. II—Classroom and drafting room design of a method of mining a selected ore-body from actual drilling records. Mr. Shorey.

104. VALUATION OF MINERAL PROPERTIES. II; 3 cr. Preliminary and detailed examination and reports. Prospecting and sampling of mineral properties. Construction and use of sample-maps and assay-plans. Valuation of metal, coal, and other mineral properties. Decline, ultimate production, and valuation of oil properties. Mine taxation. Prerequisite: Mining 103. Mr. Shorey.

105. MINE ENGINEERING. Yr; 3 cr. Drainage, control, and removal of mine water. Ventilation, lighting, haulage, hoisting, mechanics and methods of hoisting, including regenerative systems. Mine signal systems, underground power installations. Surface plant; power generation and transmission; building, roads, water supply housing, mine accidents, safety, rescue, and recovery. Lectures, quiz. Prerequisites: Mining 103, Mechanics 1, 2. Mr. Shorey.

106. MINE PLANT DESIGN. II; 3 cr. Design of mine plant, selection of equipment, including surface, power, and hoisting equipment, ventilating fans and haulage systems. Underground hoisting and pumping stations. Ore-pockets, mine pumps, and ore-handling equipment. Drafting room design. Prerequisites: Mining 101, 103, 104, 105. Mr. Shorey.

107. ORE DRESSING AND COAL WASHING. I; 5 cr. Principles and practice of ore-dressing; preliminary breakers, and secondary crushers. Fine grinding and stamp-milling, sizing, screening and classifying. Concentration, jigging, tabling, slime concentration, log washing, magnetic and electro-static separation. Oil flotation. All sliming processes. Mechanical engineering of concentrators. Coal breakers and washers. Economic limits of concentration. Lectures, quiz, and laboratory practice. Prerequisites: Mining 103, Geology 6. Lab. fee $6.00. Mr. Shorey.

108. MILLING PLANT DESIGN. II; 3 cr. The design of a mill to treat a Wisconsin zinc ore. The design and selection of equipment, including crushers, jigs, screens, elevators, and flotation equipment. Water supply and power-plant. Building construction. Drafting design. Prerequisites: Mining 105, 107. Mr. Shorey.

109. MINE AND SMELTER ORGANIZATION, ADMINISTRATION, AND ACCOUNTS. II; 3 cr. The principles of administration applied to mines, mills, and smelters and their organizations. Labor supply and management. Wage system. Mine accounting, including a set of reports and financial statements of a month's operation of a typical mine and smelter. Home office accounts. Cost keeping. Ore sales and contracts. Lectures, quiz. Mr. McCaffery.

121. ASSAYING. II; 3 cr. Lectures and laboratory practice covering the fire assay of ores, mattes, bullion, and other metallurgical products, using carefully checked ores, and smelter products from American and Canadian operations. Prerequisite: Chemistry 2. Lab. fee $10.00. Mr. Barker.

210. ADVANCED ORE-DRESSING LABORATORY. I, II; 2 to 5 cr. Detailed research with a view to discovery of a method of treating a selected ore. The particular application of one or more of the principles of ore-dressing, covered in outline by Mining 107. Individual investigation. Lab. fee $3.00 per credit. Mr. Shorey.

215. MILL DESIGN. II; 5 cr. The complete design of a mill to treat a selected ore on a tonnage basis. Especial emphasis is placed upon economic recoveries, methods and costs. A development of the work covered in courses 107 and 108. Individual design. Mr. Shorey.

220. MINE DEVELOPMENT. I; 5 cr. A study of a prospected ore-body to determine economic method of mining and probable cost. A careful consideration of extraction and various methods of mining. Supporting systems and development ratios. Individual solution. Mr. Shorey.

METALLURGY

122. PRINCIPLES OF METALLURGY. II; 3 cr. The statics, kinetics, and thermodynamics of metallurgy. Chemical equilibrium, affinities, reaction velocities illustrated in the common metallurgical processes. Prerequisite: Chemistry 2. Mr. McCaffery.

130. PHYSICAL CHEMISTRY OF THE METALS. I; 2 cr. The underlying principles of physical metallurgy. The use of chemical statics as applied to metallurgical processes and smelting operations. Development of the principles of equilibrium in binary, ternary and quaternary systems. Lectures, quiz. Mr. Oesterle.

225. METALLURGICAL LABORATORY. I, II; 2 to 5 cr. Detailed research problems covering selected metallurgical processes. The particular application of one or more of the metallurgical principles outlined by courses 122, 124. Lab. fee $3.00 per credit. Mr. McCaffery, Mr. Mackay.

230. ADVANCED PHYSICAL CHEMISTRY OF THE METALS. An advanced treatment of the principles of physical metallurgy, and the direct application of these principles to metallurgical practice. Mr. Oesterle.

235. THERMODYNAMICS OF METALLURGICAL REACTIONS. Yr; 3 or more cr. Mr. McCaffery.

245. PHASE RULE APPLIED TO METALLURGY. A study of phase equilibrium in metal systems. The importance of allotropic forms, the interpretation of equilibrium diagrams, and a comprehensive recognition of meta-stability. Mr. Mackay.

IRON AND STEEL METALLURGY

124. METALLURGY OF IRON AND STEEL. I, II; 3 cr. The iron blast furnace, bessemer, open-hearth, and electric furnace steel processes. Principles of design of furnaces and accessory apparatus. Control of furnace operation and product. Re-heating, rolling, rolling mills, forging, hammers and presses, alloy steels, standard specifications, inspection methods. Prerequisites: General chemistry and physics. Mr. McCaffery.

128. IRON AND STEEL LABORATORY. Yr; 2 or 3 cr. I—The physical properties and structure of low and medium carbon steels as affected by their heat-treatment and mechanical treatment. II—The construction and effects of acid, neutral and basic oxidizing and reducing slags. Prerequisite: Mining 124 or concurrent registration. Lab. fee $3.00 per credit. Mr. Mackay.

131. FOUNDRY METALLURGY. II; 2 cr. The properties of gray iron, foundry raw materials, the cupola and air furnace. The properties of cast steel. Converter, open hearth and electric furnace castings. The properties and production of malleable iron. Lectures, quiz. Mr. McCaffery.

132. MANUFACTURE OF COKE. I; 2 cr. The preparation of coal for coking. The coking process in bee-hive and by-products ovens. The recovery of by-products. Lectures, quiz. Mr. McCaffery.

140. HEAT TREATMENT OF SOFT AND MEDIUM STEELS. II; 2 cr. A study of the iron-carbon system based upon the diffusion of carbon and other soluble contained substances. A systematic discussion of the commercial heat treatment of forged and rolled steels. Mr. Oesterle.

231. THE IRON BLAST FURNACE. I; 5 cr. The construction of the furnace and accessory apparatus. The reactions in the furnace and factors influencing control of the process are taken up in lectures and problems in furnace design are worked out in the drafting room. Mr. McCaffery.

232. CONVERTER AND OPEN-HEARTH STEEL. II; 5 cr. The chemistry of the refining processes. The order of reaction as affected by temperature, the various factors which enter into the control of the process, and the quality of the product are studied in lectures; and in the drawing-room the principles entering into the design of the converter and open-hearth plant are applied in the solution of practical problems. Mr. McCaffery.

250. PROPERTIES AND MANUFACTURE OF GRAY IRON CASTINGS. Yr; 3 cr. Mr. McCaffery, Mr. Mackay.

255. PROPERTIES AND MANUFACTURE OF STEEL CASTINGS. Yr; 3 cr. Mr. McCaffery, Mr. Mackay.

METALLURGY OF GOLD, SILVER, COPPER, LEAD, ZINC AND MINOR METALS

123. METALLURGY OF COPPER, LEAD, AND ZINC. I; 3 cr. The blast and reverberatory processes for copper; the treatment of furnace products, converting matte and refining reverberatory, ore-hearth and blast furnace processes for lead; sinter roasting, disilverization of base bullion. Roasting and distillation processes for zinc. Lectures, quiz. Mr. Barker.

125. METALLURGY OF MINOR METALS. II; 3 cr. The metallurgy of tin, nickel, aluminum, mercury, cadmium, bismuth, and antimony. Recovery of metal from by-products and secondary sources. Lab. fee $3.00. Mr. Barker.

127. HYDROMETALLURGY OF GOLD, SILVER, COPPER, LEAD, AND ZINC. Yr; 3 cr. I—Classroom and laboratory study of the hydrometallurgy of gold and silver. Amalgamation. Cyanidation and chlorination of the ores of noble metals. Electrolytic refining of dorè bullion. Refining of cyanide precipitate. II—Classroom and laboratory study of the hydrometallurgy of copper, lead and zinc. Sulphatizing and chloridizing roasts, leaching, precipitation. Regeneration of solutions, refining precipitates, accessory equipment and process. Electrolytic zinc and lead. Lab. fee $3.00. Mr. Barker.

133. FIRE METALLURGY LABORATORY, COPPER, LEAD, AND ZINC. I; 3 cr. Laboratory investigation of processes covered in outline in course 123. Copper blast and converter practice. Lead blast furnaces. Refining metals. Prerequisite: Mining 123 or concurrent registration. Lab. fee $9.00. Mr. Barker.

240. LABORATORY RESEARCH IN COPPER, LEAD, AND ZINC METALLURGY. An advanced study of methods of reduction of the metals covered in outline by courses 123, 125, 127, 133. Investigation of processes, selection of equipment, plant design. Economics of smelting. Individual solution. Lab. fee $3.00 per credit. Mr. Barker.

UNNUMBERED COURSES

WESTERN MINE INSPECTION TRIP. Summer work. A six-week inspection trip, visiting several of the more important mining and metallurgical centers of the United States and Canada. Required for graduation. Should be taken after the junior year. Mr. Shorey.

FIRST AID TRAINING. A week's intensive training in first aid methods for miners. Given in conjunction with the United States Bureau of Mines. Required for graduation. Taken in the junior year.

MINE RESCUE TRAINING. A week's intensive training in mine rescue and recovery methods using oxygen breathing apparatus. Given in conjunction with the United States Bureau of Mines. Required in the senior year.

ANNUAL FOUNDRY CONFERENCE. In addition to the regular courses conducted by the Department of Mining and Metallurgy, an annual foundry conference is conducted during the week of February 1 under the joint auspices of the department and the Extension Division of the University. At this conference those engaged in the foundry industry—managers, superintendents, research experts, foremen, etc.—present their problems and discuss them in round table meetings under the leadership of prominent men in the industry. Discussions on cupola practice, sand conditioning, metallography, cost accounting, routing and planning, malleable castings, steel castings, aluminum and light metal castings, heat treatment of steel, sand testing, bronze and brass castings, and defects in castings are features of the conference. In addition to the discussions, laboratory tests and demonstrations are organized. While this work was developed for the industry in Wisconsin, an equally large attendance from outside the state is a regular feature.

RAILWAY ENGINEERING

LESLIE FLANDERS VAN HAGAN, C.E., *Professor of Railway Engineering, Chairman*
GERALD CHARLES WARD, B.S., *Instructor in Railway Engineering*

1. RAILWAY CURVES. I, II; 2 cr. The computation and field location of simple, compound, and spiral curves and railway turnouts. Prerequisites: Trigonometry, elementary surveying. Mr. Van Hagan, Mr. Ward.

2. THEORY OF RAILWAY LOCATION AND CONSTRUCTION. I; 3 cr. Recitations, lectures, and problems. Prerequisite: Railways 1. Mr. Van Hagan, Mr. Ward.

22. PRACTICE IN RAILWAY LOCATION AND CONSTRUCTION. Two weeks, at the close of the second year, spent in field and office practice. Prerequisites: Railways 2 and Topographic Engineering 2. Registration fee $9.00; lab. fee $3.00. Mr. Van Hagan, Mr. Ward.

101. MASONRY CONSTRUCTION. II; 2 cr. Theory governing the design and construction of masonry structures. Prerequisites: Mechanics 3, 51. Mr. Van Hagan, Mr. Ward.

105. ENGINEERING ECONOMICS. I; 2 cr. The theory underlying the economic selection of materials of construction, methods of doing work, and types of structures. Elective for junior and senior engineers. Mr. Van Hagan.

107. ADVANCED RAILWAY DESIGN. I, II; 2 cr. Special problems of an advanced nature, together with studies and discussions of matters of current interest in connection with railway engineering. Elective for seniors and graduate students. Mr. Van Hagan.

111. SUBSTRUCTURES. II; 1 cr. Ordinary and deep foundation work; lectures and problems. Prerequisite: Railways 110. Mr. Van Hagan.

112. ESTIMATES. II; 2 cr. Practice in scaling quantities and preparing estimates of cost. Prerequisite: Junior standing. Mr. Van Hagan.

ROADS AND PAVEMENTS

See Highway Engineering and City Planning, page 280.

SHOP LABORATORIES

JAMES MORGAN DORRANS, *Assistant Professor of Mechanical Practice, Superintendent*
RICHARD REX BELL, *Instructor in Mechanical Practice*
BERT BERNARD BRIDGE, *Instructor in Mechanical Practice*
JOHN B. CLULEY, B.S., *Instructor in Mechanical Practice*
GEORGE DAVID HITCHCOCK, *Instructor in Mechanical Practice*
NICHOLAS FRANCIS HOLLANDER, *Instructor in Mechanical Practice*
CHARLES FREDERICK PETERS, *Instructor in Mechanical Practice*
THOMAS PUDDESTER, *Instructor in Mechanical Practice*
ROBERT NICHOLAS SCHUMANN, *Instructor in Mechanical Practice*
GEORGE FRANCIS YOUNG, *Instructor in Mechanical Practice*

1. ELEMENTARY PATTERN MAKING. I, II; 1 cr. Bench and lathe work in wood. Principles of molding and core making. A knowledge of common woods. Fee $3.00. Mr. Hollander.

2. BENCH WORK, FORGE, AND WELDING. I, II; 1 cr. Instruction in the use of bench metal tools, acetylene and electric welding, splicing, soldering and drill press work, pipe fitting, welding, tempering and brazing. Fee $3.00. Mr. Schumann, Mr. Peters.

4. LATHE WORK IN METALS. I, II; 1 cr. Turning, boring, and thread cutting. Experience in working various metals. Fee $3.00. Mr. Bell, Mr. Hitchcock, Mr. Puddester.

5. PLANING, SHAPING, AND MILLING. I, II; 1 cr. Surfacing, slotting and gear cutting. Fee $3.00. Mr. Bell, Mr. Hitchcock, Mr. Puddester.

6. TOOL MAKING. I; 2 cr. Making and tempering taps, reamers, counterborers, turret lathe tools, etc. Prerequisites: Shop 4, 5. Fee $6.00. Mr. Bell, Mr. Hitchcock, Mr. Puddester.

7. GENERAL SHOP WORK. I; 2 cr. Manufacturing machines, gas engines, etc. Turret lathe practice. Production methods. Prerequisites: Shop 2, 4, 5, 6. Fee $6.00. Mr. Bell, Mr. Hitchcock, Mr. Puddester.

8. ADVANCED SHOP PROBLEMS. II; 2 to 4 cr. Prerequisite: Shop 7. Fee $3.00 per credit. Mr. Bell, Mr. Hitchcock, Mr. Puddester.

9. ADVANCED PATTERN MAKING. II; 1 cr. Building up patterns and core boxes, skeleton construction, type patterns for molding machine work. Prerequisite: Shop 1. Regularly for seniors only. Fee $3.00. Mr. Hollander.

10. INDUSTRIAL OR MECHANICAL PRACTICE. Not less than six weeks of work, performed outside the University, in a shop with a well-developed system of methods pertaining to the manufacture, building, or making general repairs of machinery, machine parts, or metal products. Application for credit must be made upon a form furnished by the adviser, and accompanied by credentials stating the length of service, kind of work and any other pertinent information necessary for granting of this credit by the Mechanical Engineering Course Committee.

11. ELEMENTARY SHOP WORK. I, II; 2 cr. Elementary pattern making, bench metal work, forging, and welding. For freshman electricals only. Mr. Hollander, Mr. Peters, Mr. Schumann.

12. ADVANCED SHOP WORK. II; 2 cr. Lathe work in various metals, shaping, drillpress work, assembling. For sophomore electricals only. Mr. Bell, Mr. Hitchcock, Mr. Puddester.

13. ELEMENTARY FOUNDRY PRACTICE. I, II; 1 cr. Bench molding, floor molding, and machine molding, cupola practice, core making. Fee $3.00. Mr. Bridge, Mr. Young.

14. ADVANCED FOUNDRY PRACTICE. II; 2 cr. Cupola practice, bench and floor work, bronze and white metal alloys. Skin drying and sweep work. Elective for junior and senior engineers. Fee $6.00. Mr. Bridge, Mr. Young.

15. GENERAL FARM CARPENTRY. I, II; 1 or 2 cr. Elective for junior and senior engineers. Fee $3.00. Mr. Cluley.

108. WELDING. II; 2 cr. Acetylene and electric arc welding. Elective for graduates and undergraduates. Fee $6.00. Mr. Peters, Mr. Schumann.

STEAM AND GAS ENGINEERING

GUSTUS LUDWIG LARSON, M.E., *Professor of Steam and Gas Engineering, Chairman*
LEROY ALONZO WILSON, M.E., M.M.E., *Associate Professor of Steam and Gas Engineering*
DELMAR WOOD NELSON, M.E., *Assistant Professor of Steam and Gas Engineering*
GROVER C. WILSON, M.S., M.E., *Assistant Professor of Steam and Gas Engineering*

CHESTER JOHNSON BRAATZ, M.S., *Instructor in Steam and Gas Engineering*
EINAR THEODORE HANSEN, B.S., *Instructor in Steam and Gas Engineering*
REED ALDEN ROSE, M.S., *Instructor in Steam and Gas Engineering*
RICHARD ADELBERT TROTTER, M.S., *Instructor in Steam and Gas Engineering*

1. THERMODYNAMICS. I; 4 cr. A study of the laws of heat and memechanical energy and their application to air compressors and external and internal combustion engines, followed by a study of fuels and theoretical combustion. Prerequisites: Physics 51, 52; Mathematics 54, 55. Required of junior mechanical engineers. Mr. L. A. Wilson, Mr. G. C. Wilson.

2. THERMODYNAMICS. II; 4 cr. Continuation of S. and G. 1. A study of the laws of vapors and their application to various types of steam engines and turbines, with special attention to the economy and efficiency of various designs of such prime movers. This is followed by the principles of combustion, boilers, power plant auxiliaries, and refrigerating machinery. Prerequisite: S. and G. 1. Mr. L. A. Wilson, Mr. G. C. Wilson.

3. THERMODYNAMICS. I; 3 cr. A course in the theory and principles underlying heat engines. This course is similar to course 1 except the study of fuels is replaced by the thermodynamics of vapors. Prerequisites: Physics 51, 52, 53, or 54; Mathematics 54, 55. Required of junior electrical and chemical engineering students. Mr. Nelson, Mr. Rose, Mr. Trotter, Mr. Braatz.

4. THERMODYNAMICS. II; 3 cr. Continuation of S. and G. 3. This course is similar to course 2 except fuels are studied in place of the thermodynamics of vapors. Prerequisite: S. and G. 3. Mr. Nelson, Mr. Rose, Mr. Trotter, Mr. Braatz.

7. THERMODYNAMICS FOR CIVIL ENGINEERS. II; 2 cr. A very abbreviated course in the thermodynamics of gases and vapors and their application to the more important types of steam engines, gas engines, and boilers. Prerequisites: Physics 51, 52; Mathematics 54, 55. Required of junior civil engineers. Mr. Nelson.

100. SENIOR THESIS. I, II; 1–5 cr. May be elected by seniors in Mechanical Engineering.

105. STEAM AND GAS ENGINE CALCULATIONS. I; 2 cr. A course devoted to the calculations used in practice for determining size and the more important details of steam engines, boilers, condensers, cooling towers, etc. Problems are assigned and discussed and solved in the drawing room. Prerequisites: S. and G. 1 and 2, or 3 and 4. Required of senior mechanical engineers. Mr. Larson.

106. STEAM TURBINE CALCULATIONS. II; 2 cr. This study covers theory and elements of design of steam turbines, also practical problems relating to turbine operation. Prerequisites: S. and G. 1 and 2, or 3 and 4. Mr. Larson.

108. HEATING AND VENTILATING. I, II; 3 cr. The principles and the theory of modern systems of heating and ventilating buildings of various types, accompanied by problems involving the design and specifications for such systems. Prerequisites: S. and G. 1 and 2, 3 and 4, or 7. Mr. Larson.

109. INTERNAL COMBUSTION ENGINES. I; 2 cr. The theory and design of gas, gasoline, and fuel oil engines; also such details as carburetion, fuel injection, and ignition. Prerequisites: S. and G. 1 and 2, or 3 and 4. Mr. G. C. Wilson.

110. ADVANCED HEATING AND VENTILATING PROBLEMS. I, II; 2 cr. Special problems taken from heating and ventilating consulting practice. Prerequisite: S. and G. 108. Mr. Larson.

112. REFRIGERATION. II; 2 cr. The theory and principles of refrigeration, including a study of the selection of equipment, the design and specifications of systems, and the properties of various working substances. Prerequisite: S. and G. 2 or 4. Mr. Larson.

114. THEORY OF HEAT TRANSFER. II; 2 cr. The theory and design of heat transfer apparatus. This covers heaters and condensers as well as cooling systems for motors or electric generators. Prerequisite: Steam and Gas 2 or 4. Mr. G. L. Larson.

180. SPECIAL READING PROJECT. I, II; 1–3 cr. This course covers some special problem. It may be a commercial investigation, a library study, or a combination of the two. Prerequisite: S. and G. 2 or 4.

LABORATORY COURSES

MR. G. C. WILSON and Laboratory Instructors

22. ELEMENTARY TESTING. II; 2 cr. Calibration of instruments, valve setting, and the determination of the efficiencies and characteristics of simple heat engines. Gas and fuel analysis. Prerequisite: Registration in Steam and Gas 2. Required of juniors in mechanical engineering. Lab. fee $8.00, including Laboratory manual.

23. ADVANCED TESTING OF HEAT ENGINES. I; 2 cr. Continuation of course 22, covering more complex types of heat engines, including refrigerating machinery, steam turbines, boilers and power plants. Required of seniors in mechanical engineering. Lab. fee $6.00.

25. ELEMENTARY TESTING. II; 2 cr. Calibration of instruments and the adjustments of simple heat engines. Also, the determination of the efficiencies, losses, and characteristics of simple heat engines, turbines, and internal combustion engines. Prerequisite: Registration in S. and G. 4 or 7. Required of juniors in chemical engineering. Laboratory fee $8.00, including Laboratory manual.

26. ADVANCED TESTING OF HEAT ENGINES. I; 1 cr. Continuation of course 25, covering more complex types of heat engines, including air compressors, refrigeration machinery, boiler plant, and Diesel engine tests; also air measurement. Required of seniors in chemical engineering. Laboratory fee $3.00.

28. ELEMENTARY TESTING. II; 2 cr. Same as S. and G. 25. Prerequisite: Registration in S. and G. 4 or 7. Required of juniors in electrical engineering. Laboratory fee $8.00, including Laboratory manual.

29. ADVANCED TESTING OF HEAT ENGINES. I; 1 cr. Continuation of course 28, covering more complex types of heat engines including air compressors, refrigeration machinery, boiler plant, and Diesel engine tests. Gas and fuel analysis. Required of seniors in electrical engineering. Lab. fee $3.00.

124. ADVANCED ENGINEERING TESTING. II; 1 cr. Continuation of S. and G. 23. Special tests of heat engines, air compressors, gas producers and engines, power plants, and other commercial tests. Required of seniors in mechanical engineering. Prerequisite: S. and G. 23. Lab. fee $3.00.

127. HEAT ENGINE TESTING. I; 2 cr. Calibration of instruments, adjustment, determination of losses and efficiencies of heat engines, including the principal types of steam and internal combustion engines and including power plant and refrigeration plant tests. Prerequisites: S. and G. 7, or 3 and 4. Required of seniors in civil engineering. Lab. fee $8.00, including Laboratory manual.

128. HEATING AND VENTILATING LABORATORY. II; 2 cr. Covers the calibration of heating and ventilating instruments, checking the efficiencies of ventilating systems and air conditioners, comparative tests of unit heaters, and a supply of methods for determining air infiltration into buildings. Prerequisite: Completion of a beginning S. and G. laboratory course. Lab. fee $6.00.

130. INTERNAL COMBUSTION ENGINE LABORATORY. II; 2 cr. The calibration and comparison of high speed pressure indicators, the study of air fuel mixtures, efficiency and power tests on motors including aeroplane and automobile engine tests with an electric dynamometer. Prerequisite: Completion of a beginning S. and G. laboratory course. Lab. fee $6.00.

151. ADVANCED STEAM AND GAS PROBLEMS. I; 1 to 3 cr. Research or practical problems which can be worked out in the Steam and Gas Laboratory. The student may select his own project and is allowed to work it out on his own initiative with periodic faculty conferences. Prerequisite: Completion of a beginning S. and G. laboratory course. Lab. fee is $3.00 per credit.

152. ADVANCED STEAM AND GAS PROBLEMS. II; 1 to 3 cr. May be a continuation of the project started in course 151 or it may be an entirely different project. The course covers similar problems worked out in the same manner as in S. and G. 151. Prerequisite: Same as for S. and G. 151. Lab. fee is $3.00 per credit.

200. GRADUATE RESEARCH. I, II; 3 to 5 cr. This course covers the major research projects which are carried on for credit toward advanced degrees. Prerequisite: Graduate standing in Engineering. Lab. fee is $3.00 per credit.

STRUCTURAL ENGINEERING

FREDERICK EUGENE TURNEAURE, C.E., D.Eng., *Dean of the College of Engineering*

WILLIAM SPAULDING KINNE, B.S., *Professor of Structural Engineering, Chairman*

WILLARD SHERWIN COTTINGHAM, B.S., *Instructor in Structural Engineering*

2. BRIDGE STRESSES. II; 4 cr. Simple bridge stresses. Four recitations. Prerequisite: Mechanics 1. Mr. Kinne, Mr. Cottingham.

3. BRIDGE DESIGN. I; 3 cr. Roof trusses and plate girders. Prerequisites: Struct. Engr. 2, Mechanics 3. Mr. Kinne, Mr. Cottingham.

4. BRIDGE DESIGN. II; 2 cr. Riveted and pin-connected trusses. Prerequisites: Struct. Engr. 2, 3. Mr. Kinne, Mr. Cottingham.

10. STRUCTURAL DESIGN. I, II; 2 cr. A short general course in the designing of roofs and buildings designed for students in mechanical, electrical, and mining engineering. Prerequisites: Mechanics 1, 3. Mr. Kinne, Mr. Cottingham.

105. REINFORCED CONCRETE. I; 3 cr. Principles of reinforced concrete construction; analysis and problems in design. Prerequisites: Mechanics 1, 3. Mr. Turneaure, Mr. Kinne, Mr. Cottingham.

106. REINFORCED CONCRETE. I; 2 cr. Design and analysis of reinforced concrete arches. Prerequisites: Mechanics 1, 3. Mr. Kinne.

107. BRIDGE STRESSES. I; 3 cr. Statically indeterminate structures. Analysis of swing, cantilever, arch, and suspension bridges. Prerequisite: Struct. Engr. 2. Mr. Kinne.

108. BRIDGE STRESSES. II; 2 cr. Advanced theory and experimental work. Secondary stresses in framed structures. Tests on bridges under moving loads. Prerequisites: Struct. Engr. 2, 107. Mr. Turneaure.

109. BRIDGE DESIGN. II; 2 cr. Swing bridges. Design of truss turntable, and operating machinery for railway swing bridges. Prerequisites: Struct. Engr. 2, 3, 4, 107. Mr. Kinne.

111. REINFORCED CONCRETE. II; 2 cr. Analysis and problems in design. A continuation of Struct. Engr. 105, which is prerequisite. Mr. Kinne.

112. HIGHWAY BRIDGES AND CULVERTS. II; 2 cr. Design and analysis of highway bridges and culverts. Elective for senior civil engineers and graduates in civil engineering. Prerequisites: Struct. Engr. 2, 3, 4, 105. Mr. Kinne.

213. SPECIAL PROBLEMS. I, II; 1 to 3 credits. Special problems in the analysis of higher structures. Mr. Turneaure, Mr. Kinne.

TOPOGRAPHIC ENGINEERING

RAY SPRAGUE OWEN, B.S., *Associate Professor of Topographic Engineering, Chairman*

1. ELEMENTARY SURVEYING. I; 2 cr. The work consists of the practice and theory of pacing, taping and leveling. Lab. fee $4.50. Mr. Owen.

2. ELEMENTARY SURVEYING. II; 2 cr. A continuation of course 1 including the field and office work of a variety of practical problems in the adjustment and use of the engineer's level, compass, and transit. Lab. fee $4.50.

3. LAND SURVEYING. I; 3 cr. The field work consists of the adjustment and use of the transit, sextant, and plane table in problems relating to land surveying and the making of a city plat. In class the theory involved in above field work is covered, including effect on results, of lack of adjustment, and instrumental inaccuracies, and their elimination, also the methods used in original land and city surveys and resurveys. Practice is given in the computation arising from the common problems of land surveying. Special emphasis is placed on methods of computation and arrangement of data. The office work of platting the field notes and making finished maps follows the field work. Prerequisites: T. E. 2 and trigonometry. Lab. fee $3.00. Mr. Owen.

104. ADVANCED SURVEYING. II; 3 cr. Mining, topographic, and hydrographic surveying, steam gauging, and field astronomy. The classroom work includes the methods and computation relating to above subjects while the field work consists of solar and stellar observations, and topographic surveys, with finished maps. Prerequisite: T. E. 3. Lab. fee $4.50. Mr. Owen.

106. SUMMER SURVEY CAMP. Four weeks at the close of the school year are spent in the field and office practice while in camp at Devils Lake, Wisconsin. An area of several square miles is surveyed and mapped, based upon a careful triangulation with base line measurement. In addition students carry on both river and lake surveys, including the gauging of the Baraboo River, both by current and rod floats. The survey begins the week preceding Commencement and is required of all civil engineers. Prerequisite: T. E. 104 or its equivalent. (Six weeks with Railways 22.) Average cost to student $100.00 for six weeks, including fees, board, and spending money. Mr. Owen, Mr. Wesle, and instructors.

108. SHORT COURSE IN SURVEYING. I, II; 3 cr. Planned to meet the demands of electrical and mechanical engineering students for a general study of the subject, including the use of transit, level, and tape, and the principles of topographic, hydrographic, and land surveys, also the drawing of profiles and computation of areas. Prerequisite: Trigonometry. Reserved for sophomore electrical engineers the first semester. Open to all qualified students the second semester. Lab. fee $4.50.

109. RAPID TOPOGRAPHY SUMMER CAMP. Adapted for training topographers for the United States Geological Survey. Practice is had in the use of the plane table in the sketching of topography. Prerequisite: T. E. 106. Registration and lab. fee $5.00 per credit.

THE COLLEGE OF AGRICULTURE

H. L. RUSSELL, DEAN

PLAN OF THE COLLEGE

The work of the College is conducted on a three-fold basis. Each department aims:

First, to give instruction to students at the University;

Second, to develop science through investigation and experiment;

Third, to disseminate information among the farmers and farm women of the state by means of publications, farmers' courses, institutes, and the agricultural extension service.

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 the College of Letters and Science; but for the purely agricultural and home economics subjects, separate buildings, equipment, and staff of instructors are maintained. Students at this college have 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.

EQUIPMENT

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 and 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 primarily for general assemblies.

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, a laboratory for the smaller farm tools and implements, and a concrete construction laboratory.

The Departments of Agricultural Chemistry and Genetics are located in the Agricultural Chemistry Building. It contains large laboratories, and an assembly room with seating capacity of 400, in addition to special laboratories for advanced students and the chemistry laboratories of the Experiment Station, including those of the feed and fertilizer inspection service.

The Department of Home Economics is located in the Home Economics Building, where offices, classrooms, and laboratories are provided, and in the practice cottage where the work in household administration, house decoration, and dietetics has ample scope for practical solution. The department is provided with all the necessary furnishings and apparatus to give thorough instruction in the subjects of house sanitation, art and design, food preparation, dietetics, textiles, sewing, dressmaking, house decoration, and institutional economics.

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 amphitheater seats there are stalls for the housing of horses belonging to the University Farm. In addition to this there are offices, operating room, and dispensary for Veterinary Science.

The Poultry Building provides offices and classrooms. Pens of all of the important breeds are provided and practical instruction is given in all lines of poultry raising. A separate research poultry plant is maintained on an outlying portion of the University Farm. The Economic Entomology Department has a building by itself.

The University Farm buildings include barns for the horses, cattle, sheep, and swine as well as two large stock judging rooms. Other buildings are provided for storing farm machinery, silage, manure, and tobacco.

A group of small buildings formerly devoted to the manufacture of hog cholera serum is now being used for the testing of commercial serums and for investigational work in diseases of livestock.

LIBRARY

The Agricultural College Library includes about 30,000 bound volumes and 25,000 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 and assistants are in attendance to aid students.

FARM LANDS

The College of Agriculture is provided with four farms, the University Farm, Eagle Heights Farm, Gregg Farm, and the Hill Farm, totalling about 846 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.

COURSES OF INSTRUCTION

GRADUATE COURSES offer to advanced students opportunities for professional training and original investigation, made possible through an active Experiment Station, associated with numerous scientific laboratories. The special lines of study in agriculture and home economics are 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 COURSE IN AGRICULTURE OR HOME ECONOMICS. These four-year courses leading to the degree of Bachelor of Science 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, leading to the title of Graduate 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.

COURSES FOR THE TRAINING OF TEACHERS. Graduates of the four-year courses in Agriculture or Home Economics who fulfill the special educational professional requirements will be entitled to receive a special license to teach agriculture, home economics, or the vocation of home making, and a general license to teach other subjects. See pages 84, 89, 307 and 311 of this catalog.

SUMMER SESSION COURSES include work in agricultural bacteriology, agricultural chemistry, agricultural economics, agricultural education, agricultural engineering, agronomy, animal husbandry, dairying, plant pathology, poultry, soils, and home economics. The home economics work includes courses in art and design, millinery, food study and cookery, dietetics, research in nutrition, teaching home economics, sociological study of the family, and extension work.

SHORT COURSE IN AGRICULTURE. This course, consisting of two winter sessions 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 about March 15. 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 two terms of six weeks each, 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 who 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. H. C. Jackson, 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 ON THE CAMPUS

FARMERS' WEEK. This is a popular course of addresses, demonstrations and exercises, covering a period of one week, designed to give busy farmers the most useful instruction and practice in the science of agriculture in the shortest possible time at a season when they can be away from home for a brief period. This course, early in February, is given by the staff of the College of Agriculture, assisted by other speakers. Programs may be had upon application to Prof. K. L. Hatch, College of Agriculture, Madison, Wis.

WOMEN'S WEEK IN HOME ECONOMICS. This course for one week is designed to give women practical and helpful instruction in the various phases of home economics. The plan of instruction includes lectures and demonstrations in all phases of home management. The course is held at the same time as the Farmers' Week to afford an opportunity for farmers' wives and daughters to attend. Detailed information will be furnished upon request to Prof. Abby L. Marlatt, Department of Home Economics, Madison, Wis.

SPECIAL DAIRY COURSE. This is a one-week course of lectures, conferences, and demonstrations, designed to meet the needs of creamery and cheese factory operators and managers, and 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' Week. A special course for Cow Testing Association men is held at the same time. Detailed programs may be secured upon application to Prof. H. C. Jackson, College of Agriculture, Madison, Wis.

YOUNG PEOPLE'S WEEK. A week's course of lectures, demonstrations, and exercises which are of interest to farm boys and girls is held each year during Commencement week. Those who have won scholarships in Boys' and Girls' Club Work, pursue this course. Each day, special classes for the girls in attendance will be held at the Department of Home Economics. For further information, address Prof. T. L. Bewick, College of Agriculture, Madison, Wis.

RURAL CHURCH SUMMER SCHOOL. A course of lectures, discussions and demonstrations is held during the first two weeks of the University Summer Session. It is especially designed to be of service to town and open-country ministers and includes the entire field of rural social and economic work. For information and circular write Prof. J. H. Kolb, College of Agriculture, Madison, Wis.

AGRICULTURAL EXPERIMENT STATION

As the Wisconsin Agricultural Experiment Station is organically associated with the College of Agriculture, members of the college faculty constitute the staff of the Station. The purpose of the Station is the promotion of agricultural science by research and experimentation, and funds for the work come from both state and federal appropriations. Each of the several departments has research continually in progress, some members of the staff devoting the major portion of their time to investigations dealing with the problems of the farmer. As far as facilities permit, the subjects selected for research are those of greatest practical importance to Wisconsin farmers.

The publications of the Experiment Station include an annual report and a series of popular bulletins, research bulletins, and poster bulletins. Popular bulletins, including helpful discussions on results of experiments, are issued in editions of 20,000 to 50,000 copies and are distributed free to residents of the state upon application; the research bulletins contain technical data and discussions not designed for wide distribution and are sent to libraries, investigators, etc. Apply for the popular bulletins to H. L. Russell, Director, Madison, Wis.

AGRICULTURAL EXTENSION SERVICE

The extension work of the College of Agriculture is organized to coordinate and extend departmental service among Wisconsin farmers, and farm women, spreading and disseminating information gathered in laboratory and field plot. Under this service three lines of work are carried on:

1. Field demonstration work of the several departments.

2. The county agricultural or home demonstration agent system in which a resident instructor is located in a county.

3. Collective extension instruction given in connection with the farmers' weeks and women's schools, demonstration trains, etc.

Through such instruction and practical demonstrations many thousands of rural people who are unable to come to Madison for resident instruction are aided directly by the College. Many of the extension activities are organized on the project basis, and are partly supported by federal funds. This work is in home economics as well as in the field of agriculture. For printed matter and other information regarding this work, apply to K. L. Hatch, Assistant Director.

FARMERS' INSTITUTES

The Department of Farmers' Institutes of the College of Agriculture is maintained by a legislative provision which appropriates $30,000 annually for the purpose of conducting Farmers' Institutes at various places throughout the state. In the year July 1, 1928 to July 1, 1929, 574 two-day and one-day institutes and single session meetings were held. The Department also held 95 special farmers' co-operative marketing institutes, with consideration of such commodities as American cheese, foreign cheese, butter, and eggs.

Persons desiring institutes in their communities should write to E. L. Luther, Superintendent, for application blanks and other information.

ORGANIZATIONS

Several societies maintained by the agricultural students meet frequently to discuss questions related to their special interest. These organizations are for drill in parliamentary practice and training in debate, as well as for the discussion of scientific and practical questions. 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 Saddle and Sirloin Club is a student organization of those interested in animal husbandry; the Grafter's Club for those interested in horticulture; and the Apis Club for students of entomology.

An Agricultural Experiment Association with a paid membership of about 1,000 is maintained for the purpose of co-operating with the College and Experiment Station in advancing the agriculture of the commonwealth. By means of this organization, the members of which are located in all sections of the state, the College is in close touch with the great body of Wisconsin farmers.

A chapter of the national honorary agricultural fraternity, Alpha Zeta, and a chapter of the national honorary home economics sorority, Omicron Nu, are maintained by faculty and student members. The students publish a monthly magazine, *The Country Magazine*, under the direction of the Department of Agricultural Journalism.

ADMISSION REQUIREMENTS

The general requirements for admission are set forth in Part III of this announcement, beginning with page 33.

STUDENT EXPENSE

Fees, tuition, personal expenses, scholarships, loan funds, self-support, etc., are discussed in Part II of this announcement, beginning with page 15.

FEES AND TUITION IN SPECIAL COURSES

	Lab. Fee and Deposit	Non-resident Tuition	General Fee
Short Course—three terms of five weeks each, per term	4.50	17.22	3.34
Infirmary fee, per three terms			2.50
Gymnasium fee, per three terms			1.50
Memorial Union fee, per student			1.00
Winter Dairy Course—twelve weeks	13.00	41.33	9.50
Summer Dairy Course—five weeks	7.00	17.25	6.00

CURRICULA IN AGRICULTURE

Students of the Long and Middle Courses must take 16 to 18 credits each semester, exclusive of military science, physical education, or band instruction, except during the first semester of the freshman year, when only 14 credits are required. Electives may be added to make a total of 20 credits, provided the student has received a grade of at least B in each subject for the preceding semester. All students, including seniors, must carry at least 16 credits each semester unless excused by the Executive Committee. Before being graduated from either of these courses, the student must have had farm experience satisfactory to the department in which he majors.

AGRICULTURAL OPTIONS

Freshmen in the Middle Course and sophomores in the Long Course must choose two courses from the following group. Only one subject in a given department can be counted as an option in meeting this requirement, but subjects not chosen as options may later be taken as electives.

Agr. Engr. 1—Land surveying and drainage	3	Diary 1—Introduction to dairying	3
Hort. 1—Principles of fruit growing	3	Hort. 3—Vegetable gardening	3
Poultry 1—Poultry raising	3	Econ. Ent. 1—Farm insects	3
Vet. Sci. 1—The animal body	3	Agr. Engr. 5—Farm field machinery	3

THE LONG COURSE

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE (AGRICULTURE)

The general requirement for graduation in the Long Course is 133 credits and 133 grade-points in addition to convocation and military science, physical education, or band instruction. At the beginning of the sophomore year the student elects either Curriculum A or B and chooses as adviser a member of the department in which he expects to major. The major consists of a minimum of 15 or a maximum of 25 credits, but certain courses outside a given department may be counted in the major if reported in advance to the faculty. Changes in the major may be made at any time up to the close of registration for the first semester of the senior year. A thesis, if required, must represent some phase of the student's work in the field of his major, for which a total of 4 credits will be allowed. A minimum of 10 credits of electives during the junior or senior years shall be taken in the College of Letters and Science, including at least 6 credits in English, philosophy, psychology, sociology, political science, or history.

Students in the Long Course who wish to qualify for the University Teachers' Certificate are referred to page 84 for a statement of the requirements.

LONG COURSE IN AGRICULTURE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Chem. 1a—General chemistry	5	Chem. 1b—General chemistry	5
Math. 71—Mathematics for agricultural students	4	Botany 1—General botany	5
An. Husb. 1—Elem. livestock judging, or	3	Agron. 1—General farm crops	3
Agron. 1—General farm crops	(3)	or	
Convocation	0	An. Husb. 1—Elem. livestock judging	(3)
Physical activity requirement	0	Physical activity requirement	0
	15		16

Students will elect either animal husbandry or agronomy in the first semester and the alternative subject in the second semester. Upon approval of the Executive Committee, a student may substitute for Mathematics 71 some other course in mathematics.

CURRICULUM A

SOPHOMORE YEAR

Chem. 12—Quantitative analysis	3	Agr. Chem. 1, 2—Agricultural chemistry and analysis	5
Zool. 3—Elementary zoology	3	Econ. 1a—General economics	4
Soils 1—Soil fertility	5	Physics 61—General physics	5
Agricultural option (see above)	3	Agricultural option (see above)	3
Electives	2	Physical activity requirement	0
Physical activity requirement	0		
	16		17

JUNIOR YEAR

Ag. Bact. 1—General survey	5	Botany 146, Physiology 3, or substitute	4
Ag. Econ. 1—Principles of agricultural economics	3	Major and electives	12–14
Major and electives	8–10		
	16–18		16–18

Students majoring in the following departments will take the following subjects instead of Botany 146 or Physiology 3:

Agricultural Economics, Dairy Husbandry—Economics 1b.

Agricultural Journalism—Agricultural Economics 25.

Agricultural Engineering—Advanced mathematics.

Agricultural Education—Three cr. in the Department of Education.

SENIOR YEAR

Major and electives	16–18	Major and electives	16–18

In this curriculum 40 credits of elective work may be taken outside the College of Agriculture.

CURRICULUM B

SOPHOMORE YEAR

Agricultural option (see above)	3	Econ. 1a—General economics	4
Soils 1—Soil fertility	5	Agricultural option (see above)	3
or		Agr. Chem. 1, 2—Agricultural chemistry	
Chem. 12—Quantitative analysis	(3)	and analysis, or	5
Optional science or mathematics } Electives }	8-12	Optional science or mathematics	(5)
		Additional science or mathematics } Electives }	4–6
Physical activity requirement	0	Physical activity requirement	0
	16–18		16–18

Soils 1 or Agricultural Chemistry 1 and 2 is required. Chemistry 12 must be taken in the first semester if Agricultural Chemistry 1 and 2 are to be elected in the second semester. At least 10 credits of chemistry, zoology, physics, geology, geography, botany, physiology or mathematics in addition to that of the freshman year must be taken outside the college. Economics 1a may be taken in the first semester if desired.

JUNIOR AND SENIOR YEARS

Same as corresponding years of Curriculum A, excepting that during the four years the student must complete a minimum of 50 credits in the College of Agriculture, including required agricultural courses, options, major, and electives.

THE MIDDLE COURSE

LEADING TO THE TITLE OF GRADUATE IN AGRICULTURE

The total requirements for graduation in the Middle Course are 64 credits and 64 grade-points. All Middle Course students are required to take convocation and two full years of physical education, military science, or band instruction.

A maximum of ten elective credits may be taken outside the College of Agriculture. Subjects of the Long Course taken in the College of Letters and Science and not required in the Middle Course are considered electives 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.

This course gives the maximum opportunity for choosing work for a vocational objective. Students should have an objective in mind when entering the course and plan their work so prerequisites may be taken for all courses desired. Early in the first semester the Assistant Dean should be consulted concerning objectives and future courses desired. Dairy manufacturing, poultry, animal husbandry, horticulture, or farm crops are usual fields of specialization, but others may be made.

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Chem. 1a—General chemistry	5	Chem. 1b—General chemistry	5
Electives	6	Electives	8
Convocation	0	Physical activity requirement	0
Physical activity requirement	0		
	14		16

SOPHOMORE YEAR

Electives	17	Electives	17
Physical activity requirement	0	Physical activity requirement	0
	17		17

CURRICULA IN HOME ECONOMICS

ABBY L. MARLATT, DIRECTOR, PROFESSOR OF HOME ECONOMICS

The Department of Home Economics offers courses dealing with the principles underlying the proper management of the home, the care of children, the hygienic and sanitary conduct of institutions, and the economic conditions affecting the work of women. The courses are planned to meet the needs of four classes of students:

1. Those who desire a general knowledge of the subject matter of home economics as part of a general education. A wide range of electives in Letters and Science is possible in the general course. Home Economics may also be taken as a minor with the major leading to a B.A. degree.
2. Those who desire to make a detailed study of home economics in preparation for a professional career other than teaching.
3. Those who wish to teach home economics in secondary schools, vocational schools, extension courses, and institutions of higher learning.
4. Graduate students who have the requisite knowledge to benefit by research work in subjects connected with the home.

GENERAL REQUIREMENTS

The degree of Bachelor of Science, Home Economics Course, is conferred upon those who complete a four- or five-year major in home economics. A total of 120 credits and 120 grade-points is required for graduation, or 124 credits when a teachers' certificate is desired. Two years of physical education are also required. Sixteen credits exclusive of physical education may be elected each semester, with the privilege of increasing to 18 credits provided the student has received a grade of B or higher in each subject for the preceding semester. All students, including seniors, must elect a schedule of at least 14 credits each semester, unless given permission by the Executive Committee to carry a reduced schedule.

At least 8 credits in foreign language beyond beginning courses are required of all students except those entering with 4 high-school units in one language or a total of 5 units in two languages. Students entering with 2 or more units of a foreign language are expected to continue that language for 8 credits, but such students desiring to change to another

language or those entering with less than 2 units are required to take 16 credits in one foreign language, the first 8 credits of which are counted as electives.

In the Course in Home Economics a student must have at least 25 grade-points and 25 credits before she may become a sophomore, at least 58 grade-points and 58 credits before she may become a junior, and at least 88 grade-points and 88 credits before she may become a senior.

All students entering the College of Agriculture with advanced standing of two or more credits in Home Economics are not required to take Home Economics 9, 1 credit.

A student given partial credit by the Advanced Standing Committee in any required subject, and who shall complete a more advanced required course in some other department for which the partially credited course is a prerequisite, shall be permitted to substitute electives to make up deficiencies in credits in the required course.

MAJORS

The requirements for a major in Home Economics are not less than 18 nor more than 40 credits in strictly home economics subjects. A minimum of 12 credits or a maximum of 32 in strictly home economics subjects, inclusive of the thesis, may be taken during the junior and senior years. Home Economics 2, 9, and 109 are general courses in art and on the family, required of all majors in Home Economics. They are not counted in either the minimum or maximum credits for the major, but are included in the 120 required for graduation. The teachers' courses, 352, 353, 190, and 194, may be elected and count not only toward the 120 required for graduation, but also as part of the 124 credits necessary for receiving the University Teachers' Certificate; they are not, however, considered as home economics electives.

The majors which lead to professional work in the field of home economics are: (1) teaching in home economics, (2) food major—either hospital dietitian or institutional management, (3) textile major, (4) applied bacteriology major, (5) nursing or hospital administration major, (6) major in related art. There is also a non-professional course which allows a wide latitude in the choice of a major.

THESIS

All candidates for a degree are required to present a thesis. A thesis 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. On the advice of the major professor, course 80 may be taken for 4 credits to count as a thesis substitute, and at her direction the finished typewritten report may be deposited in the University Library as a thesis or retained in the departmental office.

MINORS FOR LETTERS AND SCIENCE STUDENTS

A minor in Home Economics is not less than 10 nor more than 20 credits in home economics subjects. The following may be elected:

(1) The minor in foods must include Home Economics 1a–b, and other related courses, such as 47, to make 10 to 20 credits. The teaching minor includes Home Economics 352.

(2) The minor in clothing and textiles must include Home Economics 2, 5, 10, 11, and other courses to complete 15 credits. The textile teaching minor may include courses 2, 5, 10, 11, 50, 97, 352, 353, and other vocational and related courses to make 20 credits.

(3) The minor in housing problems is intended to be taken with a major or minor in sociology so that those intending to do the work of sanitary inspector, visiting housekeeper, or visiting teacher, or other social welfare work, will have a broad foundation knowledge of the fundamental problems in housing conditions as well as fundamentals in home and budget making for a family. This minor includes Home Economics 1a, 1b, 70, and other related courses.

(4) The minor in related art is intended to be taken by home economics general majors, majors in home economics journalism, and majors in Industrial Education and Applied Arts. A minor in related art must include courses elected from the following list to complete 15 credits: Home Economics 2, 12, 8, 18, 20, 93, 94, 95, 114, 116, 194.

GENERAL OR NON-PROFESSIONAL COURSE IN HOME ECONOMICS

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE, HOME ECONOMICS COURSE

This course is planned for students who do not wish to be trained in the professional home economics majors, and therefore is less severely technical and allows a more liberal choice of electives. Science requirements and required credits in home economics are greatly reduced; but, on the other hand, a student may elect much more freely in any college after she has taken certain fundamental home economics subjects. General majors interested in becoming costume designers, interior decorators, or textile designers should, in addition to the fundamental courses offered in Home Economics, avail themselves of the opportunities offered in the Department of Industrial Education and Applied Arts.

The same number of credits are required for graduation in the General Course in Home Economics as for the Bachelor of Arts degree. Students are expected to secure 14 to 16 credits per semester, making an average of 30 credits per year, or 120 credits and 120 grade-points for the course. In addition the student is required to take physical education during the first two years, and convocation is required for the first half of the first semester of the freshman year.

From 48 to 58 credits may be chosen by the student in any college in addition to the 10 credits which she is required to elect in the College of Letters and Science. Not more than 26 of these credits may be elected in home economics subjects, such election being dependent on having selected the necessary prerequisites. It is wise to select electives with a definite goal in mind so that at graduation intensive study will have been made in some one subject or related subjects.

General majors interested in becoming costume designers, interior decorators or textile designers should, in addition to the fundamental courses offered in Home Economics, avail themselves of the opportunities offered in the Departments of Art, History, and Applied Arts. See index.

To make such plans it is desirable that the student plan the desired electives with her faculty adviser as early as possible in the sophomore year. The required work of this general major is as follows:

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Foreign language (second year)	4	Foreign language (second year)	4
Chem. 1a—General chemistry	5	Home Econ. 3—Introduction to food study	3
Home Econ. 9—Introduction to home economics	1	Chem. 1b—General chemistry	5
Home Econ. 2—Art and design	3	Physical education	0
Convocation	0		
Physical education	0		
	16		15

In addition to 10 credits of chemistry, 4 to 6 credits of science are required during the freshman and sophomore years, to be selected from the list below. Upon approval of the Executive Committee a student may substitute one of these optional sciences for Chemistry 1b.

Agr. Bact. 4—Household bacteriology	5	Physiol. 1—Elements of human physiology	4
Agr. Chem. 3—Household chemistry	5		
Physics 65—General physics	6		

SOPHOMORE YEAR

Engl. 30 or 33—English literature	3–2	Electives	15
Home Econ. 5—Introduction to textile study	3	Physical education	0
Electives	10		
Physical education	0		
	15–16		15

JUNIOR YEAR

Home Econ. 7—House architecture and sanitation	2	Electives	15
Home Econ. 17—House architecture lab.	2		
Electives	11		
	15		15

SENIOR YEAR

Home Econ. 80 or 100	2	Home Econ. 80 or 100	2
Home Econ. 110—Household administration	2	Home Econ. 109—Humanics	4
Home Econ. 112—Household admin. lab.	2	Electives	9
Electives	9		
	15		15

PROFESSIONAL COURSE IN HOME ECONOMICS

The professional majors in foods, textiles, bacteriology, teaching, nursing, etc. are technical in nature and give but little opportunity for electives. Commercial and professional positions generally require this intensive training and considerable science as a foundation. The first two years are common to all professional majors.

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Foreign language (second year)	4	Foreign language (second year)	4
Chem. 1a—General chemistry	5	Chem. 1b—General chemistry	5
Home Econ. 9—Introduction to home economics	1	Home Econ. 3—Introduction to food study	3
Home Econ. 2—Art and design	3	Physical education	0
Convocation	0		
Physical education	0		
	16		15

SOPHOMORE YEAR

Physics 65—General physics	3	Physics 65—General physics	3
Home Econ. 5—Introd. to textile study	2	Home Econ. 50—Textiles	3
Agr. Chem. 3—Household chemistry	5	Agr. Bact. 4—General survey	5
Physiol. 1—Elements of physiology	4	Electives	4
Elective	2	Physical education	0
Physical education	0		
	16		15

TEACHING MAJOR IN HOME ECONOMICS

A total of 124 credits and 124 grade-points is required for graduation. The number of free electives varies from 11 to 56 credits, depending on the amount of foreign language required and whether a teachers' certificate is to be earned. Electives may be chosen in any college of the University.

It is desirable that electives be grouped for a definite purpose such as a teaching minor or teachers' certificate, a journalism minor, (Agricultural Journalism 8, 106, 111, Journalism 123), sociology minor, a related art minor, or for wider and more intensive knowledge as a basis for advanced study. For example, those taking a food major elect additional courses in organic and physiological chemistry in preparation for more intensive work in nutrition.

Those desiring to go into social welfare work should take a minor in sociology. It should include Economics 1a, and two courses from each of the following groups to make a total of fifteen credits:

Group A—Sociology 1, 139, 172, 197.

Group B—Sociology 2, 141, 161, 177.

Those who wish to go into extension work may elect a minor in agriculture. It is suggested that 10 credits (the minimum number allowed) be chosen from Agricultural Economics 25, 126; Agricultural Journalism 8, 111; Horticulture 3, 8; Agricultural Education 5; Economic Entomology 1; Poultry Husbandry 1.

Teaching minors may be chosen in the various departments as discussed under School of Education, page 89. A minor varies from 10 to 20 credits of work chosen for a distinct purpose in a single department. The following minors have proved very satisfactory in connection with a home economics teaching major: chemistry, bacteriology, mathematics, modern language, physiology, physics, sociology, journalism, education. Students in the sophomore year should discuss the matter of majors in home economics and minors in other departments with their faculty advisers.

JUNIOR YEAR

Home Econ. 4—Economic problems of food supply	3	Home Econ. 6—Nutrition and dietetics	2
Home Econ. 7, 17—House architecture and sanitation	4	Home Econ. 16—Dietetics laboratory	2
Home Econ. 10—Clothing economics	2	Home Econ. 18—House decoration laboratory	2
Home Econ. 20—Costume design	2	Home Econ. 11—Problems in clothing construction	3
Electives	4	Electives	6
	15		15

SENIOR YEAR

Home Econ. 110, 112—Household administration	4	Home Econ. 109—Humanics	4
Home Econ. 80 or 100	2	Home Econ. 80 or 100	2
Home Econ. 353—Clothing methods	2	Electives	5
Electives	7	Home Econ. 352	4
	15		15

Students entering with advanced standing in Home Economics 352 must take Home Economics 190; credit in Home Economics 352 is required of all. Persons not desiring to qualify for a teachers' certificate but wishing a general course in home economics may omit Home Economics 353 in the senior year.

REQUIREMENTS FOR TEACHERS' CERTIFICATES

PUBLIC SCHOOL CERTIFICATE. Students receiving the Bachelor of Science degree in a home economics professional major and taking additional work in education to make 124 credits for graduation, will be entitled to receive the University Teachers' Certificate upon recommendation of fitness by the Department of Home Economics and upon completing as a part of their elective work the following courses: Education 31, Principles of Education, 3 credits; Education 75, Psychology and practice of teaching, 5 credits; departmental teachers' course, 3–4 credits; electives in the Department of Education, 4–3 credits; making a total of 15 credits. Home Economics 353, Clothing methods, is also required of all candidates for the University Teachers' Certificate. See School of Education, page 89, for further details.

Students desiring to qualify for the University Teachers' Certificate should register with the Director of the School of Education during the first semester of the junior year. They will find it advantageous to select an additional subject in which they may qualify under the head of a minor, so that when they are placed in small high schools they will be equipped to teach not only their major subject of home economics, but also a minor subject. A suggested list of minors includes mathematics, Eng-

lish, modern language, history, Latin, physiology, physics, chemistry, botany, and biology. The selection of a minor should be made as early in the course as possible so that the free electives may be utilized to best advantage.

VOCATIONAL SCHOOL CERTIFICATE. Upon completion of a course of training in a professional major, including the 15 credits for the teachers' certificate and summer school courses in vocational education, and upon recommendation of fitness by the Department of Home Economics, the student will be certified to the State Board of Vocational Education, which, on approval of the student's record, will issue a certificate as instructor in vocational courses in homemaking.

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; therefore between the junior and senior years the student should spend the vacation period in practical home management, reporting details of the work to the instructor in charge of the household administration class. Study of standards is provided at the practice cottage, which is a laboratory in connection with the Home Economics Department.

MAJOR IN FOOD AND NUTRITION

The major in food and nutrition is planned to meet the demands for trained dietitians in hospitals, Red Cross nutrition service, child health workers in social welfare associations, consultant dietitians in medical clinics, and dietitians in cafeterias, tea rooms, and public schools, and research assistants in experiment stations.

In the second semester of the junior year majors in institutional management will take Home Economics 22 for 2 credits. Hospital dietitians are advised to elect Chemistry 20 in the junior year and Physiological Chemistry 104 in the senior year or the summer session. Those wishing to teach should elect two additional clothing courses and the required education courses in the junior year.

JUNIOR YEAR

Home Econ. 4—Economic problems of food supply	3	Home Econ. 6—Nutrition and dietetics	2
Home Econ. 7, 17—House architecture and sanitation	4	Home Econ. 16—Dietetics laboratory	2
Electives	8	Electives	11
	15		15

SENIOR YEAR

HOSPITAL DIETITIAN

Home Econ. 110, 112—Household administration	4	Home Econ. 109—Humanics	4
Home Econ. 125—Dietotherapy	3	Home Econ. 80 or 100	2
Home Econ. 80 or 100	2	Free electives	7
Free electives	4	Home Economics elective	2
Home Economics elective	2		
	15		15

INSTITUTIONAL MANAGEMENT (124 CREDITS)

The institutional major elects fewer science courses and more economic and sociology courses, with applied economic work along food, marketing, and equipment studies. The total credits are the same as for the teaching major.

Home Econ. 110, 112—Household administration	4	Home Econ. 109—Humanics	4
Home Econ. 134—Institutional equipment and furnishing	2	Home Econ. 133—Tea room and restaurant management	3
Home Econ. 80 or 100	2	Home Econ. 122—Organization and administration of institutions	2
Electives	8	Home Econ. 80 or 100	2
		Electives	5
	16		16

MAJOR IN CLOTHING AND TEXTILES

The major in clothing and textiles is planned to meet the needs of the student who expects to teach clothing and textiles. Students who elect a minor in sociology (page 220) may prepare themselves for social work and those wishing to go into store work may elect courses in economics and salesmanship which will fit them for such positions. Those preparing for costume design work should take added courses in fine and applied arts and history.

Home Economics electives are to be selected from the following courses: 1a, 20, 32, 96, 103, 104, 106.

JUNIOR YEAR

Home Econ. 7, 17—House architecture and sanitation	4	Home Econ. 8—House decoration	2
Home Econ. 10—Clothing economics	2	Home Econ. 18—House decoration lab.	2
Electives	9	Home Econ. 11—Problems in clothing construction	3
		Electives	8
	15		15

SENIOR YEAR

Home Econ. 110, 112—Household administration	4	Home Econ. 109—Humanics	4
Home Econ. 353—Clothing methods	2	Home Economics electives	2
Home Econ. 80 or 100	2	Home Econ. 80 or 100	2
Home Econ. 97—Advanced clothing construction	2	Free electives	7
Free electives	5		
	15		15

MAJOR IN RELATED ART

The related art major includes courses in home furnishing, costume design, applied design, clothing or foods, and art. It gives preliminary training for commercial positions as advisers in home furnishing departments, as editors of women's sections in magazines and papers, as professional costume designers (after further art training), and as interior decorators and furnishers. *This is not a teaching major for grades or high schools.*

Students preparing for editorial work should elect a journalism minor; those preparing for professional costume designing should elect additional courses in clothing and in applied arts; and those preparing for interior decorating and house furnishing work should elect Home Econ. 114, Studies and practice in interior decorating and furnishing, 2 credits, and Home Econ. 116, Seminary in interior decorating and furnishing, 4 credits.

All students in this major should elect Applied Arts 50 and 51, Free-hand drawing, 6 credits, during the sophomore or junior year. In the senior year four credits in advanced courses in foods or clothing must be taken.

JUNIOR YEAR

Home Econ. 7, 17—House architecture	4	Home Econ. 8, 18—House decoration	4
Home Econ. 20—Costume design	2	Home Econ. 94—Advanced applied design	3
Home Econ. 95—Hand loom weaving	1	Electives	9
Electives	8		
	15		16

SENIOR YEAR

Home Econ. 110, 112—Household administration	4	Home Econ. 109—Humanics	4
Home Econ. 80 or 100	2	Home Econ. 80 or 100	2
Electives	9	Electives	9
	15		15

MAJOR IN APPLIED BACTERIOLOGY

Students 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 sewage plants, manufactories of biological products, and 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 demand for such technicians, and many of the home economics graduates have found the work both attractive and stimulating. The major consists of a minimum of 19 credits, including the required course in bacteriology and the thesis. Electives may be chosen from the following:

Agr. Bact. 125—Food bacteriology	3	Agr. Bact. 121—Dairy bacteriology	3
Agr. Bact. 124—Bacteriology technique	3	Agr. Bact. 200—Research	2
Agr. Bact. 200—Research	2	Agr. Bact. 231—Seminary	1
Agr. Bact. 231—Seminary	1	Agr. Bact. 100—Thesis	2
Agr. Bact. 100—Thesis	2	Vet. Science 126—Laboratory diagnosis	3
Path. 102—Medical bacteriology	5	Zool. 119—Animal parasites	3
Zool. 111—Micro-technique	3		

JUNIOR YEAR

Home Econ. 4—Economic problems of food supply	3	Home Econ. 6—Nutrition and dietetics	2
Home Econ. 7, 17—House architecture and sanitation	4	Home Econ. 16—Dietetics laboratory	2
Electives	9	Electives	12
	16		16

SENIOR YEAR

Home Econ. 110, 112—Household administration	4	Home Econ. 109—Humanics	4
Electives	12	Chem. 113—Water analysis	1
		Electives	11
	16		16

NURSING OR HOSPITAL ADMINISTRATION MAJOR

The five-year combined course in home economics and nursing leads to the degree of Bachelor of Science, Hospital Administration, and to the certificate of graduate nurse. The requirements are as follows:

FRESHMAN AND SOPHOMORE YEARS

Students take the required work as outlined for the professional majors on page 311, except that English 33a for 2 credits and Psychology 1 for 3 credits take the place of electives in the sophomore year.

JUNIOR YEAR

Home Econ. 7 and 17—House architecture and sanitation	3	Nursing 1—Elementary principles	2
Home Econ. 47—Diet problems in feeding children	3	Home Econ. 6—Nutrition and dietetics	2
Engl. 33b—Introduction to English literature	2	Home Econ. 16—Dietetics laboratory	2
Electives	7	Home Econ. 22—Marketing and large quantity cookery	2
		Home Econ. 133—Tea room and restaurant management	3
		Electives	5–6
	15		15–16

Either Anatomy 120 or Physiology 4 must be elected during the junior year.

Following the junior year in the College of Agriculture, the professional course consists of 27 months in residence in the Nurses' Dormitory. During this period the student has instruction in medicine, surgery, and principles of nursing, ward practice in the wards and out-patient department of the hospital, and practical training in public health nursing. The residential course is divided into four half years of academic and professional education and three additional months of special training. In each half year there are one semester of four months of academic and ward work, six weeks (52 hours per week) of ward or field work, and two weeks of vacation. A complete outline of this work may be found under School of Nursing, page 371.

DEPARTMENTS OF INSTRUCTION

Abbreviations used in the announcement of courses:
Yr—a continuous course extending through two semesters
I—course given during the first semester
II—course given during the second semester
I, II—semester course given each semester
cr.—number of credit hours per semester
*—to be arranged

Courses numbered from 1 through 100 are open for credit to undergraduates only; from 101 to 199 to both undergraduates and graduates; over 200 to graduates only, or very exceptionally to advanced undergraduates.

AGRICULTURAL BACTERIOLOGY

EDWIN GEORGE HASTINGS, M.S., *Professor of Agricultural Bacteriology, Chairman*
EDWIN BROWN FRED, Ph.D., *Professor of Agricultural Bacteriology*
WILLIAM DODGE FROST, Ph.D., D.P.H., *Professor of Agricultural Bacteriology*
IRA LAWRENCE BALDWIN, Ph.D., *Associate Professor of Agricultural Bacteriology*
OSCAR NELSON ALLEN, M.A., *Instructor in Agricultural Bacteriology*
HARRY E. SAGEN, M.S., *Instructor in Agricultural Bacteriology*

Students majoring in this department may take Medical Bacteriology 102 or 104 or Veterinary Science 126, and count five of these credits toward the major requirement.

1. GENERAL SURVEY OF BACTERIOLOGY. I; 5 cr. The relation of micro-organisms to soil fertility, to animal diseases, and to food. Prerequisite: Chemistry 1a. Required of all agricultural students. Lab. fee $6.75. Mr. Baldwin, Mr. Sagen.

2. GENERAL SURVEY. II; 4 cr. The relation of micro-organisms to chemical transformations, especially as regards their relation to water, food, sewage disposal, and industrial processes. For chemistry course students. Prerequisite: Chemistry 1b. Lab. fee $6.75. Mr. Baldwin, Mr. Sagen.

4. GENERAL SURVEY. II; 5 cr. Survey of bacteriology with special emphasis on the relation of micro-organisms to foods and domestic sanitation. One out-of-town class trip taken. Prerequisite: Chemistry 1a. Required of students in home economics. Lab. fee $6.75. Mr. Frost.

100. THESIS. Yr; 2 cr. A definite problem in dairy, soil, or household bacteriology or in animal diseases. Prerequisites: Agr. Bact. 1, 2, or 4, and consent of instructor. Lab. fee $2.25 per lab. cr. Staff.

121. DAIRY BACTERIOLOGY. II; 3 cr. The bacteriology of milk production and distribution and of dairy manufacturing. Prerequisite: Agr. Bact. 1, 2, or 4, or Medical Bact. 102. Lab. fee $4.50. Mr. Hastings.

123. SOIL BACTERIOLOGY. II; 3 cr. The relation of micro-organisms to soil fertility. Prerequisite: Agr. Bact. 1, 2, or 4, or Medical Bact. 102. Lab. fee $4.50. Mr. Fred.

124. ADVANCED TECHNIQUE. II; 3 cr. Training in special methods of laboratory technique. Prerequisite: Agr. Bact. 1, 2, or 4, or Medical Bact. 102. Not offered 1930–31. Lab. fee $4.50. Staff.

125. FOOD BACTERIOLOGY. I; 3 cr. The role of bacteria as related to the preservation, preparation, and sanitation of foods. Prerequisite: Agr. Bact. 1, 2, or 4, or Medical Bact. 102. Lab. fee $4.50. Mr. Frost.

126. PHYSIOLOGY OF BACTERIA. I; 3 cr. The chemistry and physics of bacterial processes. Prerequisite: Agr. Bact. 1, 2, or 4, or Medical Bact. 102. Lab. fee $4.50. Mr. Baldwin, Mr. Allen.

130. DETERMINATIVE BACTERIOLOGY. Yr; 2–5 cr. Training in the common methods of the bacteriological laboratory. Prerequisite: Agr. Bact. 1, 2, or 4, or Medical Bact. 102. Lab. fee $2.25 per lab. cr. Mr. Frost.

200. RESEARCH. Yr; 2–5 cr. A detailed study of a definite problem in the field of agricultural bacteriology. Prerequisites: Agr. Bact. 121, and 123, 124, 125, or 130. Lab. fee $2.25 per lab. cr. Staff.

231. SEMINARY. Yr; 1 cr. Discussion of the research work of the department and of current problems in the fields covered by the department. Staff.

AGRICULTURAL CHEMISTRY

EDWIN BRET HART, B.S., *Professor of Agricultural Chemistry, Chairman*
WILLIAM HAROLD PETERSON, Ph.D., *Professor of Agricultural Chemistry*
HARRY STEENBOCK, Ph.D., *Professor of Agricultural Chemistry*
WILLIAM EDWARD TOTTINGHAM, Ph.D., *Associate Professor of Agricultural Chemistry*
KARL PAUL LINK, Ph.D., *Associate Professor of Agricultural Chemistry*
JAMES WADDELL, Ph.D., *Research Associate in Agricultural Chemistry*
CONRAD ARNOLD ELVEHJEM, Ph.D., *Instructor in Agricultural Chemistry*
SEYMOUR WILLIAM FREDERICK KLETZIEN, Ph.D., *Instructor in Agricultural Chemistry*
BLANCHE MARYE RIISING, B.S., *Instructor in Agricultural Chemistry*
HENRY THOMAS SCOTT, Ph.D., *Instructor in Agricultural Chemistry*

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 and 122 are for students desiring a more detailed knowledge of the special subjects treated and are preliminary to greater specialization. These courses should be preceded or accompanied by work in biology and organic chemistry. Physiology and bacteriology are desired prerequisites. All other advanced courses in this department are open to undergraduates and graduates who have had the necessary preliminary training.

1. AGRICULTURAL CHEMISTRY. II; 3 cr. A general discussion of chemistry applied to the farm, including the chemistry of plants and animals and the processes involved in their growth. Prerequisite: Chemistry 1b or concurrent registration. Mr. Elvehjem.

2. AGRICULTURAL ANALYSIS. II; 2 cr. Analytical chemistry applied to agricultural materials; quantitative analysis of soils, fertilizers, manures, feeding stuffs, and insecticides. Prerequisites: Chemistry 1b and 12. Lab. fee $4.50. Mr. Elvehjem.

3. HOUSEHOLD CHEMISTRY. I; 5 cr. The composition, physical properties, and nutritive value of foods; chemistry of the home, cleaning materials, dyes, etc. Required of all home economics students. Prerequisite: Chemistry 1b. Lab. fee $6.75. Mr. Peterson.

100. THESIS. Yr; 2 cr. May be taken in plant, animal, fermentation, or dairy chemistry. Lab. fee $2.25 per lab. cr. Mr. Hart, Mr. Peterson, Mr. Steenbock, Mr. Tottingham.

120. PLANT CHEMISTRY. II; 2 or 5 cr. The mechanism and course of chemical processes in the growth of plants, including the effect of environmental factors. Selected methods for the determination of plant constituents. Prerequisites: Chemistry 1b and 120. Lab. fee $2.25 per lab. cr. Mr. Tottingham.

121. DAIRY CHEMISTRY. I; 2 or 5 cr. The chemistry of milk and its products, including the chemistry of fermentation and detection of adulterants. Prerequisites: Chemistry 1, 12, and 120. Lab. fee $2.25 per lab. cr. Mr. Hart.

122. ANIMAL CHEMISTRY. I; 2 or 5 cr. The chemistry of feeds, processes of digestion, use of nutrients, and metabolic changes involved in the nutrition of animals. Prerequisites: Chemistry 1, 12, and 120. Lab. fee $2.25 per lab. cr. Mr. Steenbock.

124. ADVANCED BIO-CHEMISTRY. I, II; 1–3 cr. A survey of important analytical processes used in the study of bio-chemical problems. Prerequisites: Chemistry 1, 12, 120, and Agr. Chem. 122. Lab. fee $2.25 per lab. cr. Mr. Waddell.

125. THE VITAMINS. II; 1–3 cr. Lectures and laboratory work on the vitamins, including the animal technique used in their identification. Prerequisite: Agr. Chem. 122. Lab. fee $2.25 per lab. cr. Mr. Steenbock.

126. MODERN VIEWS OF ANIMAL NUTRITION AND THEIR APPLICATION. II; 2 cr. A course of lectures and conferences on the newer knowledge of nutrition applied to man, poultry, dairy cattle, swine, etc. Prerequisite: Agr. Chem. 122. Mr. Hart.

127. FERMENTATION BIO-CHEMISTRY. II; *cr. Lectures and laboratory work on the chemistry and bacteriology of fermentation. Lab. fee $2.25 per lab. cr. Mr. Peterson, Mr. Fred.

128. CARBOHYDRATE CHEMISTRY. I; *cr. Laboratory work with conferences on the chemistry of the carbohydrates. Includes a study of the properties and methods of separation and identification of the more important sugars. Lab. fee $2.25 per lab. cr. Mr. Link.

230. PLANT NUTRITION. Yr; *cr. The influence of fertilizers upon the development and composition of plants in field and pot experiments, including the effects of environmental factors. Prerequisite: Agr. Chem. 120. Lab. fee $2.25 per lab. cr. Mr. Tottingham.

231. ANIMAL NUTRITION. Yr; *cr. Composition and digestibility of foods and their influence upon growth, production of milk, etc. Prerequisite: Agr. Chem. 122. Lab. fee $2.25 per lab. cr. Mr. Hart.

232. ADVANCED DAIRY CHEMISTRY. Yr; *cr. The proximate analysis of milk and its products, and a study of the changes which occur in the manufacture of dairy products. Prerequisites: Agr. Chem. 121. Lab. fee $2.25 per lab. cr. Mr. Hart.

233. SEMINARY. Yr; 1 cr. Original articles of importance are studied in detail, to broaden and deepen the understanding and to act as a stimulus to further research. Mr. Hart and staff.

AGRICULTURAL ECONOMICS

BENJAMIN HORACE HIBBARD, Ph.D., *Professor of Agricultural Economics, Chairman*
JOHN HARRISON KOLB, Ph.D., *Professor of Rural Sociology*
PRESTON ESSEX MCNALL, M.S., *Professor of Agricultural Economics*
GEORGE SIMON WEHRWEIN, Ph.D., *Professor of Agricultural Economics*
ELLIS LORE KIRKPATRICK, Ph.D., *Associate Professor of Rural Sociology*
HENRY HARRISON BAKKEN, M.A., *Assistant Professor of Agricultural Economics*
ISAAC FULTS HALL, Ph.D., *Assistant Professor of Agricultural Economics*
ARTHUR F. WILEDEN, M.S., *Assistant Professor of Rural Sociology*
JOHN SWEET DONALD, B.S., D.D.S., *Lecturer in Agricultural Economics*
MILES CHARLES RILEY, LL.B., *Lecturer in Agricultural Economics*
MARVIN ARNOLD SCHAARS, M.S., *Instructor in Agricultural Economics*
RUDOLPH KNUGAARD FROKER, M.A., *Instructor in Agricultural Economics*

The courses in agricultural economics are intended to give the students a knowledge of the economic principles which relate to the production and marketing of farm products, and to the economic and social conditions of the agricultural classes. As such it is a field of general interest to all concerned with farmers and their welfare.

There are two methods of taking agricultural economics. First, it may be taken as a joint major along with work in one or more other departments, economics being recognized as a phase of farming coordinate with many other lines of inquiry; second, agricultural economics may be taken as a full major by those who decide to make it a main line of study preparatory to teaching, research, or work of an economic character. The major consists of 15 credits, including the thesis.

1. PRINCIPLES OF AGRICULTURAL ECONOMICS. I; 3 cr. Application of economics to agriculture. Required of all agricultural students. Prerequisite: Economics 1a. Mr. Hibbard.

8. FARM RECORDS AND ACCOUNTS. II; 2 cr. Inventories, bookkeeping, and accounting principles as applied to farm operations. Mr. Mitchell.

10. FARM ORGANIZATION AND MANAGEMENT. II; 3 cr. Farm methods and practices as applied to business management on the farm. Mr. McNall.

14. FARM BUSINESS AND LEGAL PRACTICE. II; 3 cr. Mr. Riley.

25. RURAL LIFE. I; 3 cr. The rural life movement with special attention given to the group organization of rural society; rural social institutions, such as the family, the school, the church, social and welfare agencies; principles and policies of rural community organizations. Prerequisite: Sophomore standing. Mr. Kolb.

100. THESIS. Yr; 2 cr. Staff.

107. FARM COST ACCOUNTING. II; 2 cr. Systems of cost accounting in their application to the problems of farm organization and operation. Prerequisite: Agr. Econ. 8. Mr. McNall.

117. OUTLINES OF LAND ECONOMICS. I; 3 cr. This course undertakes to cover the theoretical principles underlying landed property including the theories of rents, taxation, and conservation, together with the leading facts of land utilization. Prerequisite: Econ. 1a. Mr. Hibbard.

126. RURAL STANDARDS OF LIVING. II; 2 cr. Origin, development, and contact of rural standards of living; prevailing rural standards respecting food, clothing, housing, operating, health, and advancement; factors conditioning rural standards; and relation of community arrangements and institutions. Prerequisite: Junior standing. Mr. Kirkpatrick.

127. COOPERATIVE MARKETING. II; 2 cr. The structure, business essentials, policies, scope, and merchandising of cooperative corporations. Examination of the principal cooperative marketing companies, their consumer brands, reasons for success, and influence upon their respective industries. Prerequisite: Agr. Econ. 128. Mr. Schaars.

128. MARKETING OF FARM PRODUCTS. II; 3 cr. Essential marketing services, methods employed and agencies operating the marketing system. Consideration of price making forces, weaknesses in marketing agencies, avenues of improvement, governmental relations and marketing status of leading farm products. Prerequisite: Econ. 1a, or middle course sophomore standing. Mr. Schaars.

150. ECONOMIC THOUGHT AND THE FARM PRESS. II; 2 cr. Mr. Hibbard.

152. FARMER MOVEMENTS. I; 2 cr. A discussion of the great farmer movements such as the Grange, the Alliance, and the American Farm Bureau Federation. Prerequisite: Agr. Econ. 1. Mr. Hibbard.

180. TOPICAL WORK. Yr; *cr. Staff.

200. RESEARCH. Yr; *cr. Cooperation and marketing, Mr. Bakken, Mr. Schaars; Farm surveys and financial accounts in their relation to farm management, Mr. McNall; Cost accounting and its relation to farm management, Mr. McNall; History of agricultural production, Mr. Hibbard; Rural life, Mr. Kolb; Farmer movements, taxation and farm credit, Mr. Hibbard; Land economics and land problems, Mr. Wehrwein.

221. LAND INCOME. II; 2 cr. The economic characteristics of land; the economics of land utilization with reference to costs and income; theories of rent; valuation and taxation of land. Mr. Wehrwein.

225. SEMINARY IN RURAL SOCIAL ORGANIZATION. I; 2 cr. The theory and practice of rural social organization related to rural population groups, to villages and small town groups, and to towns and county organization policies. Emphasis is given to research methods of study. Prerequisite: Agr. Econ. 25. Mr. Kolb.

226. LAND PROBLEMS. Yr; 2 cr. The economic status of the agricultural classes with special reference to the relations of landlord and tenant. Prerequisite: Agr. Econ. 117 or 229 or concurrent registration. Mr. Hibbard, Mr. Wehrwein.

229. ADVANCED AGRICULTURAL ECONOMICS. Yr; 2 cr. The fundamentals of economics in their application to agricultural problems. Recent works in English, German, and French will be used. Prerequisite: Agr. Econ. 1 or Econ. 1a. Mr. Hibbard.

AGRICULTURAL EDUCATION

JOHN AMBROSE JAMES, B.S., *Professor of Agricultural Education, Chairman*
KIRK LESTER HATCH, B.S., *Professor of Agricultural Education*
THOMAS LYMAN BEWICK, M.S., *Associate Professor of Agriculture*
VINCENT EARL KIVLIN, M.S., *Assistant Professor of Agricultural Education*
IVAN GLEN FAY, B.S., *Assistant Professor of Agriculture*
WARREN WILLIAM CLARK, B.S., *Associate Professor of Agricultural Extension*

Students in the College of Agriculture who wish to prepare for the teaching of agriculture in secondary schools must complete, in addition to a major, the general requirements of the Long Course in Agriculture and the fifteen credits in education required for the University Teachers' Certificate as outlined below. The major consists of a minimum of fifteen elective credits in any department of the College of Agriculture but preferably in Agricultural Education.

Students who receive the degree of Bachelor of Science (Agriculture) and who have satisfied the following requirements are entitled to receive the University Teachers' Certificate and a license to teach issued by the State Superintendent: (a) registration in the School of Education at the beginning of the junior year, (b) the recommendation of the College of Agriculture, (c) the completion of the following courses:

	Credits
Educ. 31—Principles of secondary education	3
Educ. 75—Psychology and practice of teaching	5
Agr. Educ. 1—Rural education	2
Agr. Educ. 301—Program building in vocational agriculture	2
Agron. 302—Teaching of agriculture	3
	15

Students beginning work for a certificate may arrange their courses most satisfactorily by starting to meet the requirements during the second semester of the sophomore year or the first semester of the junior year. Education 31 and 75 should definitely be completed before the beginning of the senior year. During the senior year the three courses in agricultural education are prescribed. This provides the best sequence and one which interferes least with technical subjects. Students should secure a list of the desirable technical agricultural elective courses from the chairman of the Department of Agricultural Education, and discuss with him the requirements for the certificate.

Graduates of the professional courses of the state teachers' colleges who are majoring in agriculture and who wish to qualify for the University Teachers' Certificate, should elect 8 credits as follows:

	Credits
Education (advanced)	3–4
Agricultural Education (advanced; or 302)	3
Agricultural Education 301	2

Candidates may be excused from the departmental teachers' course with the approval of the Chairman of the Department of Agricultural Education.

MAJOR. Not more than 5 credits in education taken in Letters and Science may count on the major in agricultural education. These 5 credits shall in no way be counted as a portion of the 50 credits required in the strictly agricultural subjects.

There is a demand for men trained as principals and superintendents for rural communities and small cities. Teachers' college graduates and others with teaching experience are urged to consider this opportunity. The opportunity for electives outside this college makes it possible to take many courses in the Department of Education and thus to prepare for this field.

1. RURAL EDUCATION. I; 2 cr. Origin and development of vocational education for rural communities. Problems, principles, and practices of rural education. For future leaders, farmers, and teachers. Open to sophomores. Mr. James.

5. JUNIOR EXTENSION. I; 2 cr. Place of boys' and girls' clubs in rural education. Educational values, methods of organization, leadership, meetings, demonstrations, follow-up materials, exhibits and reports. For prospective extension workers and teachers. Lectures and demonstrations. Mr. Bewick.

25. RURAL LIFE (Ag. Econ. 25). I; 3 cr. Counts as part of education major. Mr. Kolb.

100. THESIS. Yr; 2 cr. Original work on problems of agricultural extension or teaching. Staff.

103. SEMINARY. I, II; *cr. Special problems in rural education and educational problems of county agent, demonstrator, extension workers, teachers, and rural leaders. Mr. James.

110. TRAINING COURSE FOR COUNTY AGENTS. II; 2 cr. Development and administration of the county agent system. The agent's responsibilities to the federal and state governments and the community. Projects, plans for work, and county organization; relation of college specialists and local organization. Open only to seniors and graduate students. Mr. Clark.

200. RESEARCH. Yr; *cr. Topical work relative to problems of elementary, vocational, or college agricultural education; extension, county agent, or demonstration work. Mr. James, Mr. Clark.

301. PROGRAM BUILDING IN VOCATIONAL AGRICULTURE. II; 2 cr. Factors determining the program of work, directed practice, part-time and evening schools, etc., adapted to teaching agriculture in secondary schools. Prerequisites: Agr. Educ. 1 and senior standing. Mr. Kivlin.

302. TEACHING OF AGRICULTURE. I, II; 3 cr. Directed teaching based upon participation in agricultural activities of the Wisconsin High School, problems of subject matter and methods of teaching. Open only to seniors registered for a teachers' certificate. Mr. Kivlin.

AGRICULTURAL ENGINEERING

EDWARD RICHARD JONES, M.S., *Professor of Agricultural Engineering, Chairman*
FLOYD WALDO DUFFEE, B.S., *Professor of Agricultural Engineering*
FREDERICK GROVER WILSON, B.S.F., *Assistant Professor of Forestry*
OTTO REINHART ZEASMAN, B.S., *Assistant Professor of Soils and Agricultural Engineering*
MARVIN FREDERICK SCHWEERS, B.S., *Instructor in Agricultural Engineering*

Aggressive, alert men with an agricultural background supplemented by thorough training in technical engineering are in keen demand by rural power, construction, and reclamation companies and the manufacturers of farm machinery and equipment.

Students inclined toward engineering and desiring to return to their farms or to take positions as agricultural agents or farm managers or to enter the farm equipment business, are advised to major in non-technical agricultural engineering, which has no special requirement in mathematics. They are advised to take, in addition to their major studies, liberal electives in soils, agronomy, agricultural economics, and business methods. A non-technical major in agriculture may be combined with a University Teachers' Certificate giving the legal qualifications to teach in the high schools.

Those desiring to enter the more technical field, or mechanical, electrical, civil, or structural engineering as applied to agriculture, are recognized as majors in technical agricultural engineering, and are requested to consult the department chairman before or during the first semester of the freshman year so that the proper sequence of studies in mathematics, drawing, and mechanics may be followed, substituting Mathematics 51 for Mathematics 71 and then shaping Curriculum B so as to include in addition to the required courses in the College of Agriculture, Mathematics 52, 54, and 55, Drawing 1, 2, and 3, Mechanics 1 and 2, and Physics 51 and 52 in the College of Engineering. In addition to graduating

from agriculture at the end of four years, it is possible for these men to finish a course in civil, mechanical, or electrical engineering at the end of the fifth year.

Throughout the year the majors in both technical and non-technical agricultural engineering function as a student branch of the American Society of Agricultural Engineers, and during the first semester of both junior and senior years they take Agricultural Engineering 121, if possible.

About one-third of the work included in each of the courses listed below is made technical for students who have sufficient prerequisites in mathematics and mechanics; and more general for students without such prerequisites, but with more farm experience.

1. LAND SURVEYING AND DRAINAGE. I; 3 cr. Surveying and engineering as applied to land drainage. Subdivision of land, chaining, levelling, mapping, computing, and designing for drainage systems. Lectures accompanied by field work, drafting, and laboratory tests. Laying tile on university marsh. Optional subject for all agricultural students. Lab. fee $4.50. Mr. Jones.

2. FARM STRUCTURES. I; 3 cr. The arrangement, construction economics, and design of the farm house, barns, and other farm buildings. Strength and selection of materials in the economical design of farm structures. Preparation of bills of material and estimates of cost from plans and specifications. Lectures, laboratory, drafting room, and field practice. Lab. fee $2.25. Mr. Jones.

3. GAS ENGINES. I; 3 cr. Construction and operation of gasoline engines; electrical generators; application of power to farm work. It is desirable to have this course preceded by course 14. Lab. fee $4.50. Mr. Duffee.

4. CONCRETE CONSTRUCTION. II; 2 cr. Use of concrete in farm building work. Selection and proportioning of concreting materials; general principles of concrete construction. Reinforced concrete. Field practice on local concrete work. Offered 1930–31 and in alternate years. Lectures, field work, and laboratory practice. Lab. fee $2.25. Mr. Jones.

5. FARM FIELD MACHINERY. II; 3 cr. Lectures and laboratory studies on the construction and operation of tools and machinery for preparing the seed bed, sowing and planting, tilling and harvesting farm crops. Optional subject for all agricultural students. Lab. fee $2.25. Mr. Duffee.

8. DOMESTIC ENGINEERING AND PRACTICE. I; 2 cr. Water supply, sanitation, heating, and lighting of farm houses and operation of household equipment. Rope work, belt-lacing, soldering, and babbitting. Lab. fee $2.25. Mr. Schweers.

100. THESIS. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Staff.

101. ADVANCED GAS ENGINES AND FARM TRACTORS. II; 3 cr. Laboratory tests of gas engines and field practice with farm tractors. Prerequisite: Agr. Engr. 3. Lab. fee $4.50. Mr. Duffee.

102. DRAINAGE DESIGN. II; 2 cr. Preliminary and final surveys and designs for farm and community drainage systems near Madison and other convenient places. Optional work is provided for those specializing in irrigation. Field work and conferences by appointment. Prerequisite: Agr. Engr. 1 or Top. Engr. 1 and 2. Mr. Jones.

105. BELT AND TRACTOR MACHINERY. II; 2 cr. Threshers, silo fillers, and other belt-driven farm machines, large and small; tractor plow; machinery calibration tests. Lectures, laboratory studies, and field demonstrations. Prerequisites: Agr. Engr. 5 and 101 or concurrent registration. Offered 1929–30 and in alternate years. Lab. fee $2.25. Mr. Duffee.

121. SEMINARY. I; 1 cr. Review of current literature and studies of agricultural engineering problems. For juniors, seniors, and graduate students. Mr. Jones and staff.

122. EXPLOSIVES. II; 1 cr. Principles and practices in the use of explosives in agriculture and industry, including demolition of old structures and excavation for new ones. Lectures, laboratory, and field work during the spring recess. Lab. fee $2.25. Mr. Rowlands.

200. RESEARCH. I, II; *cr. Special problems in farm buildings, farm machinery, farm power, forestry, land clearing, or land drainage are assigned to advanced students who have had the necessary previous training. Lab. fee $2.25 per lab. cr. Mr. Jones and staff.

ELECTIVES IN THE COLLEGE OF ENGINEERING

SHOP 2. BENCH WORK, FORGE, AND WELDING. I, II; 1 cr. Forge and bench work in iron and steel. The processes involved in forging, welding, and brazing of iron and steel. The use of the chisel, file, and drill in finishing and fitting. Lab. fee $3.00. Mr. Hollander.

SHOP 15. GENERAL FARM CARPENTRY. I, II; 1 or 2 cr. The use and care of tools and principles involved in the construction of such structures as concrete forms and farm buildings; framing of doors and windows, and interior finishing. Lab. fee $3.00. Mr. Cluley.

ELECTIVES GIVEN BY FOREST PRODUCTS STAFF

1. FORESTRY AND UTILIZATION OF WOOD. I; 2 cr. General introductory course. Includes identification of native trees, forest conditions and forest policy in the United States and utilization of wood. Mr. Tiemann.

102. WOOD TECHNOLOGY. II; 2 cr. Includes a study of the formation, structure, and properties of wood, laboratory identification of United States species of wood. Forms a logical sequence to Course 1 but can be taken independently. Especially suited for students who expect to go into some wood-using business, or for students intending to specialize in forestry elsewhere. Mr. Tiemann.

AGRICULTURAL JOURNALISM

ANDREW WINKLE HOPKINS, B.L., *Professor of Agricultural Journalism, Chairman*
WILLIAM ALLISON SUMNER, B.S., *Associate Professor of Agricultural Journalism*
GRACE ELIZABETH LANGDON, M.A., *Instructor in Agricultural Journalism*
RUPERT HENRY RASMUSSEN, M.S., *Instructor in Agricultural Journalism*

The ability to write simple, understandable English is invaluable to the teacher, extension worker, county and home demonstration worker, and farmer. To render the greatest service the technically trained worker must use the printed page. Selling and advertising are important in the neglected half of farming—the business side. More and more farmers are coming to appreciate the need of salesmanship, sales letter writing, effective classified and display advertisement, and systematic sales campaigns.

For students returning to the farm, Agricultural Journalism 1 and 3 are suggested. For prospective teachers and extension workers, courses 1, 3 and 103 are recommended. For research workers and future college staff workers Agricultural Journalism 1, 103, and 105 are advised.

Majors in the department will be expected to take Agricultural Journalism 1, 2, 3, 100, 103, 111, 150, and 200. Courses in the Department of Journalism in the College of Letters and Science may be taken and not to exceed 5 credits from the following courses may count on the major: Journalism 2, Newspaper reporting and correspondence; Journalism 3, Copy reading; Journalism 7, Community newspaper; Journalism 104, Editorial writing.

1. WRITING FARM NEWS. I, II; 3 cr. An elementary course to help students who expect to write news articles about farming for publication in the weekly or daily papers or the various agricultural journals. Mr. Sumner.

2. PRACTICE IN EDITING. I, II; 1 cr. The editorial, business, and circulation problems of the Wisconsin Country Magazine are analyzed and actual practice given on the magazine. Mr. Sumner.

3. AGRICULTURAL ADVERTISING. II; 3 cr. How to write "want ads", advertisements to sell livestock, dairy products, fruit, berries, truck, food products; how to write the business letters of the farmer; the preparation of booklets, posters, sales bills, and other mediums. Lectures and assignments for practice. Mr. Sumner.

8. WRITING HOME ECONOMICS NEWS. I; 3 cr. A course in the fundamentals of writing home economics material. Designed to aid teachers and extension workers in publicity and to give training to students who plan to make a profession of journalism. Mr. Sumner.

100. THESIS. Yr; 2 cr. Original studies of a journalistic or advertising nature. Practical problems are investigated. Mr. Hopkins, Mr. Sumner.

103. AGRICULTURAL PUBLICITY METHODS. II; 2 cr. Outlining and finding effective methods of publicity. This course takes up the publicity campaign, the different mediums as to their advantage and uses, publicity copy, exhibits, and charts. Prerequisite: Agr. Journ. 1 or 8. Mr. Hopkins.

104. THE HISTORY OF FARM PAPERS. II; 2 cr. A survey of the farm paper field, past and present. Mr. Sumner.

105. WRITING AND EDITING FARM BULLETINS. I; 2 cr. A course for those who have to use or write station or extension bulletins and circulars. Mr. Sumner.

106. ADVERTISING SURVEY FOR HOME ECONOMICS. II; 2 cr. A general course to present to the home economics student who expects to enter the business world, a background of sales and advertising methods and practices. Mr. Sumner.

111. WRITING FARM AND HOME FEATURES. II; 2 cr. A course to follow the elementary courses in writing farm and home stories. The technique of writing the longer feature stories for the farm papers and women's magazines is given primary consideration. Prerequisite: Agr. Journ. 1 or 8. Mr. Sumner.

150. SEMINARY. I, II; 2 cr. Mr. Sumner.

200. RESEARCH. I, II; *cr. A practice problem such as confronts the county agent, scientist, publicity man, extension worker, or editor is analyzed and an effort made for a constructive solution. Advertising problems and policies such as confront the breeder or pure-bred seed grower may be studied. Prerequisite: Agr. Journ. 1, 3, or 8. Mr. Hopkins, Mr. Sumner.

AGRONOMY

RANSOM ASA MOORE, *Professor of Agronomy, Chairman*
EDMOND JOSEPH DELWICHE, M.S., *Professor of Agronomy*
LAURENCE FREDERICK GRABER, M.S., *Professor of Agronomy*
GEORGE BYRON MORTIMER, B.S., *Professor of Agronomy*
BENJAMIN DONALD LEITH, B.S., *Professor of Agronomy*
GEORGE MCSPADDEN BRIGGS, B.S., *Associate Professor of Agronomy*
ANDREW HAMILTON WRIGHT, M.S., *Associate Professor of Agronomy*
ALDEN LESCOMBE STONE, *Assistant Professor of Agronomy*
EUGENE DAVENPORT HOLDEN, M.S., *Assistant Professor of Agronomy*

GENERAL MAJOR. Students majoring in agronomy and wishing to prepare for the business of farming, farm managers, county agricultural agents, crop reporting positions, commercial positions in seed trade, or teachers of secondary school agriculture, should pursue Curriculum B, electing 10 credits from the following: Physics 61, 5 cr.; Zoology 3, 3 cr.; Geology 1, 5 cr.; Geography 4, 5 cr.; Geography 104, 2 cr.; Botany 2, 5 cr.; Chemistry 11, 3–5 cr.; Mathematics 2, 4 cr.; Mathematics 3, 3 cr. In addition the regular course requirement must be taken as prescribed.

It is suggested that the courses selected in agronomy be taken in the following order: For the sophomore year, 120, 3 cr.; 102, 2 cr.; for the junior year, 106, 3 cr.; for the senior year, 107, 2 cr.; 121, 3 cr.; 130, 3 cr.; 131, 2 cr.

General majors desiring to teach secondary school agriculture should note the regular teacher training requirements given under Agricultural Education.

SPECIAL MAJOR. Students desiring to prepare as professional agronomists such as plant breeders, either institutional or commercial research and extension specialists, teachers, or seed analysts should take a more specialized major emphasizing scientific subjects. In the sophomore year Chemistry 11, 3 cr., and Zoology 3, 3 cr., should be taken, together with an additional 4 cr. in either science or mathematics. Soils 1, 5 cr., and Agricultural Chemistry 1 and 2, 5 cr., are suggested. In the junior year, Chemistry 20, 4 cr., Botany 109, 3 cr., and Genetics 101, 3 cr. In the senior year, Chemistry 130, 5 cr., Soils 127, 2 cr., and Plant Pathology 101, 3 cr.

Departmental requirement should be followed as suggested under the general major with the addition of Agronomy 205, 2 cr., in the senior year. If graduate work is intended a foreign language should be added beginning with the junior year. A thesis may be taken in either major with the consent of the adviser. Not to exceed five credits from the following courses may be counted as a portion of the major requirement in Agronomy: Soils 120, Soil management; Soils 127, Soil science and plant nutrition; Plant Pathology 101, Diseases of plants; Plant Pathology 116, Diseases of field crops; Botany 109, Structure of economic plants; and Botany 129, Classification of cultivated plants.

1. GENERAL FARM CROPS. I, II; 3 cr. Includes a study of varieties and types, botanical relations, adaptations, cultural practices, judging, and studies of individual crops. Required of all agricultural students. Lab. fee $4.50. Mr. Mortimer.

100. THESIS. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Staff.

101. SPECIAL CROP PROBLEMS. Yr; *cr. Offered at Madison and the branch experiment stations. Lab. fee $2.25 per lab. cr. Staff.

102 PASTURES AND PASTURE PROBLEMS. I; 2 cr. Pasture studies based on kinds; best methods of establishing, maintaining and improving them; and the crops best suited to this use. Prerequisite: Agronomy 1. Mr. Mortimer.

106. FORAGE CROPS. II; 3 cr. Growing and handling forage crops, with emphasis on recent developments in relation to livestock farming. Prerequisite: Agronomy 1. Mr. Moore, Mr. Graber.

107. FORAGE PROBLEMS. II; 2 cr. Physiological, anatomical, and morphological aspects of forage plants in relation to field practices, with emphasis on food reserves, winter injury, and other agronomic problems. For seniors and graduate students. Lab. fee $4.50. Mr. Graber.

120. SEED AND WEED CONTROL. I; 3 cr. A study of the economic relations of farm seeds and weeds to profitable agriculture. Prerequisite: Agronomy 1. Lab. fee $4.50. Mr. Stone.

121. GRAIN PRODUCTION AND CROP JUDGING. II; 3 cr. Varieties, uses, distribution, and approved practices in growing, together with judging competitive farm crop displays. Prerequisite: Agronomy 1. Lab. fee $4.50. Mr. Mortimer.

130. PLANT BREEDING. II; 3 cr. Methods and principles involved in the improvement of crops. Prerequisites: Agronomy 1 and Botany 1. Mr. Leith.

131. SEMINARY. Yr; 1 cr. A review of current literature and studies of agronomic problems. For seniors and graduate students. Prerequisites: Agronomy 1 and Botany 1. Staff.

200. RESEARCH. Yr; *cr. Agronomic problems for students qualifying for advanced degrees. Given in connection with thesis or graduate study. Lab. fee $2.25 per lab. cr. Staff.

205. CROP ENVIRONMENT. II; 2 cr. Reports and discussions on the findings in fields related to crop plants, and their interrelations. Offered 1930–31 and in alternate years. Mr. Wright.

ANIMAL HUSBANDRY

GEORGE COLVIN HUMPHREY, B.S., *Professor of Animal Husbandry, Chairman*
GUSTAV BOHSTEDT, Ph.D., *Professor of Animal Husbandry*
JAMES GARFIELD FULLER, M.S., *Professor of Animal Husbandry*
ARLIE MAX MUCKS, B.S., *Associate Professor of Animal Husbandry*
JOHN MERRILL FARGO, M.S., *Assistant Professor of Animal Husbandry*
ISAAC WALKER RUPEL, M.S., *Assistant Professor of Animal Husbandry*
ARTHUR OWEN COLLENTINE, *Instructor in Animal Husbandry*
ALBERT JULIUS CRAMER, B.S., *Instructor in Animal Husbandry*
ROY THEODORE HARRIS, *Instructor in Animal Husbandry*
JAMES JEROME LACEY, *Instructor in Animal Husbandry*
BENJAMIN HAMILTON ROCHE, M.S., *Instructor in Animal Husbandry*

Two majors are offered students in animal husbandry. The practical major is intended primarily for students who intend to return to the farm either at home or as farm managers or herdsmen. Students taking this major should follow Curriculum B, electing Chemistry 12, Quantitative analysis, 3 cr., and Agr. Chem. 1 and 2, 5 cr., in their sophomore year. In the junior year they should elect Physiology 3, Animal physiology, 4 cr., in addition to animal husbandry courses in feeding, breeding, and production. In the senior year Agr. Journalism 3, Advertising, 3 cr., Dairy Husbandry 5, City milk supply, 3 cr., and Agr. Bact. 121, Dairy bacteriology, 3 cr., are suggested in addition to animal husbandry production courses.

The scientific major is planned for men desiring to go into college or experiment station work and is suggested for those intending to do extension work. For training in this field Curriculum A should be followed, electing Veterinary Science 1, 3 cr., and Dairy Husbandry 1, 3 cr., in the sophomore year. Organic chemistry should be taken in the junior year in addition to courses suggested in the practical major. In the senior year desirable electives, in addition to some production courses, are Agr. Chem. 121, Dairy chemistry, 2 or 5 cr.; Agr. Chem. 122, Animal chemistry, 2 or 5 cr.; and Genetics 101 and 102, 5 cr. Not to exceed five credits from the following courses may be counted as a portion of the major requirement in animal husbandry: Agr. Chem. 121 and 122, Genetics 101 and 102, Veterinary Science 2 and 3.

1. LIVESTOCK PRODUCTION. I, II; 3 cr. Livestock survey, breed history, judging, market classification; practical problems, lectures, and laboratory exercises. Required of all agricultural students. Lab. fee $4.50. Mr. Fuller.

100. THESIS. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Mr. Humphrey and staff.

124. ANIMAL BREEDING. II; 2 cr. The principles and approved methods relating to the breeding of livestock. Prerequisite: An. Husb. 1. Mr. Fargo.

126. LIVESTOCK FEEDING. I; 4 cr. A study of the principles of feeding and the composition of feeds; practice in formulating rations for the various classes of livestock; evaluation of feeds and feeding practices from a study of experiments and customs. Prerequisite: An. Husb. 1. Mr. Bohstedt, Mr. Rupel.

129. SHEEP PRODUCTION. II; 2 cr. A study of breed history and judging; farm flock management for production of market and pure-bred sheep, including wool-grading and judging; fattening western lambs for market. Prerequisite: An. Husb. 1. Lab. fee $2.25. Not offered 1930–31.

130. SWINE PRODUCTION. I; 3 cr. Judging of breeding and market hogs; history of the hog industry in America; systems and costs of production and marketing; the hog carcass and consumption of pork products; and the breeding, feeding, and management of breeding and market hogs. Prerequisites: An. Husb. 1 and 126. Lab. fee $4.50. Mr. Fargo.

131. HORSE PRODUCTION. I; 2 cr. Pedigree work, conformation study, judging, production problems, and fundamentals in breaking and hitching. Prerequisite: An. Husb. 1. Lab. fee $2.25. Mr. Fuller.

132. BEEF CATTLE PRODUCTION. II; 2 cr. Pedigree work, judging, feeding, and marketing beef cattle; production problems. Prerequisite: An. Husb. 1. Lab. fee $2.25. Mr. Fuller.

133. DAIRY CATTLE AND MILK PRODUCTION. II; 3 cr. Selection of animals for milk production and for breeding purposes. Present day types and breed characteristics. Herd management, advanced registry testing, calf raising, selling of surplus breeding stock. Control measures relating to quality in commercial and special grades of milk. A two-day tour to visit leading pure-bred herds, dairy equipment plants, and farms producing certified milk is required; the cost is from $10.00 to $15.00. Prerequisite: An. Husb. 1. Lab. fee $4.50. Mr. Rupel.

134. SPECIAL PROBLEMS. Yr; *cr. Special problems on feeding, management, breeding, or judging of livestock, including laboratory, library, or field work with conferences and reports. These problems will be assigned by respective members of the staff. Consent of instructor required. Lab. fee $2.25 per lab. cr. Mr. Fuller and staff.

135. ANIMAL HUSBANDRY SEMINARY. Yr; 1 cr. Studies and discussions of research work in animal husbandry and related fields; reports on articles of interest. For advanced and graduate students. Mr. Bohstedt.

200. RESEARCH. Yr; *cr. A detailed study of a definite research problem in animal husbandry. Conference on experimental methods. Lab. fee $2.25 per lab. cr. Mr. Bohstedt and staff.

DAIRY HUSBANDRY

HOWARD CAMPBELL JACKSON, Ph.D., *Professor of Dairy Husbandry, Chairman*
WALTER VAN PRICE, Ph.D., *Professor of Dairy Husbandry*
HUGO HENRY SOMMER, Ph.D., *Professor of Dairy Husbandry*
JOHN LANGLEY SAMMIS, Ph.D., *Associate Professor of Dairy Husbandry*
LOUIS CHARLES THOMSEN, B.S., *Assistant Professor of Dairy Husbandry*
HANS TJELLESEN SONDERGAARD, *Instructor in Dairy Husbandry*

The department offers instruction in the science and art of manufacturing dairy products, suited to the needs of (a) farm dairymen, (b) investigators or teachers, (c) managers, operators, or inspectors of creameries, cheese factories, city milk, ice cream plants, and condenseries.

Students majoring in dairy manufacturing should follow Curriculum B, electing Chemistry 12, 3 cr., Physics 61, 5 cr., Chemistry 20 or 120, 5 cr., Agricultural Chemistry 1 and 2, 5 cr., and Dairy Husbandry 1, 3 cr., in the sophomore year. Agr. Chem. 121, Dairy chemistry, 5 cr., and Agr. Bact. 121, Dairy bacteriology, 3 cr., should be taken in the junior year; and Dairy Husbandry 3, 4, and 5, 3 cr. each, and Dairy Husbandry 123, 2 cr., should be taken in the senior year as a minimum.

Dairy Husbandry is intimately connected with the Departments of Animal Husbandry, Agricultural Bacteriology, and Agricultural Chemistry, and with marketing given in the Department of Agricultural Economics. Students preparing for dairy manufacturing should consider courses in these departments when selecting electives related to the major.

1. INTRODUCTION TO DAIRYING. II; 3 cr. A general survey course designed to give the student an understanding of the relationship of dairy manufacturing to general farm problems. Emphasis is given to methods of quality control, judging, and elementary analysis of dairy products. Lab. fee $4.50. Mr. Jackson, Mr. Thomsen.

3. CREAMERY OPERATION AND MANAGEMENT. I; 1–3 cr. The theory and practice of cream separation, the pasteurization and handling of dairy products under commercial conditions, composition and flavor control of butter, and the management and operation of creameries. Lab. fee $2.25 per lab. cr. Mr. Jackson, Mr. Thomsen.

4. CHEESE-MAKING. I; 4 cr. A combined lecture and laboratory course to study the manufacture of cheese. Several types of cheese will be made by the students in the laboratory to acquaint them with commercial practices and to illustrate the importance of certain physical, chemical, and biological factors which influence curd-making and cheese-ripening. Lab. fee $4.50. Mr. Price.

5. CITY MILK SUPPLY AND ICE CREAM MAKING. I; 3 cr. The commercial handling of market milk and preparations. Milk ordinances and board of health regulation of milk supplies. Theory and practice of ice cream making. Lab. fee $4.50. Mr. Sommer.

8. DAIRY MECHANICS. II; 3 cr. Dairy plant construction, heating, ventilation, sewage disposal, refrigeration, installation and operation of dairy machinery. Lab. fee $2.25. Mr. Thomsen.

100. THESIS. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Staff.

102. DAIRY PRACTICE. Yr; 1–4 cr. One credit for each 48 hours of work. Lab. fee $2.25 per lab. cr. Mr. Jackson.

121. ADVANCED DAIRY MANUFACTURING PROBLEMS. Yr; 1–3 cr. Problems relating to dairy manufacturing. Lab. fee $2.25 per lab. cr. Staff.

123. SEMINARY. Yr; 1 cr. For advanced and graduate students. Mr. Sommer and staff.

124. PHYSICAL CHEMISTRY OF DAIRY PRODUCTS. II; 3 cr. Physical chemistry of dairy products, laboratory exercises on hydrogen ion concentration, oxidation-reduction potentials, surface tension, absorption, viscosity and plasticity, isoelectric point of proteins, colloidal properties of milk constituents. Offered 1929–30 and in alternate years. Lab. fee $4.50. Mr. Sommer.

200. RESEARCH. Yr; *cr. Experimental study of problems in dairy manufacturing. Lab. fee $2.25 per lab. cr. Staff.

ECONOMIC ENTOMOLOGY

HARLEY FROST WILSON, M.S., *Professor of Economic Entomology, Chairman*
CHARLES LEWIS FLUKE, JR., Ph.D., *Assistant Professor of Economic Entomology*
ALEXANDER ANASTACIEVITCH GRANOVSKY, M.S., *Assistant Professor of Economic Entomology*
GEORGE EUGENE MARVIN, M.S., *Instructor in Economic Entomology*
CLEMENT HALL GRIFFITH, B.S., *Instructor in Economic Entomology*

Students majoring in economic entomology and desiring to be trained in entomological or beekeeping research for the positions offered by the state agricultural experiment stations and the government service, should follow Curriculum B. Those preparing for entomological chemical work, especially with insecticides, should elect more work in chemistry and physics. Students pursuing specialized lines, such as biological control of insects, insect physiology, and insects in relation to plant diseases, should elect more work in plant pathology, botany, and physiology.

Those interested in the opportunities in the field of entomology and beekeeping should write to the Department of Economic Entomology for a special circular of information.

1. FARM INSECTS. II; 3 cr. A study of the insect groups, especially those in relation to the farm and home. Each student makes a collection of at least one hundred specimens, which he classifies. Optional subject for all agricultural students. Lab. fee $4.50. Mr. Fluke.

2. ELEMENTARY ECONOMIC ENTOMOLOGY. I; 3 cr. The fundamental principles of entomology are stressed, giving the student a foundation in the subject which prepares him for advanced studies of insects. Lab. fee $4.50. Mr. Fluke.

10. ELEMENTARY BEEKEEPING. I; 2 cr. Elementary principles of beekeeping with lectures and practical laboratory work. A general survey of the subject is taken up, with the fall and winter care in the apiary being stressed. Lab. fee $2.25. Mr. Marvin.

100. THESIS. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Mr. Wilson and staff.

103. ORCHARD INSECTS. II; 2 cr. A laboratory study of the life histories and controls of the principal insect pests of the orchard and bush fruits. Prerequisite: Economic Entomology 1 or 2, or Zoology 3. Offered 1930–31 and in alternate years. Lab. fee $2.25. Mr. Fluke.

105. FIELD CROP AND GARDEN INSECTS. II; 2 cr. A laboratory study of the principal insect pests of field, garden, and truck crops; their life histories and controls. Prerequisite: Economic Entomology 1 or 2, Zoology 3. Offered 1929–30 and in alternate years. Lab. fee $2.25. Mr. Granovsky.

110. COMMERCIAL HONEY PRODUCTION. II; 2 cr. Lectures and laboratory periods dealing with the yearly management of the apiary for intensified honey production, building up in the spring, swarm control, supering for the honey flow, and care of bees in the fall and winter. Lab. fee $4.50. Mr. Marvin.

120. TAXONOMY AND TOPICAL WORK. I, II; *cr. a. Biological relations of insects; physiology of insects. b. Methods in entomology and insect photography. c. Taxonomy of insects. Prerequisite: Economic Entomology 1 or 2. Lab. fee $2.25 per lab. cr. Mr. Wilson, Mr. Fluke, Mr. Granovsky.

125. INSECTS IN RELATION TO PLANT DISEASES. I; 2 cr. A study of the principal insect carriers and their habits; types of insect injuries affecting health of plants; modes of insect transmission and dissemination of plant diseases; and the methods of rearing and handling the carriers. Arranged to meet the needs of students in entomology, plant pathology, horticulture, and agronomy. Prerequisite: A course in entomology and plant pathology or consent of instructor. Lab. fee $2.25. Mr. Granovsky.

130. SEMINARY. I, II; 1 cr. For advanced and graduate students. Mr. Wilson.

200. RESEARCH. Yr; *cr. Lab. fee $2.25 per lab. cr. Mr. Wilson and staff.

FORESTRY

See Forest Products Laboratory, page 427.

GENETICS

LEON JACOB COLE, Ph.D., *Professor of Genetics, Chairman*
ROYAL ALEXANDER BRINK, D.Sc., *Associate Professor of Genetics*

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.

100. THESIS. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Mr. Cole, Mr. Brink.

101. PRINCIPLES OF BREEDING. I; 3 cr. Elementary principles of heredity in their application to plant and animal breeding. Additional prescribed reading and written reports for graduate credit. Prerequisite: A course in biology. Mr. Cole.

102. ELEMENTARY LABORATORY. I; 1–2 cr. Breeding experiments illustrating the principles of heredity. Prerequisite: Genetics 101 or concurrent registration. Lab. fee $2.25 per lab. cr. Mr. Brink and staff.

104. PLANT GENETICS. I; 3 cr. Variation and inheritance in plants, including genetics of sterility and disease resistance, and principles of plant improvement. Prerequisite: Genetics 101 or equivalent in zoology or botany. Mr. Brink.

105. ANIMAL GENETICS. II; 2 cr. Inheritance of economic characters in domesticated animals; study of animal breeding methods; evaluation and analysis of pedigrees; application of genetics to the problems of livestock production. Prerequisite: Same as for Genetics 104. Mr. Cole.

106. BIOMETRIC METHODS. II; 2 cr. Lectures and laboratory work in calculation of statistical measures of variability and correlation and their practical application. Determination and usage of probable errors of such measures and for Mendelian data. Prerequisite: Same as for Genetics 104. Lab. fee $4.50. Mr. Brink.

120. SEMINARY. Yr; 1 cr. Consent of instructor required before election. Mr. Cole.

121. TOPICAL WORK. Yr; *cr. Either (a) assigned topics in laboratory or field work with reading, conference, and report, or (b) practice work, including practical experience in the various lines of research carried on in the department; problems, technique, and methods of record keeping. For those not prepared to elect Course 200. May be taken in connection with, or subsequent to, Genetics 101; consent of instructor required. Lab. fee $2.25 per lab. cr. Mr. Cole, Mr. Brink.

200. RESEARCH. Yr; *cr. For students qualified by preliminary training. Work may be based on the analysis of available data, or upon new data acquired by experiment. The summer season offers exceptional opportunity for breeding work with both animals and plants. Opportunity is offered to a limited number of properly qualified students for research under direction during the summer. Such work may extend through the whole season and is applicable toward advanced degrees. Lab. fee $2.25 per lab. cr. Mr. Cole, Mr. Brink.

HOME ECONOMICS

For curricula, see page 307.

CLOTHING AND TEXTILES

HAZEL MANNING, M.S., *Associate Professor of Home Economics, Chairman*
BESSIE FLORILLA TYRRELL, M.A., *Assistant Professor of Home Economics*
CECELIA FRANCES ABRY, M.S., *Instructor in Home Economics*
MARION ABBIE JUAIRE, M.S., *Instructor in Home Economics*

5. INTRODUCTION TO TEXTILE STUDY. I, II; 2 or 3 cr. Includes microscopic study of fibres, commercial weaves, and physical tests of fibres and fabrics. Technique of hand and machine sewing, making of cotton garments, with special reference to comparative expenditure and wise choice of fabrics. Lecture and two laboratory periods. Lab. fee $4.50–$6.75. Miss Tyrrell, Miss Juaire, Miss Abry.

10. CLOTHING ECONOMICS. I; 2 cr. Lecture and required reading covering economic and sociological phases of the development of the ready-to-wear clothing industry in the United States. Economic study of distribution through department, chain, specialty, and mail-order houses. The psychology of advertising methods used in salesmanship. Study of family clothing budgets. Open to election by juniors and seniors in any college. Miss Manning, Miss Abry.

11. PROBLEMS IN CLOTHING CONSTRUCTION. II; 3 cr. Designing and modeling a dress, using renovated textile materials, adapting patterns, constructing a tailored garment in wool, and designing and making a gown in silk. Prerequisites: Home Economics 2, 5, 50. Lab. fee $4.50. Miss Juaire.

32. CHILDREN'S CLOTHING. II; 2 cr. Studies in choice, selection, design, hygiene, and economics of ready-to-wear versus homemade clothing for children. Case studies of shop practices; budget standards in the home. Prerequisites: Home Economics 5 and junior standing. Lab. fee $2.25. Miss Tyrrell or Miss Manning.

50. TEXTILES. I, II; 3 cr. Advanced study of chemistry of fibres, bleaching, scouring, dyeing, chemical examination of fabrics; test for adulteration of fabrics. A trip to Milwaukee to visit factories is part of the required study. Prerequisites: Home Econ. 2 and 5, Agr. Chem. 3. Lab. fee $6.00. Miss Abry.

80. TOPICAL WORK. Yr; *cr. Lab. fee $2.25 per lab. cr. Miss Manning, Miss Tyrrell, Miss Juaire, Miss Abry.

96. HOUSEHOLD CRAFTS. I; 2 cr. Lectures and laboratory work on laces, furs, ribbons, velvets, embroidery, and millinery processes. Open to juniors and seniors. Lab. fee $4.50. Miss Tyrrell.

97. ADVANCED CLOTHING CONSTRUCTION. I; 2 cr. Study of different materials as adapted to costume designing; technique design and manufacture of tailored evening and afternoon costumes. Prerequisite: Home Economics 11. Required of textile majors. Open to seniors. Lab. fee $4.50. Miss Juaire.

100. THESIS. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Miss Manning and staff.

103. ECONOMIC HISTORY OF TEXTILE INDUSTRY. II; 2 cr. A survey of the development of the textile industry from medieval industrial organization to present day problems of factory and sweat-shop work. Miss Manning.

104. HISTORY OF COSTUME IN ITS SOCIOLOGICAL ASPECTS. I; 2 cr. History of costume in classical antiquity and its subsequent development, with its periodic recurrence in design and its relation to the leisure class and to the cost of living. Open to seniors and graduates. Miss Manning.

106. SEMINARY IN HISTORY OF AMERICAN COSTUME. II; 2 cr. From the revolution to the present day. Relation of the costume to the social and economic history and growth of the United States. European influence upon materials, processes, dyes, and technique of manufacture of textiles used in relation to women's clothing. Prerequisite: Senior standing. Miss Manning.

200. RESEARCH IN TEXTILE CHEMISTRY. I, II; *cr. Lab. fee $2.25 per lab. cr. Miss Manning.

202. GRADUATE SEMINARY IN TEXTILES. I, II; *cr. Miss Manning.

353. SEMINARY IN CLOTHING METHODS. I, II; 2 cr. Planning equipment, supplies, and exhibits for high-school courses. Construction of illustrative material planned for courses of study for secondary schools. Selection of suitable material, patterns, and methods for high-school instruction. Reports and demonstrations. Required of all students who are preparing to teach clothing. Prerequisites: Home Econ. 2, 5, 10, 11, 20, 50. Lab. fee $4.50. Miss Manning and staff.

FOODS AND ADMINISTRATION

ABBY LILLIAN MARLATT, M.S., Sc.D., *Professor of Home Economics, Chairman*
BERNICE FRANCES DODGE, M.S., *Associate Professor of Home Economics*
HELEN TRACY PARSONS, Ph.D., *Associate Professor of Home Economics*
MAY LOUISE COWLES, Ph.D., *Assistant Professor of Home Economics*
RUTH ADELE HENDERSON, M.A., *Assistant Professor of Home Economics*
DOROTHY REED MENDENHALL, B.A., M.D., *Lecturer in Home Economics*
GRACE IRENE BENNETT, B.S., *Instructor in Home Economics*
DOROTHY HUSSEMAN, M.S., *Instructor in Home Economics*
KATHERINE JONES, M.A., *Instructor in Home Economics*
STELLA TROUT PATTON, M.S., *Instructor in Home Economics*
FRANCES ROBERTS, B.S., *Instructor in Home Economics*
MRS. DOROTHEA RICKABY SCHINDLAR, B.S., *Instructor in Home Economics*

1a. GENERAL SURVEY, ELEMENTARY DIETETICS. I; 2–4 cr. Detailed study of standards in diet for all ages; diet for the sick. Laboratory practice in the study of the more common foods and their preparation and service in meals for the family group. Special problems in planning low-cost meals in preparation for social welfare case-work. Open to juniors and seniors. Lab. fee $2.25 per lab. cr. Mrs. Reynolds.

3. INTRODUCTION TO FOOD STUDY. II; 3 cr. Study of the principles used in the selection and preparation of food and meal service. Prerequisite: High-school physics and chemistry, Chemistry 1a, or Biology 1. Lab. fee $4.50. Miss Marlatt and staff.

4. PROBLEMS OF FOOD SUPPLY. I; 3 cr. Effect of manufacture upon cost and quality of food; methods and apparatus used in preparation and preservation of foods; study of pure food laws; weights and measures; comparative cost studies of fuels and refrigeration; labor costs in relation to food prices. Prerequisites: Agr. Chem. 3, bacteriology, physics, Home Econ. 3. Lab. fee $4.50. Miss Patton.

6. NUTRITION AND DIETETICS. II; 2 cr. Dietary standards, balanced rations, dietary needs as modified by age, sex, occupation. Newer knowledge of body building, growth factors, relation of nutrition to physical development. How to plan meals so that family needs are met biologically and economically. Prerequisites: Home Econ. 3 and 4, Physiology 1, Agr. Chem. 3. Mrs. Reynolds, Miss Millhouse.

9. INTRODUCTION TO HOME ECONOMICS. I; 1 cr. The history of the home, social customs, and their value in the evolution of the family. Staff.

16. DIETETICS LABORATORY. II; 2 cr. Includes study of chemical and physical properties of foods, planning, preparation, and selection of foods, service of meals to meet body needs of individuals and family groups. Study of basal metabolism, a diet study upon self, and detailed dietary study of a group at the practice cottage. Nursery school dietaries planned and the pre-school child's eating habits studied. Nutrition demonstration with animals. Prerequisites: Same as for Home Econ. 6. Lab. fee $4.50. Mrs. Reynolds, Miss Millhouse, Miss Dodge.

47. DIET PROBLEMS IN FEEDING CHILDREN. I; 3 cr. Deals with food requirements of young children and studies in establishment of correct feeding habits in children in the nursery school. Lab. fee $2.25. Mrs. Reynolds, Miss Bennett.

80. TOPICAL WORK. Yr; *cr. Lab. fee $2.25 per lab. cr. Miss Marlatt and staff.

100. THESIS. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Miss Marlatt and staff.

105. EXPERIMENTAL FOOD STUDY. I; 2 cr. A laboratory course in quantitative experimental work in the field of cookery. An introduction to research work in foods and nutrition. Lab. fee $4.50. Miss Marlatt.

125. DIETOTHERAPY. I, II; 3 cr. The adaptation of diet to the disorders of nutrition. Prerequisites: Home Econ. 6 and 16. Lab. fee $2.25 per lab. cr. Miss Parsons, Miss Hauck, Mrs. Reynolds.

127. PROBLEMS IN HUMAN NUTRITION. I, II; *cr. Miss Parsons.

200. RESEARCH IN FOODS AND NUTRITION. I, II; *cr. Lab. fee $2.25 per lab. cr. Miss Marlatt, Miss Parsons.

202. TOPICAL WORK IN FOODS AND NUTRITION. I, II; *cr. Miss Marlatt, Miss Parsons.

HOUSING AND HOUSE MANAGEMENT

1b. GENERAL SURVEY, ELEMENTARY HOUSE MANAGEMENT. II; 2–4 cr. Lectures, 2 cr.; laboratory, 1 cr.; practice cottage, 1 cr. The house, its plans, and its care, so as to lessen labor, secure more sanitary conditions, and give an appreciation of fundamental factors in house decoration, cost of living, the budget, and problems in home management. Especially planned for social welfare workers. Reference work is required. Laboratory includes the house plan, color in house, scoring the room, wood finishes, textile problems, such as adulteration and cleaning, manufacturing of clothing, and supervised house practice work. Open to juniors and seniors in all colleges. Lab. fee $2.25 per lab. cr. Miss Cowles and staff.

7. HOUSE ARCHITECTURE AND SANITATION. I; 2 cr. Historic and present day architectural styles illustrated by slides and field trips. Study of problems involved in building the present day house, including choice of site, details of house construction, plumbing, heating, ventilation, lighting, sanitation. Discussion of house arrangements which save labor and time in house management. Prerequisite: Home Econ. 2. Miss Cowles, Miss Roberts.

17. HOUSE ARCHITECTURE LABORATORY. I; 2 cr. Practice in reading blue prints; planning and drawing floor plans and exteriors of one- and two-story houses suited to needs of special project. Working drawings of labor-saving details and built-in furniture. Prerequisite: Home Econ. 7 or concurrent registration. Lab. fee $4.50. Miss Cowles, Miss Roberts.

70. HOUSING THE WORKER. II; 2 cr. Lecture and discussion course dealing with the history of housing problems and of housing reform; present day standards in houses and methods of bettering housing conditions. Open to Letters and Science juniors and seniors. Miss Cowles.

72. HOME NURSING. I; 1 cr. A two-hour laboratory course in first aid and home nursing. Open to juniors and seniors in any college. Miss Murray.

80. TOPICAL WORK. Yr; *cr. Lab. fee $2.25 per lab. cr. Miss Cowles, Miss Dodge, Miss Marlatt, Miss Millhouse, Mrs. Reynolds.

100. THESIS. Yr; 2 cr. On the advice of the major professor Home Economics 80 may be substituted. Lab. fee $2.25 per lab. cr. Miss Marlatt and staff.

109. HUMANICS. II; 1–4 cr. The family and child training. Physical development of the individual from before infancy to adolescence; problems of hygiene and mental development as influenced by heredity and nutrition; effect on the home of women in industry; housing problems in home and institutions; studies in the psychology of habit formation from birth through adolescence. Observation in hospitals and in Dorothy Roberts' nursery school. Open to seniors and graduate students. Miss Marlatt, Miss Bennett.

110. HOUSEHOLD ADMINISTRATION. I; 2 cr. A study of the social and economic functions of the home, their historic and present status, with special attention given to standards of living, the management of the family income, household organization, and management. Miss Marlatt.

112. PROJECTS IN HOUSEHOLD ADMINISTRATION. I; 2 cr. Discussion, conferences, and reports to give students familiarity with the economic problems of the home. The buying problem which the purchaser for the family confronts. Problems arising from the change in character of household production. Study of fluctuations in prices of goods bought by the consumer. Study of problems connected with family income, its amount and source. Students live in the home economics cottage for laboratory practice in solution of problems. Prerequisites: Senior standing in a home economics major. Lab. fee $4.50. Miss Dodge, Miss Cowles.

120. PROBLEMS OF CONSUMPTION. II; 2 cr. The character of the consumer as spender of the family income. Examination of studies of family expenditures to gain knowledge of present day tendencies in consumption. The origin of standards for choice, the character of the goods available as it influences the choice of the buyer of the family's goods. Discussions and conferences. Content of course will be adapted to the needs of students. Miss Cowles.

202. TOPICAL WORK IN CHILD WELFARE. I, II; *cr. Miss Marlatt.

223. SEMINARY IN HOUSING PROBLEMS. II; 2–3 cr. A study of housing situation in the United States at the present time; the origin of the housing problem in the change in industrial conditions and the shift in the population from country to city; the relation of utilization of land, of transportation, and of distribution of wealth to the housing problem; evolution of the remedies for housing difficulties suggested or used in the United States or Europe, including provision of housing by the government, by employers, legislation of various types, and other remedies. Miss Cowles.

INSTITUTIONAL MANAGEMENT

22. MARKETING AND LARGE QUANTITY COOKERY. I, II; 2 cr. Time study, economic study, and marketing study in the selection, purchase, and preparation of foods in large quantities. Lab. fee $2.25. Miss Dodge, Miss Mullen.

122. ORGANIZATION AND ADMINISTRATION OF INSTITUTIONS. II; 2 cr. Organization and administration, methods of accounting in office and storeroom, taking of inventories, planning of work for employees. Miss Dodge.

133. TEA ROOM AND CAFETERIA MANAGEMENT. I, II; 3 cr. A study of the organization of tea rooms and cafeterias, necessary equipment, service problems, menu making and catering, accounting and advertising. Practice in lunch room management in departmental laboratories. A field trip to Chicago is required. Lab. fee $2.25. Miss Dodge and staff.

134. INSTITUTIONAL EQUIPMENT AND FURNISHING. I; 2 cr. A study of institutional planning and building; the selection, cost, and care of labor-saving equipment and other furnishings for hospital, dormitory, or tea room. Prerequisites: Food major, senior standing. Miss Dodge and staff.

202. TOPICAL WORK IN INSTITUTIONAL MANAGEMENT. I, II; *cr. Miss Dodge.

222. LABORATORY AND RESEARCH WORK. I, II; 2–4 cr. Detailed study of accounting and organization and labor problems as an interne in the University Commons. Lab. fee $2.25 per lab. cr. Miss Dodge.

TEACHER TRAINING

126. EXTENSION COURSE IN HOME ECONOMICS. I, II; 2 cr. A course to train extension workers for community leadership and to prepare them to cooperate with all agencies for community development. The course consists of discussions of problems in community organizations for health projects, child welfare work, community enterprises, such as cooperative buying, food centers, thrift work, laundries, and hot school lunches; the planning of projects to develop community leaders; and the consideration of principles of economics, psychology, and sociology as applied to the problems of rural life and extension work. Other than professional majors must obtain consent of instructor. Miss Marlatt and staff.

190. ADVANCED COURSE IN HOME ECONOMICS EDUCATION. I, II; 2 cr. Educational problems. For selected seniors and graduate students who are prepared to do intensive study in special educational methods and tests applied to high-school classes in home making. Miss Henderson.

194. PROBLEMS IN TEACHING RELATED ART. II; 2 cr. Studies and class discussions. Open to graduate students and for those who have had teaching experience. Miss Hillstrom.

202. TOPICAL WORK IN HOME ECONOMICS EDUCATION. Yr; *cr. Miss Henderson.

290. SUPERVISION OF HOME ECONOMICS. I; 2 cr. The course is designed to meet the needs of those who desire to become trainers of teachers in home economics. It includes detailed study of the educational literature; place of home economics in the school system; study of administrative problems; the psychological methods used in measuring quality of instruction. Miss Henderson.

352. TEACHERS' COURSE. I, II; 4 cr. Study of problems of the home economics teacher, including lesson plans, courses of study, equipment, reference and illustrative material. Observation and practice work in presentation is afforded. Open also to seniors in Letters and Science. Lab. fee $2.25 per lab. cr. Miss Henderson, Miss Jones.

353. SEMINARY IN CLOTHING METHODS. I, II; 2 cr. Planning of equipment, supplies, and exhibits for high-school courses. Construction of illustrative material planned for courses of study for secondary schools. Selection of suitable material, patterns and methods for high-school instruction. Reports and demonstrations. Required of all students who are preparing to teach clothing. Prerequisites: Home Econ. 2, 5, 10, 11, 20, 50. Lab. fee $4.50. Miss Manning and staff.

RELATED ART

MRS. RUTH SACKETT RANDOLPH, B.S., *Assistant Professor of Home Economics, Chairman*
ELLEN HILLSTROM, M.A., *Associate Professor of Home Economics*
HELEN LOUISE ALLEN, M.A., *Instructor in Home Economics*
LAURA VAN IDERSTEIN HOLMES, Ph.B., B.A.E., *Instructor in Home Economics*

The Department of Related Art aims to promote the interest in art as it relates to costume and to the home. It offers to teaching majors in home economics, to majors in industrial education and applied arts, and to students interested in commercial work, an opportunity to study design in interiors, costumes, textiles, furniture, and decorative details.

2. ART AND DESIGN. I, II; 3 cr. A study of principles underlying line, mass, and color arrangement in art related to the home and to costume. Lab. fee $4.50. Mrs. Randolph and staff.

8. HOUSE DECORATION. II; 2 cr. Illustrated lectures on historic and present day furnishings for the home. Discussions. Prerequisites: An elementary course in design and junior standing. Miss Holmes.

18. HOUSE DECORATION LABORATORY. II; 2 cr. A study of problems in planning the decoration of a selected home. Prerequisites: An elementary course in design and junior standing. Should be taken with Home Economics 8. Lab. fee $4.50. Miss Holmes.

12. COLOR IN DESIGN. II; 2 cr. A study of the relative effects in the use of colors in large and small masses in design as related to home interests. Prerequisite: An elementary course in design. Lab. fee $4.50. Miss Allen.

20. COSTUME DESIGN. I, II; 2 cr. Prerequisites: An elementary course in design and junior standing. Lab. fee $4.50. Mrs. Randolph.

80. TOPICAL WORK. Yr; *cr. Lab. fee $2.25 per lab. cr. Mrs. Randolph and staff.

93. DESIGN FOR PLAYS AND PAGEANTS. II; 2 cr. Prerequisites: An elementary course in design and junior standing. Lab. fee $4.50. Not offered 1930–31. Mrs. Randolph.

94. ADVANCED APPLIED DESIGN. II; 3 cr. Prerequisites: An elementary course in design and junior standing. Lab. fee $4.50. Mrs. Randolph.

95. PROBLEMS IN HAND LOOM WEAVING. I, II; 1–3 cr. Prerequisites: Home Economics 2 and 5, or consent of instructor. Lab. fee $2.25 per lab. cr. Miss Allen.

100. THESIS. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Mrs. Randolph and staff.

114. STUDIES AND PRACTICE IN INTERIOR DECORATING AND FURNISHING. I, II; 2 cr. Prerequisites: Home Economics 8, 18, 94, and 116 or concurrent registration. Miss Hillstrom.

116. SEMINARY IN INTERIOR DECORATING AND FURNISHING. Yr; 2 cr. Prerequisites: Senior standing and a knowledge of history and historic styles of ornament. Miss Holmes.

194. PROBLEMS IN TEACHING RELATED ART. II; 2 cr. Prerequisite: Graduate standing or teaching experience. Miss Hillstrom.

202. TOPICAL WORK IN RELATED ART. Yr; *cr. Miss Hillstrom.

HORTICULTURE

JAMES GARFIELD MOORE, M.S., *Professor of Horticulture, Chairman*
JAMES JOHNSON, Ph.D., *Professor of Horticulture*
JAMES GARFIELD MILWARD, M.S., *Professor of Horticulture*
RAY HARLAND ROBERTS, Ph.D., *Professor of Horticulture*
FRANZ AUGUST AUST, M.S., M.L.D., *Associate Professor of Horticulture*
JOHN WILLIAM BRANN, M.S., *Assistant Professor of Horticulture and Plant Pathology*
EARL FREDERICK BURK, M.S., *Instructor in Horticulture*
CONRAD LOUIS KUEHNER, B.S., *Instructor in Horticulture*
GEORGE WILLIAM LONGENECKER, B.S., *Instructor in Horticulture*
WILLIAM BUTLER OGDEN, B.S., *Instructor in Horticulture*

The courses offered in horticulture permit of the student specializing in fruit growing, landscape design, or vegetable production. The choice of electives taken in other departments to supplement horticultural courses will be determined by the specialization and the particular phase of the work the student expects to enter. Courses 1, 2, 5, 6, and 7 should be of particular interest to students specializing in other departments who are fitting themselves to be county agents, teachers in vocational or high schools, or farm managers or operators.

Majors in general horticulture may count a maximum of five credits towards the major requirement by electing Economic Entomology 1 and Plant Pathology 5. Students specializing in landscape gardening may count toward the major five credits in the above mentioned courses or in the following: Agricultural Economics 25, Applied Arts 52, 62, and Topographic Engineering 108. Such students are also referred to courses in city planning, offered by the College of Engineering; see page 280.

1. PRINCIPLES OF FRUIT GROWING. I; 3 cr. The principles of fruit growing and their application to our common tree fruits. Optional subject for all agricultural students. Lab. fee $2.25. Mr. Moore.

2. ADVANCED FRUIT GROWING. Yr; 2 cr. Lecture and laboratory work dealing with orchard practice, pruning, spraying, cultivation, harvesting, storing, and marketing fruits. Prerequisite: Hort. 1 or consent of instructor. Lab. fee $2.25. Mr. Roberts.

3. VEGETABLE GARDENING. II; 3 cr. Principles and practices involved in the growing of vegetables. Practical work in the gardens; hotbed construction and manipulation. Lectures and laboratory. Optional subject for all agricultural students. Lab. fee $4.50. Mr. Moore.

4. VEGETABLE FORCING. I; 3 cr. Principles involved in growing vegetables under glass with practical work in the forcing house. Forcing house construction and heating. Offered 1928–29 and in alternate years. Lab. fee $4.50. Mr. Moore.

5. SMALL FRUIT CULTURE. I; 2 cr. Principles and practices of the successful culture of cane, bush, and other small fruits. Mr. Moore.

6. LANDSCAPE GARDENING. I; 3 cr. Discussion of the principles of landscape art. Field and laboratory work in the study of decorative plants and making of planting plans. A trip to some nursery will be taken for the purpose of studying plant materials and nursery practice. Lab. fee $4.50. Mr. Aust, Mr. Longenecker.

7. PLANT PROPAGATION. II; 2 cr. Principles and practices involved in propagating horticultural plants. Lectures and laboratory. Lab. fee $2.25. Mr. Moore.

8. FLORICULTURE. II; 3 cr. Propagation and care of greenhouse, garden, and lawn plants with reference to home floriculture. Designed for women. Lab. fee $2.25. Mr. Moore.

11. POTATOES AND TRUCK CROPS. I; 2 cr. Lectures and laboratory work on the methods of growing and improving potatoes, including variety, identification, and disease control. Also a general consideration of the more important truck crops, as cabbage, onions, celery. Lab. fee $2.25. Mr. Milward, Mr. Brann, Mr. Burk.

100. THESIS. Yr; 2 or more cr. Research work on horticultural subjects. Fees depend upon character of thesis work. Lab. fee $2.25 per lab. cr. Mr. Aust, Mr. Johnson, Mr. Moore, Mr. Roberts.

110. SEMINARY. Yr; 1 cr. For advanced and graduate students. Mr. Roberts, Mr. Aust.

121. HORTICULTURAL PROBLEMS. Yr; 1–5 cr. The student is assigned a special problem in the phase of horticulture in which he is particularly interested: (a) fruit-growing, Mr. Roberts, Mr. Moore; (b) gardening and floriculture, Mr. Moore; (c) landscape design, Mr. Aust; (d) plant materials, Mr. Aust; (e) landscape construction, Mr. Aust. Prerequisite: Consent of the instructor. Lab. fee $2.25 per lab. cr.

122. SYSTEMATIC POMOLOGY. I; 3 cr. Classification, identification, judging and distribution of our common fruits. Prerequisite: Consent of instructor. Offered 1929–30 and in alternate years. Lab. fee $4.50. Mr. Moore.

125. ADVANCED LANDSCAPE GARDENING. II; 2 cr. Continuation of Horticulture 6. Advanced work in landscape design and drafting. A trip is taken to Lake Geneva for the purpose of studying different landscape treatments. Prerequisite: Hort. 6. Lab. fee $4.50. Mr. Aust, Mr. Longenecker.

126. RURAL IMPROVEMENT. I; 2–3 cr. A discussion of farmstead, community center, and regional planning and their relation to rural conditions. Lectures, assigned readings, reports. Prerequisite: Economics 1a. Mr. Aust.

LIBRARY

CLARENCE SCOTT HEAN, B.A., *Librarian*

1. LIBRARY PRACTICE. I; 1 cr. The classification and arrangement of books, filing of bulletins, use of card catalogs, periodical indexes, abstract journals, public documents, standard reference works, including handbooks in the various fields of knowledge, and the compiling of bibliographies. Mr. Hean.

PLANT PATHOLOGY

GEORGE WANNAMAKER KEITT, Ph.D., *Professor of Plant Pathology, Chairman*
JAMES GEERE DICKSON, Ph.D., *Professor of Plant Pathology*
BENJAMIN MINGE DUGGAR, Ph.D., *Professor of Botany and Plant Pathology*
EDWARD MARTINIUS GILBERT, Ph.D., *Professor of Botany and Plant Pathology*
LEWIS RALPH JONES, Ph.D., Sc.D., *Professor of Plant Pathology*
RICHARD ENGLISH VAUGHAN, M.S., *Professor of Plant Pathology*
JOHN CHARLES WALKER, Ph.D., *Professor of Plant Pathology*
ALBERT JOYCE RIKER, Ph.D., *Associate Professor of Plant Pathology*
JOHN WILLIAM BRANN, M.S., *Assistant Professor of Horticulture and Plant Pathology*
JOHN JEFFERSON DAVIS, B.S., M.D., *Curator of the Herbarium*
CLARICE AUDREY RICHARDS, Ph.D., *Lecturer in Forest Products*

Courses 104, 149, 220, 221, and 252 are offered in the Department of Botany, College of Letters and Science.

5. CROP DISEASES AND THEIR CONTROL. I; 2 cr. Lectures and demonstrations dealing with the occurrence, symptoms, and control of the more important diseases of the commonly cultivated crops. Lab. fee $2.25. Mr. Vaughan and staff.

100. THESIS. Yr; 2 cr. Investigation of some problem in plant pathology. Subject should be chosen early, preferably the preceding spring, in order to take advantage of the summer session to secure material. Lab. fee $2.25 per lab. cr. Mr. Jones and staff.

101. DISEASES OF PLANTS. I; 3 cr. The nature, causes, and remedies of the diseases of economic plants, including field and laboratory studies of a typical series of examples. Prerequisites: Botany 1 and Agr. Bact. 1. Lab. fee $4.50. Mr. Walker, Mr. Gilbert.

102. METHODS IN PLANT PATHOLOGY. I; 3 cr. Isolation of parasites, technique of cultural methods, spore germination, and infection. Prerequisite: Plant Path. 101. Lab. fee $4.50. Mr. Keitt and staff.

104. MORPHOLOGY OF FUNGI. I; 3 cr. Prerequisite: Botany 1. Lab. fee $3.50. Mr. Gilbert.

116. DISEASES OF FIELD CROPS. II; 2 cr. Arranged to meet the needs of students in plant pathology and agronomy. Prerequisite: Plant Path. 101. Offered 1929–30 and in alternate years. Lab. fee $2.25. Mr. Dickson.

117. Diseases of Orchard Fruits. II; 2 cr. A study of the more important diseases of deciduous orchard fruits. Prerequisite: Plant Path. 101. Offered 1929–30 and in alternate years. Lab. fee $2.25. Mr. Keitt.

119. Diseases of Timber. I; 2 cr. A survey of fungi causing rot in living trees and structural timbers, and control measures. Prerequisite: Plant Path. 101. Offered 1929–30 and in alternate years. Lab. fee $2.25. Miss Richards.

120. Diseases of Vegetable Crops. II; 2 cr. A study of the more important field and storage diseases of vegetable crops. Prerequisite: Plant Path. 101. Offered 1930–31 and in alternate years. Lab. fee $2.25. Mr. Walker.

122. Fungicides in Relation to Host and Parasite. II; 1 cr. Advanced course, primarily intended for students specializing in plant pathology and horticulture. Prerequisite: Plant Path. 101. Offered 1930–31 and in alternate years. Mr. Keitt.

149. Special Physiology of Pathogenic Fungi. II; 2 cr. Prerequisite: Botany 146. Mr. Duggar.

200. Research. Yr; *cr. Lab. fee $2.25 per lab. cr. Staff.

220. Advanced Mycology. Yr; 2 cr. Prerequisite: Botany 104. Lab. fee $2.00 per semester. Mr. Gilbert.

221. Classification of Parasitic Fungi. Yr; 1 cr. Prerequisite: Botany 104 or Plant Path. 101. Mr. Davis.

223. Seminary in Plant Pathology. Yr; 1 cr. For advanced and graduate students. Mr. Jones and staff.

252. Cytology of Fungi. II; *cr. Prerequisite: At least one semester of general cytology. Lab. fee $2.00 per cr. Mr. Gilbert.

POULTRY HUSBANDRY

James Garfield Halpin, B.S., *Professor of Poultry Husbandry, Chairman*
John Barry Hayes, B.S., *Associate Professor of Poultry Husbandry*
Clayton Ernest Holmes, B.S., *Instructor in Poultry Husbandry*
Gerald Everett Annin, B.S., *Instructor in Poultry Husbandry*

Students majoring in poultry husbandry may prepare for commercial poultry farming, for one of the various lines of commercial work with which poultry husbandry is related, or for educational work in extension, instruction, or research. Poultry majors should supplement their training by electing such courses as Animal Husbandry 126, Agr. Chem. 1 and 2, Agr. Econ. 127 and 128, and Genetics 101. Students preparing for educational work along the more scientific lines should elect Chemistry 20 or 120, Agr. Chem. 122, Zoology 103 and 105. Opportunities are provided for students majoring in poultry husbandry to become familiar with methods of poultry management by working at the university poultry plant, local hatcheries, etc. Not to exceed five credits from the following courses may be counted as a portion of the major requirement in poultry husbandry: Vet-

erinary Science 125, Diseases of Poultry; Animal Husbandry 126, Livestock feeding; Agr. Chem. 122, Animal chemistry; Agr. Econ. 127, Cooperative Marketing; Agr. Econ. 128, Marketing farm products; and Genetics 105, Animal genetics.

1. POULTRY RAISING. I; 3 cr. A general survey course designed to give the student an understanding of the various problems concerned in poultry raising. Emphasis is given to the study of the various breeds and varieties, breeding and selection for egg production, and the housing of laying hens for egg production. Optional subject for all agricultural students. Lab. fee $2.25. Mr. Halpin, Mr. Holmes.

2. POULTRY FEEDING. II; 2 cr. A study of the feeding, breeding, and management of poultry. Mr. Holmes.

5. ARTIFICIAL INCUBATION AND BROODING. II; 1–3 cr. Designed to give poultry majors and other students interested in poultry a thorough understanding of the factors influencing the hatchability of eggs; a practical study of chick embryology; practical problems in the operation of incubators and brooders. Prerequisite: Poultry Husbandry 2 or concurrent registration. Lab. fee $2.25 per lab. cr. Mr. Holmes.

8. MARKETING POULTRY PRODUCTS. I; 2 cr. A consideration of those factors tending to produce quality in market poultry. Laboratory practice in fattening, dressing, grading, and packing various classes of market poultry; a consideration of those factors tending to produce quality in market eggs. Laboratory practice in candling, grading and packing market eggs; methods of marketing poultry products. Prerequisite: Poultry Husbandry 1. Lab. fee $2.25. Mr. Holmes.

100. THESIS. Yr; 2 cr. Mr. Halpin, Mr. Holmes.

106. POULTRY JUDGING. I; 3 cr. Origin, history, and points of excellence of the various breeds and varieties of poultry as described in the American Standard of Perfection. A study of the inheritance of common characters in poultry. Prerequisite: Poultry Husbandry 1 or Genetics 101. Lab. fee $2.25. Mr. Halpin.

107. ADVANCED POULTRY MANAGEMENT. II; 3 cr. Influence of recent investigations in poultry husbandry as they affect modern methods of feeding, housing, breeding, care and management of poultry. Special emphasis on rations and practices where poultry is kept on a large scale. Prerequisites: Poultry Husbandry 1 and 2 or Animal Husbandry 126. Mr. Halpin.

200. RESEARCH PROBLEMS. Yr; *cr. Lab. fee $2.25 per lab. cr. Mr. Halpin, Mr. Holmes.

SOILS

ANDREW ROBINSON WHITSON, B.S., *Professor of Soils, Chairman*
FRED LUDWIG MUSBACH, B.S., *Professor of Soils*
EMIL TRUOG, M.S., *Professor of Soils*
CLINTON JOSEPH CHAPMAN, B.S., *Associate Professor of Soils*
EDWARD JOHN GRAUL, M.S., *Associate Professor of Soils*
OTTO REINHART ZEASMAN, B.S., *Assistant Professor of Soils and Agricultural Engineering*
ARTHUR ROBERT ALBERT, B.S., *Instructor in Soils*
HAROLD HAIGHT HULL, M.S., *Instructor in Soils*

Soils 1 is prerequisite to all other courses in soils. Soils 122 may be elected by middle course sophomores. Soils 1 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, soils bacteriology, plant physiology, agronomy, or geology, according to their special needs, during their senior and graduate years. The summer period is particularly suited to advanced work in soil fertility; for courses offered see summer session bulletin.

GENERAL MAJOR. Students majoring in soils and preparing for practical farming, positions as farm manager, teacher of agriculture, or county agricultural agent, should follow Curriculum B, taking Physics 61, 5 cr., Botany 146, 4 cr., and science or mathematics, 5 cr.; and select the courses in soils in the following order: For the sophomore year, 1, 5 cr.; 122, 3 cr.; for the junior year, 120, 2 cr.; for the senior year, 127, 2 cr.; 128, 2 cr.; and thesis, 4 cr., or 121, 4 cr. In addition to these suggestions, students are urged to elect courses in the Departments of Agronomy, Botany, Agricultural Economics, Agricultural Engineering, Animal Husbandry, Bacteriology, and Geology to supplement the required work in soils. General majors desiring to teach should consult the chairman of the Department of Agricultural Education concerning requirements not later than the beginning of the junior year.

TECHNICAL MAJOR. Students desiring to prepare for the work of soil surveying, land classification, or field experimentation should follow the general suggestions given above for the general major, but choose supplementary electives from the following group: Agr. Engr. 5, 102; Agronomy 102, 106, 120; Botany 109; Chemistry 11 or 12; Geology 1, 11; Soils 121.

Students preparing to become soil chemists should take Curriculum B with Soils 1, 5 cr., and Soils 122, 3 cr., in the sophomore year Soils 127, 2 cr., and Soils 121, 4 cr., in the junior year; and Soils 120, 2 cr., Soils 125, 3 cr., Soils 100, 4 cr., and Soils 128, 2 cr. in the senior year. In addition, Chemistry 12, 3 cr., Zoology 3, 3 cr., Geology 2, 3 cr., Agronomy 106, 3 cr., should be elected in the sophomore year; Chemistry 120, 3 or 5 cr., and a language in the junior year; and Agr. Bact. 123, 4 cr., Chemistry 130, 5 cr., Agronomy 102, 2 cr., in the senior year.

Students are urged to consult a member of the department not later than the second semester of their sophomore year so that a logical sequence of courses may be arranged. Agr. Bact. 123, Soils bacteriology, will be considered as a part of the major.

1. PRINCIPLES OF SOIL FERTILITY. I; 5 cr. Discussions and laboratory work on the formation, composition, tilth, and fertility of soils in relation to the growth of plants. Prerequisite: Chemistry 1b or concurrent registration. Lab. fee $4.50. Mr. Graul and staff.

100. THESIS. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Mr. Whitson and staff.

120. SOIL MANAGEMENT. I; 2 cr. Lectures and field work, maintenance of fertility, including principles of fertilizer practice, and adaptation of system of agriculture to type of soil and climate. Prerequisite: Soils 1. Mr. Whitson.

121. SOIL ANALYSIS. II; 4 cr. Lectures and laboratory. Soil acidity methods, limestone analysis, determination of essential elements, availability methods, complete soil analysis. The use of chemical analysis in soil diagnosis. Prerequisites: Soils 1, Chemistry 12. Lab. fee $4.50. Mr. Truog.

122. SOIL PHYSICS AND TILLAGE. II; 2–3 cr. Lectures and laboratory. The physical properties of the soil constituents, tilth, soil moisture, heat, in relation to the growth of plants, with practical applications to farm practice. Prerequisite: Soils 1. Lab. fee $2.25 per lab. cr. Mr. Graul.

125. AGRICULTURAL CLIMATOLOGY; SOIL AND LAND CLASSIFICATION. II; 3 cr. Lectures and field work in soil mapping. The principles of climatology and soil and land classification in relation to agriculture, including a study of the soils and climate of the United States and of the chief foreign countries. Prerequisite: Soils 1 or graduate standing. Mr. Whitson.

127. SOIL SCIENCE AND PLANT NUTRITION. I; 2 cr. Lectures and discussions. The constitution of the soil, especially as a medium for plant growth. The newer applications of scientific principles to such problems as soil acidity, use of fertilizers, soil amendments, and toxic agents. Prerequisite: Soils 1 or graduate standing. Mr. Truog.

128. SEMINARY IN SOILS. I, II; 1 cr. Mr. Whitson, Mr. Truog.

180. TOPICAL WORK. Yr; *cr. Mr. Whitson, Mr. Truog, Mr. Graul.

200. RESEARCH. I, II; *cr. Lab. fee $2.25 per lab. cr. Mr. Whitson, Mr. Truog, Mr. Graul.

228. FIELD COURSE. Yr; 2–4 cr. Soil and crop rotation problems, soil acidity and legumes, farm soil survey, factors determining fertility balance sheet, planning and use of experimental and demonstrational fertilizer plots. Prerequisite: Soils 1. Mr. Whitson, Mr. Musbach, Mr. Albert.

VETERINARY SCIENCE

FREDERICK BROWN HADLEY, D.V.M., *Professor of Veterinary Science, Chairman*
ALEXANDER SEPTIMUS ALEXANDER, F.H.A.S., M.D.C., *Professor of Veterinary Science*
BURR ABRAHAM BEACH, D.V.M., *Associate Professor of Veterinary Science*
CHARLES ROY STRANGE, D.V.M., *Instructor in Veterinary Science*

The courses described below have been planned to give the students an appreciation of the various branches of veterinary science. They are taught largely by the laboratory method. Besides giving information needed for the intelligent care and management of sick animals, they aid advanced students to secure a knowledge of animal breeding, animal pathology, and veterinary bacteriology.

1. THE ANIMAL BODY. I; 3 cr. The structure, functions, and derived products of the animal body. The student learns about the form, capacity and productivity of farm animals as well as the fundamentals relative to their feeding and breeding. Optional subject for all agricultural students. Lab. fee $4.50. Mr. Hadley.

2. DISEASES OF HORSES AND SWINE. II; 2 cr. Their causes, symptoms, prevention and treatment, including conformation and soundness. Mr. Hadley.

3. DISEASES OF CATTLE AND SHEEP. I; 2 cr. Their causes, symptoms, prevention, and treatment. Mr. Hadley, Mr. Alexander.

100. THESIS. Yr; 2 cr. Mr. Hadley, Mr. Beach.

124. TOPICAL WORK. Yr; *cr. Assigned work for advanced students. Mr. Hadley and staff.

125. DISEASES OF POULTRY. II; 2 cr. A study of the more common diseases of poultry. Prerequisite: Vet. Science 1 or Poultry Husb. 1. Offered 1929–30 and in alternate years. Mr. Beach.

126. INFECTION AND IMMUNITY. II; 3 cr. An experimental study of the principles of infection and immunity. Prerequisite: A course in bacteriology. Offered 1930–31 and in alternate years. Lab. fee $4.50. Mr. Hadley and staff.

200. RESEARCH. Yr; 2 cr. Lab. fee $2.25 per lab. cr. Mr. Hadley, Mr. Beach.

PART V—
THE UNDERGRADUATE SCHOOLS

LAW SCHOOL
MEDICAL SCHOOL
SCHOOL OF NURSING

LAW SCHOOL

WILLIAM HERBERT PAGE, B.A., LL.M., S.J.D., *Jackson Professor of Law*
OLIVER SAMUEL RUNDELL, LL.B., *Professor of Law*
JOHN DUNNE WICKHEM, B.A., LL.B., *Professor of Law*
RAY ANDREWS BROWN, B.A., LL.B., S.J.D., *Associate Professor of Law*
WILLIAM GORHAM RICE, JR., LL.B., M.A., S.J.D., *Associate Professor of Law*
NATHAN PAUL FEINSINGER, B.A., J.D., *Assistant Professor of Law*
ALFRED LEROY GAUSEWITZ, B.A., LL.B., *Assistant Professor of Law*
CHARLES OSCAR GREGORY, B.A., LL.B., *Assistant Professor of Law*
HOWARD LEWIS HALL, B.A., LL.B., *Assistant Professor of Law*
MALCOLM PITMAN SHARP, M.A., LL.B., S.J.D., *Assistant Professor of Law*
FRANK TILDEN BOESEL, Ph.B., LL.B., *Lecturer in Law*
PHILIP FOX LA FOLLETTE, B.A., LL.B., *Lecturer in Law*
MARVIN BRISTOL ROSENBERRY, LL.B., LL.D., *Lecturer in Law*
JOHN BELL SANBORN, Ph.D., *Lecturer in 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.

ADMISSION

This subject, so far as it bears upon entrance into the University, is fully discussed under the general heading of Admission, page 33.

CANDIDATES FOR THE DEGREE. Applicants for admission to the Law School who expect to become candidates for the degree of Bachelor of Laws are required to have satisfactorily completed three full years of college work, equivalent to the first three years of either of the General Courses (B.A. or Ph.B.) in the College of Letters and Science of this University. See pages 56–61 for further details. The satisfactory completion of three years of work in a general course toward a bachelor's degree in arts, philosophy, or science in any college or university officially recognized by the University of Wisconsin will be regarded as satisfying this requirement.

ADVANCED STANDING. Applicants who are qualified to enter the Law School as candidates for a degree, and who have satisfactorily completed one or more years of resident work in a law school of good standing, having a three-year course, will be given equivalent rank in this school upon presenting properly authenticated certificates of such work. The right is reserved to give credit only on examination and to withdraw credit given if the student's work in this School is unsatisfactory. All persons who intend to apply for advanced standing under the above rule should forward or present their credentials to the Dean of the School at least two weeks before the opening of the particular session which the student desires to attend.

UNCLASSIFIED STUDENTS. Applicants for admission who are not candidates for the law degree may be admitted as unclassified students provided they have met the general university entrance requirements and have satisfactorily completed two full years of college work, equivalent to the first two years of a general course in the College of Letters and Science at this University. Such unclassified students are subject to all the regulations and requirements of the School excepting those pertaining to graduation, and they are entitled to all the instructional facilities afforded other students. An opportunity is thus given to prepare for bar examinations in this and other states.

FEES AND EXPENSES

See section entitled Student Expense, beginning on page 15.

Receipts showing the payment of fees must be filed with the Dean within ten days after entry.

PRE-LEGAL STUDIES

The student should bring to the study of law, habits of concentration and industry and the intellectual tolerance that results from a course of liberal studies in a college of liberal arts. No prescribed course is practicable or desirable. A student whose interests and tastes incline him to the study of law will naturally select many electives from the field of the social sciences—economics, sociology, history, philosophy, psychology, political science. (See recommendations of the Law School faculty, section 10, page 55.) A knowledge of Latin is not indispensable to law but its study is strongly recommended, not only for its disciplinary and cultural value, but as a means of developing a clear English style in writing and speaking. The fundamental doctrines of the law dealing with the rights of the person and of property should be studied in their historical background. A student preparing for law should be well grounded in the history of England and the United States, particularly in those courses of an institutional character. Students who desire to pursue advanced work in Roman law, jurisprudence, or the history and philosophy of law, will find a reading knowledge of German and French indispensable.

As described in detail in section 9, page 54, students of the College of Letters and Science, who have completed the requirements of the first three years of one of the general courses may, in their senior year, elect the subjects required of first-year students in the Law School and credit this work toward both the arts and law degrees. By so arranging his work, a student may secure his B.A. degree at the end of four years and his LL.B. degree at the end of an additional two years, plus the period of office apprenticeship as described below under the heading of Graduation, paragraph (3).

REQUIRED AND ELECTIVE COURSES

Candidates for the degree are required to take all the subjects of the first year, twelve hours of work in the second year, and twelve hours in the third year. The work of the second and third years is elective. Second-year students may elect not less than twelve nor more than fourteen hours in courses offered in the second year. Second-year students who are graduates of the College of Letters and Science and who have not completed all the courses of the first year will be required to include such omitted courses in their list of electives. Third-year students may elect not less than twelve nor more than fifteen hours in courses offered in the third year and in courses not already taken by them when second-year students. 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 Evidence, four credits; Office Practice, two credits; Pleading, four credits; Practice, four credits; Practice Court, 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 prepares pleadings in assigned cases and carries a cause of action through the various steps from its inception to the final judgment. The course in office practice involves the drafting of ordinary legal documents, such as bills of sale, deeds, wills, and articles of incorporation, and the examination of abstracts of title.

STUDIES OUTSIDE THE LAW SCHOOL

Students of the Law School may pursue, without additional fees, studies in other departments of the University for which they are prepared, in so far as such studies do not interfere with their work in the Law School. Before registering in other departments, the student must obtain permission from the Dean of the Law School. Credit toward the law degree will be granted for Economics 208; no credit toward the law degree is given for other studies taken outside the Law School.

REQUIREMENTS FOR GRADUATION

The degree of Bachelor of Laws will be conferred upon all candidates who are at least 21 years of age, who are of good character, who, in the judgment of the Faculty, possess satisfactory legal attainments, and who have complied with the following conditions:

(1) At least 74 credits with a weighted average of 77.

(2) Residence of at least three years in a law school of good standing, having a three-year course, the last year of which must have been in this School.

(3) An apprenticeship of not less than six months in a law office, except as provided below. This requirement must be absolved at a time when the candidate is not in attendance upon the University. At the option of the candidate the requirement may be met by two periods of not less than three months each. The requirement must be entirely absolved after the

student shall have received credit for not less than twenty semester hours in the Law School. Credit for office study will not be granted unless the student complies with the following regulations: (a) At the beginning of the clerkship, he must file a certificate by his preceptor stating the date on which the clerkship began. (b) A like certificate showing the date of completion of the clerkship must be filed at the completion of the period. (c) A monthly report, signed by the student and endorsed by the preceptor, showing the kind and amount of work assigned to the student during the period of the report must also be filed.

A candidate for graduation who has obtained credit for the courses in evidence, pleading, practice, office practice, and practice court, who has obtained at least 82 credits with a weighted average of C, and who has a residence of at least three years and three months in a law school of good standing, having a three-year course, the last year of which must have been in this School, will be relieved from the requirement of office clerkship.

Students completing the course with distinguished excellence may 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. 256.28.)

Under this statute and a rule of the federal court, it is customary for the graduating class, on motion of a member of the Faculty, to be admitted to the Supreme Court of the state and to the district and circuit courts of the United States immediately upon graduation. This entitles them to admission to the bar of any court of record in Wisconsin and all federal courts in the state.

THE ORDER OF THE COIF

The Order of the Coif is an honorary legal society having for its purpose the encouragement of scholarship and the advancement of ethical standards in the legal profession. Membership in it is dependent entirely upon the attainment of high scholastic standing. The name of the society is taken from the Order of Sergeants of the English bar. This Order is now extinct, but during its day it represented a select group of lawyers eminent for learning and professional attainments. The society has chapters in most of the leading law schools of the country. The Wisconsin chapter was established in 1907. Candidates for the law degree are elected to membership during the last semester of their third year.

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.

LIBRARY

The library of the Law School contains 39,500 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; Australian Reports; the Reporter System; the various series of selected cases, as: American Decisions; American Reports; American State Reports; Lawyers Reports Annotated; Ruling Case Law; Corpus Juris; American Law Reports; British Ruling Cases; duplicates of the more important reports; complete sets of the leading law periodicals; the leading encyclopedias of law and other works of reference; a large collection of textbooks, statutes, digests, etc.

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. Professor Howard L. Smith held the professorship until his retirement in June 1926, and Dean Harry S. Richards from 1926 until his death in April 1929. Since June 1929 Professor W. H. Page has been the incumbent.

SUMMER SESSION

June 23 to August 29, 1930

The summer session of the Law School extends over a period of ten weeks. The work is carried on in the same manner and with the same thoroughness as during the regular session. Courses are arranged to meet the needs of beginning and advanced students. The courses are the equivalents of those given in the first, second, and third years of the long session and carry full credit toward the law degree. Full work during the summer session consists of twelve hours per week. Written examinations are held at the completion of the courses. Students successfully completing courses aggregating twelve hours per week for the summer will receive credit for one-third of a regular academic year's work. The session thus enables students of this and other law schools and teachers or students in the College of Letters and Science who have completed the equivalent of three years of college work to shorten considerably the calendar period of residence required here and elsewhere for the law degree. The courses are so arranged as to be of service to practicing lawyers who may wish to pursue systematic investigation of particular subjects.

During the summer of 1930 the following courses will be offered: For first-year students: Contracts and Introduction to Law. For second and third year students: Agency, Conveyancing, Damages, Equity II, Insurance, Municipal Corporations, Partnership, Public Service Companies, Quasi-Contracts and Suretyship.

COURSES OF INSTRUCTION

Abbreviations used in the announcement of courses:
Yr—a continuous course extending through two semesters
I—course given during the first semester
II—course given during the second semester
cr.—number of credit hours per semester

FIRST YEAR

CONTRACTS. Yr; 3 cr. Mr. Page.
CRIMINAL LAW. Yr; 2 cr. Mr. LaFollette, Mr. Gausewitz.
EQUITY I. II; 3 cr. Mr. Rice.
INTRODUCTION TO LAW. I; 2 cr. Mr. Rice.
LAW CLUB WORK. I; 1 cr. Mr. Sharp.
PERSONAL PROPERTY. I; 2 cr. Mr. Brown.
REAL PROPERTY. II; 2 cr. Mr. Rundell.
TORTS. Yr; 3 cr. Mr. Gregory.

SECOND AND THIRD YEARS

ADMINISTRATIVE ACTIONS. I; 2 cr. Mr. Brown.
AGENCY. I; 3 cr. Mr. Feinsinger.
BANKRUPTCY. I; 2 cr. Mr. Hall.
BILLS AND NOTES. II; 4 cr. Mr. Wickhem.
BUSINESS ASSOCIATIONS (Seminary). II; 2 cr. Mr. Wickhem.
BUSINESS WRONGS. II; 3 cr. Mr. Sharp.
CONFLICT OF LAWS. II; 3 cr. Mr. Page.
CONSTITUTIONAL LAW. II; 4 cr. Mr. Brown.
CONVEYANCING. I; 3 cr. Mr. Rundell.
CORPORATIONS. I; 4 cr. Mr. Wickhem.
CRIMINAL LAW (Seminary). II; 2 cr. Mr. LaFollette.
DAMAGES. II; 2 cr. Mr. Hall.
EQUITY II. I; 3 cr. Mr. Gausewitz.
EVIDENCE. I; 4 cr. Mr. Wickhem.
FUTURE INTERESTS. II; 4 cr. Mr. Rundell.
HISTORY OF LAW. I; 2 cr. Mr. Page.
INSURANCE. I; 3 cr. Mr. Gausewitz.
INTERNATIONAL LAW. II; 3 cr. Mr. Rice.
LABOR LAW (Seminary). I; 2 cr. Mr. Rice, Mr. Witte.
LEGAL ETHICS. II; 1 cr. Justice Rosenberry.
MORTGAGES. I; 2 cr. Mr. Rundell.
MUNICIPAL CORPORATIONS. II; 2 cr. Mr. Hall.
OFFICE PRACTICE. II; 2 cr. Mr. Gausewitz.
PARTNERSHIP. II; 3 cr. Mr. Feinsinger.
PERSONS. I; 2 cr. Mr. Feinsinger.
PLEADING. Yr; 2 cr. Mr. Boesel.
PRACTICE. Yr; 2 cr. Mr Sanborn.
PRACTICE COURT. I; 1 cr. Mr. Gausewitz.
PUBLIC SERVICE COMPANIES. I; 4 cr. Mr. Rice.
QUASI-CONTRACTS. II; 2 cr. Mr. Feinsinger.
SALES. I; 3 cr. Mr. Hall.
SERVITUDES. II; 3 cr. Mr. Feinsinger.
SURETYSHIP. I; 2 cr. Mr. Hall.
TAXATION. II; 3 cr. Mr. Brown.
TRUSTS. II; 4 cr. Mr. Hall.
WILLS. I; 3 cr. Mr. Page.
WILLS (Seminary). I; 2 cr. Mr. Page.

MEDICAL SCHOOL

C. R. BARDEEN, DEAN

ADMISSION

It is understood that all applicants for admission to the Medical School must have satisfied the general entrance requirements of the University, either by satisfactory completion of certain prescribed work in some recognized secondary school, including graduation therefrom, or by passing entrance examinations. See Admission, page 33, for details.

Before being permitted to matriculate in the Medical School, candidates are required to have satisfactorily completed at least two full years of college work, including the following:

1. English composition—6 credits. This subject is to be carried during the freshman year at the rate of 3 credits per semester.

2. Foreign language—two years for a total of 14 to 16 credits. This includes specifically: (a) a knowledge of elementary Latin, obtained by the satisfactory completion of either two years of this language in high school or one year in college; (b) a reading knowledge of either French or German, as evidenced by the completion of the fourth semester of this language at the University of Wisconsin with a satisfactory grade, or by a certificate of reading knowledge from the appropriate department at this University. If the candidate has had no high-school work in Latin, French, or German, it will be necessary for him to carry 24 to 26 credits of foreign language in college unless he can secure a reading knowledge of French or German by private study.

3. Science—successful completion of laboratory courses in physics, general and organic chemistry, biology, and vertebrate embryology. (Provision is made for studying this latter subject during the first year of the medical course in the event that a student should be unable to meet this requirement before matriculation in the Medical School.) In addition, students are advised to take one semester of quantitative analysis and a course in comparative anatomy before commencing their medical work. The required science studies are here briefly summarized; they or their equivalents may be pursued either at the University of Wisconsin in the regular year or the summer session, or in some other college.

	Credits	Hours of Class Work	Hours of Lab. Work
General chemistry and qualitative analysis	10	128	192
Organic chemistry	4–6	48	96
General physics	10	128	128
Biology, preferably animal biology	10	128	192
Vertebrate embryology	2	16	48
	36–38	448	656

ADMISSION WITH ADVANCED STANDING

FIRST-YEAR CLASS: A student wishing to apply for admission to this class should send an official copy of his premedical credentials to the Dean of the Medical School not later than May 1 of the year in which he wishes

to matriculate. If the credentials are satisfactory, an application blank will be sent to the candidate for admission, to be filled out and returned to the Dean of the Medical School.

All students entering from other institutions are required to pass a reading knowledge examination in either German or French given by the appropriate department at Wisconsin before the time of matriculation.

SECOND-YEAR CLASS: There is seldom a vacancy in this class and students from other institutions are not encouraged to apply for admission.

THIRD- AND FOURTH-YEAR CLASSES: At the present time no applications to these classes are accepted.

COURSES OF STUDY AND DEGREES

The Medical School offers a four-year course leading to the degree of Doctor of Medicine. The requirements are outlined below. The Graduate School offers the degrees of Master of Arts, Master of Science, Master of Public Health, Doctor of Public Health, and Doctor of Philosophy to students who complete their requirements for these degrees by work in the medical sciences. The College of Letters and Science grants the degree of Bachelor of Science, Medical Science Course, to students who complete two years of prescribed premedical work and the first two years of the regular medical course; also the degree of Bachelor of Arts to students who complete the regular requirements for this degree as described on pages 58–60 and who during their senior year complete a major in medical science. See section 17, page 58.

CHOICE OF PREMEDICAL COURSES

The student who enters the College of Letters and Science with the intention of studying medicine should arrange at the office of the Assistant Dean of the Medical School a schedule of studies which will enable him to complete the required premedical college work within the period which he desires to devote to preparation for the medical course.

The minimum time required for the completion of this premedical work is two years. If three or four years are spent on premedical college work, the student has the choice of either broadening his course of study or of taking more advanced work in some special line. All good American medical schools now require at least two years of premedical college work, many require at least three years of college work, and a few require a bachelor's degree for entrance. If a student expects to take his medical course or to complete the clinical part of it elsewhere, he should keep this in mind when arranging the premedical schedule. He should likewise acquaint himself with the special premedical requirements maintained by the school of his choice.

The general regulations governing freshmen and sophomores in the College of Letters and Science apply to premedical students, excepting that those in the two-year course are permitted to take 17 or 18 credits per semester as circumstances may require. See pages 50–56. Each candidate for a bachelor's degree in either of the premedical courses is required to present a graduating thesis, the subject of which must be approved by the student's adviser and the chairman of the department of his major. This 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.

PREMEDICAL CURRICULA

RECOMMENDED SEQUENCE FOR THE TWO-YEAR COURSE

LEADING EVENTUALLY TO THE DEGREE OF BACHELOR OF SCIENCE, MEDICAL SCIENCE COURSE

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman English	3	Engl. 1b—Freshman English	3
Chem. 1a—General chemistry	5	Chem. 1b—Qualitative analysis	5
Physics 1 or 31—General physics	5	Physics 1 or 31—General physics	5
French 1a or German 1a	4	French 1b or German 1b	4
Physical activity requirement	0	Physical activity requirement	0
	17		17

SOPHOMORE YEAR

Chem. 20, 21, or 120, 121—Organic chem.	4–5	Anat. 115—Embryology	2
Zoology 1—Animal biology	5	Zoology 2 or 104	5
French 10a or German 2a	3–4	French 10b or German 2b	3–4
Latin 1—Elementary Latin	5	Latin 2—Caesar	5
Elective if Latin was taken in high school	(3–4)	Elective if Latin was taken in high school	(3–4)
Physical activity requirement	0	Physical activity requirement	0
	16–18		15–16

RECOMMENDED SEQUENCE FOR THE THREE-YEAR COURSE

LEADING EVENTUALLY TO THE DEGREE OF BACHELOR OF ARTS

FRESHMAN YEAR

Engl. 1a—Freshman English	3	Engl. 1b—Freshman English	3
Chem. 1a—General chemistry	5	Chem. 1b—Qualitative analysis	5
French 1a or German 1a	4	French 1b or German 1b	4
History or mathematics	3–4	History or mathematics	3–4
Physical activity requirement	0	Physical activity requirement	0
	15–16		15–16

SOPHOMORE YEAR

Engl. 30a or 33a—Sophomore literature	3–2	Engl. 30b or 33b—Sophomore literature	3–2
Chem. 20 or 120—Organic chemistry	4–5	Zoology 2 or 104	5
Zoology 1—Animal biology	5	French 10b or German 2b	3–4
French 10a or German 2a	3–4	Elective	5
Physical activity requirement	0	Physical activity requirement	0
	15–16		15–16

JUNIOR YEAR

Physics 1 or 31	5	Anat. 115—Embryology	2
Foreign language	4–5	Physics 1 or 31	5
Latin 1—Elementary Latin	5	Latin 2—Caesar	5
Electives if foreign language and Latin were pursued in high school	(10)	Foreign language	4–5
		Electives if foreign language and Latin were pursued in high school	(8)
	15		15

MEDICAL COURSES

Two courses are offered, a two-year course and a four-year course.

The two-year course, established in 1907, covers the first half only of a four-year medical curriculum and embraces certain basal and intermediate groups of studies. Combined with the two years of premedical work outlined above, this course leads to the degree of Bachelor of Science, Medical Science Course. On completion of this course, the student is expected to go elsewhere to complete the medical curriculum. Owing to the fact that opportunities for admission to the third year are few in most medical schools, this course is ordinarily limited to forty-eight students. Selection is made on the basis of premedical scholarship. Students are not promoted to the second year of the course until the completion of all of the required work of the first year with grades of fair or better.

The four-year course, established in 1925, embraces the basal and intermediate groups of the two-year course and in addition two years of clinical instruction at Madison and at the associate clinical teaching centers. Students are required to obtain a bachelor's degree before being admitted to the two years of clinical instruction. Upon the successful completion of the latter, the degree of Doctor of Medicine is granted. Owing to the necessity of restricting clinical instruction at the Wisconsin General Hospital so as to make such instruction facilitate, not hamper, care of patients, this four-year class is limited to forty-eight students or fewer. Selection is made on the basis of premedical scholarship. Students are not promoted from one year of the course to the next unless the required work of the year is completed with an average grade of B, with a grade of C+ or better in all subjects.

Transfer from the two-year to the four-year course can be made only in case vacancies occur in the latter. When such transfers occur, selection of students to fill vacancies will be made on the basis of preceding scholarship.

DEGREES

The Medical School grants the degree of Doctor of Medicine to students who complete the requirements of the four-year course leading to this degree.

The College of Letters and Science grants the degree of Bachelor of Science (Medical Science Course) to students who complete two years of prescribed premedical work and the first two years of the medical course, and the degree of Bachelor of Arts to students who complete the requirements for this degree and at the same time elect work in the Medical School.

The graduate school offers the degrees of Master of Arts, Master of Science, Master of Public Health, Doctor of Philosophy, and Doctor of Public Health to students who complete the requirements for these degrees in the medical sciences.

COURSE IN MEDICINE

LEADING TO THE DEGREE OF DOCTOR OF MEDICINE

FIRST YEAR

First Semester	Credits	Second Semester	Credits
Anatomy 110—Histology and organology	4	Anatomy 121—Gross anatomy	5
Anatomy 121—Gross anatomy	7	Anatomy 126—Neural anatomy	4
Physiological Chemistry 104	4	Physiology 105—Medical physiology	7
Physiology 105—Medical physiology	2		
	17		16

SECOND YEAR

Bact. 102—Medical bacteriology	4	Medicine 102—Clinical laboratory diagnosis	3
Hygiene 101—Public health	2	Medicine 111—Medical diagnosis	2
Pathology 101—General pathology	5	Pathology 101—General pathology	2
Medicine 110—Physical diagnosis	3	Pharmacology 104-105	4
Thesis	2	Surgery 102—Surgical clinics	1
		Surgery 103—Elements of surgery	1
		Thesis	2
	16		15

THIRD YEAR

First Semester	Credits	Second Semester	Credits
Medicine 301—Third-year medicine	6	Medicine 301—Third-year medicine	5
Medicine 305—Therapeutics	1	Medicine 312—Neuropsychiatry	2
Medicine 310—Pediatrics	1	Surgery 301—Third-year surgery	4
Medicine 315—Dermatology	1	Surgery 311—Rhinology, otolaryngology	1
Surgery 301—Third-year surgery	6	Surgery 315—Orthopedics	1
Surgery 310—Ophthalmology	1	Surgery 325—Urology	1
Obstetrics 330—Obstetrics and gynecology	2	Obstetrics 330—Obstetrics and gynecology	1
		Surgery 314—Plastic surgery	1
		Physical Therapy 316	1
		Radiology 320—Radiography and radiotherapy	1
	18		18

FOURTH YEAR

Hygiene 401—Sanitation and public health	1
Medicine 401—Internal medicine	4.5
Medicine 410—Pediatrics	3
Medicine 412—Neuropsychiatry	3
Medicine 415—Dermatology	1.5
Medicine 420—Medical jurisprudence and ethics	1
Obstetrics 406	2
Physical Therapy 416	1.5
Radiology 405—Applied radiology	1.5
Surgery 401—Surgery	4.5
Surgery 410—Ophthalmology	1.5
Surgery 411—Rhinology, laryngology, otology	1.5
Surgery 425—Urology	1.5
Physical examinations	2
Specific elective work	14
Free elective work	4
	48

DEPARTMENTS OF INSTRUCTION

For a description of the courses in botany, zoology, chemistry, physics, psychology, and languages, see departmental announcements in the College of Letters and Science.

Abbreviations used in the announcement of courses:
Yr—a continuous course extending through two semesters
I—course given during the first semester
II—course given during the second semester
I, II—semester course given each semester
cr—number of credit hours per semester
*—to be arranged

Courses numbered from 1 through 100 are open for credit to undergraduates only; from 101 to 199 to both undergraduates and graduates; over 200 to graduates only, or very exceptionally to advanced undergraduates.

ANATOMY

WALTER EDWARD SULLIVAN, Ph.D., *Professor of Anatomy, Chairman*
CHARLES RUSSELL BARDEEN, B.A., M.D., *Professor of Anatomy*
WILLIAM SNOW MILLER, M.D., Sc.D., *Professor of Anatomy, Emeritus*
THEODORE HIERONYMUS BAST, Ph.D., *Associate Professor of Anatomy*
FREDERICK DENKMAR GEIST, M.D., *Assistant Professor of Anatomy*
HARLAND WINFIELD MOSSMAN, Ph.D., *Assistant Professor of Anatomy*
OTTO AXEL MORTENSEN, M.S., M.D., *Instructor in Anatomy*
JOHN HOLDEN ROBBINS, B.S., M.D., *Instructor in Anatomy*

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. The laboratory is thoroughly equipped with apparatus, models, books, and materials for advanced as well as elementary work. For those prepared to carry on advanced research, special laboratory facilities are provided.

39. PHYSICAL EDUCATION ANATOMY. I; 4 cr. Lectures and laboratory work for students of physical education. Prerequisite: Zoology 1. Lab. fee $5.00. Dr. Bardeen.

110. HISTOLOGY AND ORGANOLOGY. I; 4 cr. The study of the tissues, followed by the study of the minute structure of the mammalian organs. Prerequisites: Junior standing, Zoology 1. Lab. fee $15.00. Dr. Bast, Dr. Geist, and staff.

115. MAMMALIAN EMBRYOLOGY. II; 2 cr. The development of the pig is studied by means of dissection and the use of microscopic preparations. Human embryology is studied from sections, special preparations, and models. Prerequisite: Zoology 1. Lab. fee $5.00. Dr. Bardeen, Dr. Mossman.

120. HUMAN ANATOMY. II; 6 cr. For students of physical education. Prerequisite: Zoology 3. Lab. fee $10.00. Dr. Bardeen.

121. HUMAN ANATOMY. Yr; 12 cr. In this course a thorough training is offered in the dissection of the human body and in descriptive human anatomy. Prerequisites: Junior standing, Zoology 1. Lab. fee $17.50 per semester. Dr. Bardeen, Dr. Sullivan.

122. TOPOGRAPHICAL ANATOMY. Yr; 2–4 cr. This course is offered in two forms:—one may either study frozen sections and special preparations or make a second dissection of the human body. Not more than two credits can be counted toward thesis. Prerequisite: Anatomy 121. Lab. fee $5.00. Dr. Robbins.

126. NEURAL ANATOMY. II; 4 cr. Dissection of the human brain and study of the microscopic anatomy of the central nervous system and sense organs. Prerequisite: Anatomy 110. Lab. fee $10.00. Dr. Geist, Dr. Bast.

131. HISTORICAL SEMINARY. II; 1 cr. Dr. Miller.

200. RESEARCH. *cr. To qualified students the department is prepared to offer problems for investigation and training in methods of research. Special arrangements for this work may be made with the individual members of the staff. The department also welcomes independent investigators who wish to make use of its facilities for conducting research in anatomy. Lab. fee $5.00.

HYGIENE

In conjunction with the staffs of the State Laboratory of Hygiene, the Wisconsin Psychiatric Institute, the State Board of Health, and the Boards of Health of the cities of Milwaukee and Madison, courses in hygiene are offered by members of the Faculty of the Medical School under the general supervision of Dr. Stovall.

5. DISEASE PREVENTION. II; 2 cr. The more important aspects of personal and public hygiene; designed especially for students who desire a knowledge of how to promote their own health and that of the community. Dr. Clark.

101. PUBLIC HEALTH. I; 2 cr. Lectures and field work for medical students. Given in conjunction with Bacteriology 102. Prerequisite: Second-year medical standing. Dr. Clark, Dr. Harper, Dr. Stovall.

102. BACTERIOLOGY FOR HEALTH OFFICERS. I; 4 cr. Given in conjunction with medical bacteriology but with special work in the State Laboratory of Hygiene and some special lectures. Lab. fee $15.00. Dr. Clark, Dr. Stovall.

106. PHYSIOLOGY FOR HEALTH OFFICERS. II; 5 cr. Given in conjunction with Physiology 105 and 107 but with special reference to the needs of health officers. Special topics in respiration, dietetics, chemistry of food, air, water, sewage, etc. Dr. Eyster, Dr. Dawson.

401. PRACTICAL FIELD WORK. I, II; 1 cr. Prerequisite: Fourth-year medical standing.

MEDICAL DIVISION

GENERAL MEDICINE

JOSEPH SPRAGG EVANS, B.A., M.D., *Professor of Medicine, Chairman*
ROBERT VAN VALZAH, B.A., M.D., *Professor of Clinical Medicine*
RAY CARRINGTON BLANKINSHIP, M.D., *Associate Professor of Clinical Medicine*
WILLIAM SHAINLINE MIDDLETON, M.D., *Associate Professor of Medicine*
SARAH ISABELLE MORRIS, M.D., *Associate Professor of Clinical Medicine*
ELMER LOUIS SEVRINGHAUS, M.A., M.D., *Associate Professor of Medicine*
KARVER LOUIS PUESTOW, M.S., M.D., *Assistant Professor of Clinical Medicine*
JOHN HUSTON, M.A., M.D., *Supervisor of Extra-Mural Teaching in Medicine*
HARRY MAXWELL KAY, M.D., *Associate in Clinical Medicine*
JOHN EDWARDS BENTLEY, B.S., M.D., *Instructor in Clinical Medicine*
ALBERT JAY BONER, B.S., M.D., *Instructor in Clinical Medicine*
CHESTER MOTT KURTZ, M.S., M.D., *Instructor in Medicine*
LINDLEY VINCENT SPRAGUE, M.D., *Instructor in Clinical Medicine*
MARION ESTHER STARK, B.A., *Instructor in Clinical Chemistry*
FRANK LAWRENCE WESTON, M.D., *Instructor in Clinical Medicine*
PATRICIA M. WERRELL, B.A., *Instructor in Electrocardiography*

110. PHYSICAL DIAGNOSIS. I; 3 cr. Normal physical diagnosis. Prerequisites: Anatomy 110, 115, 121, 126; Physiology 105. Lab. fee $5.00. Dr. Van Valzah.

111. MEDICAL DIAGNOSIS. II; 2 cr. Pathological clinical diagnosis. Prerequisites: One semester each of Pathology 101, Bacteriology 102, Medicine 110. Lab. fee $5.00. Dr. Van Valzah.

118. PHYSICAL EXAMINATION. I, II; 3 cr. For students in physical education. Prerequisites: Anatomy 39 or 120; Physiology 3 or 115. Dr. Elsom, Dr. Morris.

200. ADVANCED WORK AND RESEARCH. *cr.

301. THIRD-YEAR MEDICINE. Yr; 11 cr. Lectures, clinics, conferences, and ward work. Prerequisites: Medicine 102, 110, 111; Surgery 102, 103. Lab. fee $25.00. Dr. Evans, Dr. Middleton, and staff.

305. THERAPEUTICS. I, II; 1 cr. Prerequisites: Medicine 102, 111. Given in conjunction with Department of Pharmacology. Dr. Evans and staff.

306. ADVANCED WORK AND RESEARCH IN THERAPEUTICS. *cr. Given in conjunction with Department of Pharmacology.

401. FOURTH-YEAR MEDICINE. I, II; 4½ cr. Prerequisites: Medicine 301; Surgery 301.

CLINICAL PATHOLOGY

WILLIAM DAVISON STOVALL, M.D., *Professor of Hygiene*
JOSEPH WARREN JACKSON, B.A., M.D., *Instructor in Clinical Pathology*

102. CLINICAL LABORATORY DIAGNOSIS. II; 3 cr. Prerequisites: Bacteriology 102, Pathology 101, Physiological Chemistry 104. Lab. fee $10.00. Dr. Stovall and staff.

DERMATOLOGY

OTTO HOTTINGER FOERSTER, M.D., *Professor of Dermatology*
HARRY ROBERT FOERSTER, B.S., M.D., *Assistant Professor of Dermatology*
ROSCOE LYLE MCINTOSH, B.S., M.D., *Assistant Professor of Dermatology*

200. ADVANCED WORK AND RESEARCH. *cr.

315. DERMATOLOGY. I; 1 cr. Prerequisites: Medicine 102, 111.

415. FOURTH-YEAR DERMATOLOGY. I, II; 1½ cr. Prerequisite: Medicine 315. Through the courtesy of the Drs. Foerster of Milwaukee, this course is given in Milwaukee, and through the courtesy of the directors of the Milwaukee City Dispensary, the work is in part carried on there.

MEDICAL JURISPRUDENCE AND MEDICAL ETHICS

420. MEDICAL JURISPRUDENCE AND MEDICAL ETHICS. 1 cr. Assigned reading and examination.

PEDIATRICS

JOHN EUGENE GONCE, JR., B.A., M.D., *Associate Professor of Pediatrics*
HORACE KENT TENNEY, M.D., *Assistant Professor of Pediatrics*

200. RESEARCH. *cr.

310. PEDIATRICS. I; 1 cr. Prerequisites: Medicine 102, 111.

410. FOURTH-YEAR PEDIATRICS. I, II; 3 cr. Prerequisite: Medicine 310. Through the courtesy of the Board of Directors and of the Medical Staff of the Children's Hospital of Milwaukee, each fourth-year student is given three weeks' special training in pediatrics at this hospital. This work is given by members of the staff of the hospital, of which Dr. A. J. Kastner is at present chief.

NEUROPSYCHIATRY

WILLIAM FREDERICK LORENZ, M.D., *Professor of Neuropsychiatry*
WILLIAM JEFFERSON BLECKWENN, B.S., M.D., *Assistant Professor of Neuropsychiatry*
HANS HEINRICH REESE, M.D., *Assistant Professor of Neuropsychiatry*
MORTON KAY GREEN, M.D., *Clinical Associate in Neuropsychiatry*
AUGUST SAUTHOFF, B.S., M.D., *Clinical Associate in Neuropsychiatry*
MARY BLAKELIDGE SAUTHOFF, M.D., *Clinical Associate in Neuropsychiatry*
MABEL GARDEN MASTEN, B.S., M.D., *Instructor in Neuropsychiatry*

112. PROBLEMS IN NEUROPSYCHIATRY. *cr. Dr. Lorenz and staff.

200. RESEARCH. *cr.

312. THIRD-YEAR NEUROPSYCHIATRY. II; 2 cr. Prerequisites: One semester of Medicine 301 and Surgery 301. Dr. Lorenz and staff.

412. FOURTH-YEAR NEUROPSYCHIATRY. I, II; 3 cr. Prerequisite: Neuropsychiatry 312.

OBSTETRICS AND GYNECOLOGY

JOHN WARTON HARRIS, M.D., *Professor of Obstetrics and Gynecology, Chairman*
CARL SAMUEL HARPER, B.S., M.D., *Assistant Professor of Obstetrics and Gynecology*
RALPH EMERSON CAMPBELL, B.S., M.D., *Assistant Professor of Obstetrics and Gynecology*

200. ADVANCED WORK AND RESEARCH. *cr.

330. OBSTETRICS AND GYNECOLOGY. I, 2 cr; II, 1 cr. Prerequisites: Medicine 301 (I); Surgery 301 (I). Lab. fee $5.00. Dr. Harris and staff.

406. FOURTH-YEAR OBSTETRICS. I; 2 cr. Prerequisite: Obstetrics 330. Through the courtesy of the Directors of the Chicago Lying-In Hospital and of Dr. J. B. DeLee and Dr. E. L. Cornell, this course is given in Chicago.

PATHOLOGY AND MEDICAL BACTERIOLOGY

CHARLES HENRY BUNTING, B.S., M.D., *Professor of Pathology, Chairman*
PAUL FRANKLIN CLARK, Ph.D., *Professor of Medical Bacteriology*
GRAEME CANNING, M.A., Ph.D., *Instructor in Medical Bacteriology*
FRANCES ELIZABETH HOLFORD, Ph.D., *Instructor in Medical Bacteriology*
GORTON RITCHIE, M.D., *Instructor in Pathology*

101. GENERAL PATHOLOGY. I, ⅓ II; 7–8 cr. The principles of general human pathology and the essentials of pathological anatomy. The laboratory exercises are devoted mainly to a study of pathological histology and to demonstrations of gross morbid specimens. Prerequisites: Anatomy 110, 115, 126. Lab. fee I, $15.00; II, $5.00. Dr. Bunting and staff.

102. MEDICAL BACTERIOLOGY. I; 4 cr. This course, which is especially designed for medical students, considers the bacteria and protozoa that are chiefly concerned in the production of disease processes. Weekly lectures in immunology. Prerequisites: Chemistry 1, Zoology 1. Lab. fee $15.00. Dr. Clark, Dr. Canning, Miss Holford.

103. EXPERIMENTAL PATHOLOGY. II; 4 cr. In this course the work of Pathology 101 is supplemented and elaborated by suitable experiments. May be taken for thesis credit. Prerequisites: Anatomy 110, 115, 126. Dr. Bunting.

104. IMMUNOLOGY. II; 2–4 cr. May be taken as a thesis course. It includes experimental work with all of the known antibodies and weekly conferences on the fundamental theories of immunology. Open to a limited number of students who have completed Bacteriology 102. Lab. fee $2.00 per cr. Dr. Canning, Dr. Clark.

106. ADVANCED BACTERIOLOGY. I, II; *cr. Lab. fee $2.00 per cr. Dr. Clark, Dr. Canning.

108. BACTERIOLOGY JOURNAL CLUB. Yr; 1 cr. Dr. Clark.

200. ADVANCED PATHOLOGY. II; *cr. Lab. fee $5.00. Dr. Bunting.

301. CLINICAL PATHOLOGY CONFERENCES. Given as a part of Medicine 301. Dr. Bunting and members of medical and surgical staffs.

PHARMACOLOGY AND TOXICOLOGY

ARTHUR LAWRIE TATUM, Ph.D., M.D., *Professor of Pharmacology*
MAURICE HARRISON SEEVERS, Ph.D., *Assistant Professor of Pharmacology*
ROBERT PORT HERWICK, M.S., *Instructor in Toxicology*

101. TOXICOLOGY. II; 1 cr. Prerequisites: Physiology 105, Physiological Chemistry 104. Lectures on the general action of toxic drugs, diagnosis of poisoning, treatment and the mode of conducting an autopsy when the tissues are to be subsequently examined chemically in medico-legal cases. Mr. Herwick.

104. PHARMACOLOGY. II; 2 cr. Prerequisites: Physiology 105, Physiological Chemistry 104. Lectures on the chemistry, the pharmacological and toxicological action, and the therapeutic uses of the chief medical drugs. Practice in prescription writing. Dr. Tatum, Dr. Seevers.

105. PHARMACOLOGY. II; 2 cr. Prerequisites: Physiology 105, Physiological Chemistry 104. Laboratory course. Experimental studies on the action of drugs. Lab. fee $17.00. Staff.

120. JOURNAL CLUB. Yr; 1 cr. A meeting is held weekly. Advanced students are expected to report from time to time upon current papers dealing with pharmacology and toxicology.

200. RESEARCH. *cr. Independent investigation. The facilities of the laboratory are available to qualified persons. Lab. fee $5.00.

222. SEMINAR IN PHYSIOLOGY, PHARMACOLOGY, AND PHYSIOLOGICAL CHEMISTRY. Yr; 1 cr.

PHYSIOLOGICAL CHEMISTRY

HAROLD CORNELIUS BRADLEY, Ph.D., *Professor of Physiological Chemistry, Chairman*
EDGAR JOHN WITZEMANN, Ph.D., *Assistant Professor of Physiological Chemistry*
HARRY DANIEL BAERNSTEIN, M.S., *Instructor in Physiological Chemistry*

104. PHYSIOLOGICAL CHEMISTRY. I; 4 cr. Lectures, conferences, and laboratory work. Required for first-year medical students and open to others as an elective. Prerequisites: Chemistry 1 and 20 or 120, Physics 1, Zoology 1. Lab. fee $15.00; deposit $5.00. Dr. Bradley, Dr. Witzemann.

114. PHYSIOLOGICAL CHEMISTRY. I; 3 cr. Lectures, conferences, and laboratory work. Required of juniors in physical education and open to others as an elective. Prerequisites: Chemistry 1, Physics 1, Zoology 1 or 3. Lab. fee $7.00; deposit $5.00. Dr. Bradley.

117. ADVANCED PHYSIOLOGICAL CHEMISTRY AND RESEARCH. II; *cr. Lab. fee $2.50 per cr; deposit $5.00. Dr. Bradley, Dr. Witzemann.

120. JOURNAL CLUB. Yr; 1 cr. Dr. Bradley.

200. RESEARCH. *cr. Lab. fee $5.00.

222. SEMINAR IN PHYSIOLOGY, PHARMACOLOGY, AND PHYSIOLOGICAL CHEMISTRY. Yr; 1 cr.

PHYSIOLOGY

WALTER JOSEPH MEEK, Ph.D., *Professor of Physiology, Chairman*
JOHN AUGUSTINE ENGLISH EYSTER, B.S., M.D., *Professor of Physiology*
PERCY MILLARD DAWSON, B.A., M.D., *Associate Professor of Physiology* (on leave 1930–31)
FRANCES ANNA HELLEBRANDT, B.S., M.D., *Assistant Professor of Physiology*
RAYBURN CASTLE AUSTIN, M.A., *Instructor in Physiology*
HANCE FRANCIS HANEY, M.A., *Instructor in Physiology*
HELEN LORRAINE HOOPES, B.S., *Instructor in Physiology*
RAYMOND CLYDE HERRIN, Ph.D., *Instructor in Physiology*

1. ELEMENTS OF HUMAN PHYSIOLOGY. I; 4 cr. Lectures, quizzes, and demonstrations giving a general knowledge of the structure and functions of the human body. Especially adapted for teachers. Prerequisite: An elementary course in chemistry. Lab. fee $3.00. Dr. Meek.

3. ANIMAL PHYSIOLOGY. II; 4 cr. Especially designed for students in agriculture and physical education for men, but open to others. Lab. fee $3.00. Dr. Meek and staff.

4. PHYSIOLOGY, BACTERIOLOGY, AND HYGIENE. I, II; 6 cr. Lab. fee $5.00. Open only to students in the course in nursing.

105. MEDICAL PHYSIOLOGY. I, 2 cr; II, 7 cr. Lectures, recitations, demonstrations, and laboratory. Required of first-year medical students and open to others as an elective. Prerequisites: Anatomy 110, 121, 126; Physiological Chemistry 104. Lab. fee $17.00. Dr. Meek, Dr. Eyster.

115. PHYSIOLOGY. Yr; 5 cr. Lectures, recitations, demonstrations, and laboratory. Required of juniors in physical education for women and open to others as an elective. Prerequisites: Comparative anatomy, physiological chemistry. Lab. fee I, $13.00; II, $11.00. Dr. Hellebrandt, Miss Hoopes.

120. JOURNAL CLUB. Yr; 1 cr. Reports of recent physiological and biochemical literature. Dr. Meek.

200. ADVANCED PHYSIOLOGY AND RESEARCH. Yr; *cr. Lab. fee $5.00. Dr. Eyster, Dr. Meek, Dr. Hellebrandt.

222. SEMINAR IN PHYSIOLOGY, PHARMACOLOGY, AND PHYSIOLOGICAL CHEMISTRY. Yr; 1 cr.

RADIOLOGY AND PHYSICAL THERAPY

ERNST ALBERT POHLE, M.D., Ph.D., *Professor of Radiology, Chairman*
JAMES CLAUDE ELSOM, M.D., *Associate Professor of Physical Therapy*
ERNST A. SCHMIDT, M.D., *Assistant Professor of Radiology*
FRED JENNER HODGES, B.S., M.D., *Lecturer in Radiology*

1. X-RAY TECHNIQUE. *cr. Lectures and laboratory work. Lab. fee $5.00. Dr. Schmidt.

200. GRADUATE WORK AND RESEARCH. *cr. The facilities of the laboratory are available for carrying out any investigation in the field of radiology and physical therapy. Dr. Pohle.

316. PHYSICAL THERAPY. II; 1 cr. In this course the fundamentals of mechano-, light-, electro-, and hydro-therapy and their clinical indications are considered. Prerequisites: Medicine 301 (I); Surgery 301 (I). Dr. Elsom.

320. RADIOGRAPHY AND RADIOTHERAPY. II; 1 cr. Lectures and demonstrations to third-year students. Prerequisites: Medicine 301 (I); Surgery 301 (I). Lab. fee $5.00. Dr. Hodges, Dr. Schmidt.

405. APPLIED RADIOLOGY. I, II; 1½ cr. Plate interpretation and clinic in X-ray and radium therapy. Prerequisite: Radiology 320. Dr. Pohle, Dr. Hodges, Dr. Schmidt.

416. APPLIED PHYSICAL THERAPY. I, II; 1½ cr. Prerequisite: Physical Therapy 316. Dr. Elsom.

SURGICAL DIVISION

GENERAL SURGERY

ERWIN RUDOLPH SCHMIDT, B.A., M.D., *Professor of Surgery, Chairman*
PHILLIPS FOSTER GREENE, B.A., M.D., F.A.C.S., *Associate Professor of Surgery*
JOSEPH WASSON GALE, M.A., M.D., *Associate Professor of Surgery*
RALPH MILTON WATERS, B.A., M.D., *Associate Professor of Surgery*

102. SURGICAL CLINICS. II; 1 cr. Prerequisites: Anatomy 121; Pathology 101 (I); Physiology 105.

103. ELEMENTS OF SURGERY. II; 1 cr. Prerequisites: Anatomy 121; Pathology 101 (I); Bacteriology 102, Physiology 105. Dr. Schmidt.

200. ADVANCED WORK AND RESEARCH. *cr.

301. THIRD-YEAR SURGERY. Yr; 5 cr. Lectures, conferences, ward work, and clinics. Prerequisites: Medicine 110, 111; Surgery 102, 103. Lab. fee $25.00. Dr. Schmidt and staff.

401. FOURTH-YEAR SURGERY. I, II; 4½ cr. Prerequisites: Medicine 301; Surgery 301.

OPHTHALMOLOGY

FREDERICK ALLISON DAVIS, M.D., *Professor of Ophthalmology*
EUGENE NEFF, B.A., M.D., *Associate Professor of Ophthalmology*

200. ADVANCED WORK AND RESEARCH. *cr. Dr. Davis and staff.

310. OPHTHAMOLOGY. I; 1 cr. Prerequisites: Medicine 110, 111; Surgery 102, 103. Lab. fee $2.50. Dr. Davis and staff.

410. FOURTH-YEAR OPHTHALMOLOGY. I, II; 1½ cr. Prerequisites: Surgery 310, 311.

RHINOLOGY, LARYNGOLOGY, AND OTOLOGY

WELLWOOD MACK NESBIT, M.D., *Associate Professor of Otolaryngology*

200. ADVANCED WORK AND RESEARCH. *cr. Dr. Nesbit and staff.

311. RHINOLOGY, LARYNGOLOGY, AND OTOLOGY. II; 1 cr. Prerequisites: Medicine 110, 111; Surgery 102, 103. Lab. fee $2.50. Dr. Nesbit.

411. FOURTH-YEAR RHINOLOGY, LARYNGOLOGY, AND OTOLOGY. I, II; 1½ cr. Prerequisites: Surgery 310, 311.

ORTHOPEDIC AND PLASTIC SURGERY

GEORGE VAN INGEN BROWN, M.D., D.D.S., F.A.C.S., *Professor of Oral and Plastic Surgery*
FREDRICK JULIUS GAENSLEN, B.S., M.D., *Professor of Orthopedic Surgery*
ROBERT EMMETT BURNS, B.S., M.D., *Associate Professor of Orthopedic Surgery*
HERMAN SCHUMM, B.S., M.D., F.A.C.S., *Associate Professor of Orthopedic Surgery*
VOLNEY BUTMAN HYSLOP, M.D., *Instructor in Oral and Plastic Surgery*

200. RESEARCH. *cr.

314. PLASTIC SURGERY. II; 1cr. Prerequisites: Medicine 301 (I); Surgery 301 (I).

315. ORTHOPEDICS. II; 1 cr. Prerequisites: Medicine 301 (I); Surgery 301 (I). Includes five lectures on fractures.

UROLOGY

IRA ROSCOE SISK, Phar.D., M.D., *Professor of Urology*
JOHN BREWSTER WEAR, B.A., M.D., *Assistant Professor of Surgery*

200. ADVANCED WORK AND RESEARCH. *cr.

325. UROLOGY. II; 1 cr. Prerequisites: Medicine 301 (I); Surgery 301 (I).

425. FOURTH-YEAR UROLOGY. I, II; 1½ cr. Prerequisite: Surgery 325.

SCHOOL OF NURSING

HELEN I. DENNE, DIRECTOR

ORGANIZATION AND AIMS

The School of Nursing of the University of Wisconsin is organized in association with the Medical School of the University and with the State of Wisconsin General Hospital. The coordinating committee of the school is composed of the Dean of the Medical School, the Superintendent of the Hospital, and the Director of the School, who has charge of the immediate administration. There is close affiliation between the school and other departments of the University. In the field of public health nursing the school has the cooperation of the Bureau of Public Health Nursing of the State Board of Health.

The aims of the school are:

1. To give adequate training in the sympathetic care of the sick.
2. To promote academic education as an aid to professional experience.
3. To stimulate advanced training and research in special fields of work within the realm of nursing.

ADMISSION REQUIREMENTS

For matriculation in the School of Nursing a student must furnish evidence that she has satisfied the general requirements for admission to the University, as stated under Part III, Admission, page 33.

Students desiring to enter either the three-year or a five-year combined course are requested to communicate with the Registrar of the University, and for more specific details regarding these courses with the Director of the School of Nursing, University of Wisconsin.

EXPENSE

During the period of pre-professional training, the minimum for which is one semester, the student is subject to the same conditions as other students in the University and must provide for her room, board, and incidental expenses and pay the usual general and laboratory fees. For the required semester of pre-professional work in the three-year course the laboratory fees amount to $25.00. This makes the total laboratory and other fees for residents of Wisconsin $45.50. The non-resident tution fee is $100.00 per semester. Board and room cost from $10.00 per week upwards for 16 weeks, making a total expense of about $200, in addition to laundry, clothing, and various incidentals. During the period of resident professional instruction no fees are charged, and room, board, and laundry are furnished the students.

A detailed discussion of student expense, including university charges, loan funds and scholarships, self-support, etc., may be found on page 15.

THREE-YEAR COURSE

LEADING TO THE TITLE OF GRADUATE NURSE

Upon the completion of at least one semester of academic college work, including the special subjects outlined below and 32 months of professional training in residence in the School of Nursing, a certificate of Graduate Nurse will be granted.

PRE-HOSPITAL SEMESTER

Candidates for the certificate of Graduate Nurse who have had no college work or whose college work has not included work in chemistry and physiology are required to take the following special pre-hospital academic work before being admitted to residence in the School of Nursing. This work is offered the first semester of each year.

	Credits
English 1a—Freshman composition	3
Chemistry 1a—General chemistry	5
Physiology 4—Physiology, bacteriology, and hygiene	6
Nursing 1—Principles of nursing	2
Physical education	0
	16

RESIDENT PROFESSIONAL INSTRUCTION

This course consists of 32 months in residence in the Nurses' Dormitory. During this period the student has instruction in medicine, surgery, and principles of nursing, ward practice in the wards and out-patient departments of the hospital, and practical training in public health nursing. The resident instruction is divided into five half years of academic and professional education and two additional months of special training. In each half year there are one semester of four months of academic and ward work, six weeks (52 hours per week) of ward or field work, and two weeks of vacation. The semester work is arranged in the following sequence:

FIRST SEMESTER

	Credits
Therapeutics 1—Materia medica	3
Dietetics 1—Selection, preparation, and serving of food for the sick	2
Med. and Surg. 1—Recognition and treatment of disease	2
Nursing 2—Elementary principles of nursing	2
Ward work—6 hours daily	
Physical education	

SECOND SEMESTER

Med. and Surg. 2—Health, disease, and therapy in infancy and childhood	6
Med. and Surg. 5—Communicable diseases	1
Nursing 3—Care of infants and children	2
Ward work—6 hours daily	

THIRD SEMESTER

Med. and Surg. 3—Nervous and mental health, disease, and therapy	3
Med. and Surg. 4—Health, disease, and therapy of the eye, ear, nose, mouth, throat, and skin	2
Med. and Surg. 5—Physical therapy	1
Nursing 4—Special Technique	2
Ward work—6 hours daily	

FOURTH SEMESTER

Med. and Surg. 6—Obstetrics and gynecology	2
Med. and Surg. 7—Medicine and urogenital surgery	2
Nursing 5—Social problems from the standpoint of nursing and dietetics	4
Ward work—6 hours daily	

FIFTH SEMESTER

Electives	6
Ward work—8 hours daily	

FIVE-YEAR COMBINED COURSES

Two courses are offered of combined academic and resident professional instruction leading to the degree of Bachelor of Science and certificate of Graduate Nurse in five years.

The College of Letters and Science grants the degree of Bachelor of Science, Hygiene, to students who successfully complete six semesters of work, as outlined below, in the College of Letters and Science, and 27 months of work in the School of Nursing.

The College of Agriculture grants the degree of Bachelor of Science, Home Economics, to students who successfully complete six semesters of work, as outlined below, in the Course in Home Economics, and 27 months of work in the School of Nursing.

RESIDENT PROFESSIONAL INSTRUCTION

The resident professional instruction consists of 27 months in residence in the Nurses' Dormitory. During this period the student has instruction in medicine, surgery, and principles of nursing, ward practice in the wards and out-patient departments of the hospital, and practical training in public health nursing. The resident instruction is divided into four half years of academic and professional education and three additional months of special training. In each half year there are one semester of four months of academic and ward work, six weeks (52 hours per week) of ward or field work, and two weeks of vacation. The semester work is given as outlined above under the three-year course, excepting that physical education is not required and that the fifth semester is omitted.

COMBINED COURSE, COLLEGE OF LETTERS AND SCIENCE

This course leads to the degree of Bachelor of Science, Hygiene. The following specific requirements must be satisfactorily met:

ENGLISH. 10 credits as follows: 6 credits in composition, 3 credits per semester for two semesters, to be taken in the first year of residence; 4 credits in literature, to be taken normally in the sophomore year. Students securing a grade of A in the first semester of composition may, if they so desire, omit the second semester of it.

FOREIGN LANGUAGE. Two years of either French or German in college if students do not meet the foreign-language requirement for the B.A. degree.

HISTORY. 6 credits in a continuous year course; or mathematics, 8 credits.

SCIENCE. Chemistry 1, 10 credits; Physiology 4, 6 credits; Nursing 1, 2 credits.

ECONOMICS, SOCIOLOGY, AND PSYCHOLOGY. 16 credits, including Economics 1a, Sociology 1, 2, and 141, and Psychology 1; or 16 credits of science in addition to Chemistry 1, including biology, 10 credits, and organic chemistry, 4 credits.

ELECTIVES. A sufficient number of electives must be taken to bring the total amount of work in the College of Letters and Science up to 94 credits and 94 grade-points, including major study and thesis.

MAJOR STUDY. By the beginning of the junior year every candidate should be well started in her major study which must be chosen from the majors offered in the College of Letters and Science, including majors in the medical sciences. This major must include a thesis, to be prepared during the final years of the combined course.

CREDITS. A total of 128 credits and 128 grade-points, including 94 required by the College of Letters and Science and 34 earned during the required 27 months of resident professional instruction.

SEQUENCE OF SUBJECTS

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Engl. 1a—Freshman composition	3	Engl. 1b—Freshman composition	3
Chem. 1a—General chemistry	5	Chem. 1b—General chemistry	5
History or mathematics	3–4	History or mathematics	3–4
French or German	3–4	French or German	3–4
Physical education	0	Physical education	0
	14–16		14–16

SOPHOMORE YEAR

Engl. 33a—English literature	2	Engl. 33b—English literature	2
French or German	3–4	French or German	3–4
Optional subjects	8–11	Optional subjects	8–11
Biology 1–5 cr.		Biology 1–5 cr.	
Chemistry 20, 21, or 120, 121 3–4 cr.		Chemistry 120, 121 3–5 cr.	
Economics 1a 4 cr.		Sociology 2–3 cr.	
Psychology 1–3 cr.		Psychology 1–3 cr.	
Sociology 1–3 cr.			
Physical education	0	Physical education	0
	14–16		14–16

JUNIOR YEAR

Physiol. 4—Physiology, bacteriology, and hygiene	6	Junior year Electives	15
Nursing 1	2		
Optional subjects	3–6		
Sociology 141—3 cr.			
Free option—3 cr.			
Electives	1–4		
	15		15

COMBINED COURSE, DEPARTMENT OF HOME ECONOMICS

This course leads to the degree of Bachelor of Science, Home Economics. The following specific requirements must be satisfactorily met:

Completion of the required work of the freshman and sophomore years of the Course in Home Economics, as outlined on page 307.

Completion of the following additional courses: Home Economics 7 and 17, 47, 6 and 16, 22, 133; English 33b; Anatomy 120 or Physiology 4; and Nursing 1.

Thesis, 4 credits.

Electives sufficient to bring the total credits of work required by the Department of Home Economics up to 94, including thesis.

Twenty-seven months of resident professional instruction in nursing.

A total of 128 credits and 128 grade-points, including 94 required by the Department of Home Economics and 34 earned during the period of resident professional instruction.

DEPARTMENTS OF INSTRUCTION

For a description of the courses in botany, zoology, chemistry, physics, psychology, history, economics, sociology, English, and the foreign languages, see departmental announcements in the College of Letters and Science. For home economics see departmental announcements of the College of Agriculture. For the medical sciences, anatomy, physiology, bacteriology, hygiene, pharmacology and toxicology, see departmental announcements of the Medical School.

Abbreviations used in the announcement of courses:

Yr—a continuous course extending through two semesters
I—course given during the first semester
II—course given during the second semester
I, II—semester course given each semester
cr—number of credit hours per semester

DIETETICS

HELEN GIESSEL, B.S., *Instructor in Dietetics*
LENORE HEALEY, B.S., *Assistant in Dietetics*

1. SELECTION, PREPARATION, AND SERVING OF FOOD FOR THE SICK. II; 2 cr.

2. ADVANCED DIETETICS. I; 1 cr. Prerequisite: Dietetics 1.

NURSING

HELEN IRENE DENNE, B.A., R.N., *Professor of Nursing*
LILA BELLE FLETCHER, R.N., *Associate Professor of Nursing*
CHRISTINA MURRAY, B.A., R.N., *Assistant Professor of Nursing*
BESSIE ANDERSON, R.N., *Instructor in Obstetrical Nursing*
MAXINE BAUMGARTNER, B.S., R.N., *Instructor in Nursing*
HELEN BAKKEN, R.N., *Instructor in Nursing of Diseases of the Eye, Ear, Nose, and Throat.*
FRANCES CAMPBELL, R.N., *Instructor in Nursing*
GLADYS CAREY, R.N., *Instructor in Nursing of Communicable Diseases*
EVA BEWICK CLIFFORD, R.N., *Instructor in Orthopedic Nursing*
FLORENCE FIEDLER, R.N., *Instructor in Neuropsychiatric Nursing*
MARCELLA BELVA HARTWIG, R.N., *Instructor in Operating Room Technique*
LUCILE KASKA, R.N., *Instructor in Surgical Nursing*
GRACE JEAN KELLOCK, B.S., R.N., *Instructor in Medical Nursing*
AGNES VIOLA MATTSON, R.N., *Instructor in Operating Room Technique*
EDITH PORTER, B.S., R.N., *Instructor in Pediatric Nursing*
FRANCES STUART, *Instructor in Occupational Therapy*
HELEN BENNET WHEELER, B.A.Sc., R.N., *Instructor in Nursing*
MARION ZILLEY, B.A., R.N., *Instructor in Nursing*
THELMA CARPENTER, R.N., *Assistant in Medical Nursing*
BESSIE WALHUS, R.N., *Assistant in Surgical Nursing*

1. ELEMENTARY PRINCIPLES OF NURSING. I; 2 cr.

2. ELEMENTARY PRINCIPLES OF NURSING. I, II; 2 cr. Continuation of Nursing 1 which is prerequisite.

3. CARE OF INFANTS AND CHILDREN. I; 2 cr. Prerequisites: Nursing 1 and 2.

4. SPECIAL TECHNIQUE. II; 2 cr. Prerequisites: Nursing 1, 2, 3.

5. SOCIAL PROBLEMS FROM THE STANDPOINT OF NURSING. I; 4 cr. Prerequisites: Nursing 1, 2, 3.

MEDICINE AND SURGERY

GEORGE VAN INGEN BROWN, M.D., D.D.S., F.A.C.S., *Professor of Oral and Plastic Surgery*
JOHN WARTON HARRIS, M.D., *Professor of Obstetrics and Gynecology*
WILLIAM DAVISON STOVALL, M.D., *Professor of Hygiene*
ROBERT EMMETT BURNS, B.S., M.D., *Associate Professor of Orthopedic Surgery*
JAMES CLAUDE ELSOM, M.D., *Associate Professor of Physical Therapy*
JOHN WASSON GALE, M.A., M.D., *Associate Professor of Surgery*
PHILLIPS FOSTER GREENE, M.D., F.A.C.S., *Associate Professor of Surgery*
WILLIAM SHAINLINE MIDDLETON, M.D., *Associate Professor of Medicine*
EZRA EUGENE NEFF, B.A., M.D., *Associate Professor of Ophthalmology*
RALPH EMERSON CAMPBELL, B.S., M.D., *Assistant Professor of Obstetrics and Gynecology*
JOHN EUGENE GONCE, JR., B.A., M.D., *Assistant Professor of Pediatrics*
ROSCOE LYLE MCINTOSH, B.S., M.D., *Assistant Professor of Dermatology*
JOHN BREWSTER WEAR, B.A., M.D., *Assistant Professor of Urology*
MABEL GARDEN MASTEN, B.S., M.D., *Instructor in Neuropsychiatry*
ALBERT JOHN WINELAND, M.D., *Instructor in Anesthesia*
LESTER HALE QUINN, M.D., *Clinical Assistant in Surgery*

1. RECOGNITION AND TREATMENT OF DISEASE. II; 2 cr.
2. HEALTH, DISEASE, AND THERAPY IN INFANCY AND CHILDHOOD. I; 6 cr. Includes pediatrics, orthopedics, and operating room technique.
3. NERVOUS AND MENTAL HEALTH, DISEASE, AND THERAPY. II; 3 cr. This course includes the principles of mental hygiene.
4. HEALTH, DISEASE, AND THERAPY OF THE EYE, EAR, NOSE, MOUTH, THROAT, AND SKIN. II; 2 cr.
5. SPECIAL THERAPEUTIC TECHNIQUE. Yr; 1 cr. Physical therapy and communicable diseases.
6. OBSTETRICS AND GYNECOLOGY. I; 2 cr.
7. MEDICINE AND UROGENITAL SURGERY. I; 2 cr.

THERAPEUTICS

ARTHUR LAWRIE TATUM, Ph.D., M.D., *Professor of Pharmacology*
ERNEST KUENZI, B.S., *Pharmacist*

1. MATERIA MEDICA. II; 3 cr. The recognition, use, and danger of drugs used in medicine.

PART VI—THE GRADUATE SCHOOL

C. S. SLICHTER, DEAN

ADMISSION

Admission to the Graduate School is based upon the undergraduate record. In order to avoid delays incident to the opening of a session, applicants for admission should send to the Graduate Office, several weeks in advance of their coming, an official transcript of this record. They will do well to ascertain promptly, in person or by letter, whether the record shown by the transcript is in all respects acceptable for admission to the Graduate School.

Graduates of the four-year courses of the various colleges of the University of Wisconsin are eligible for admission to the Graduate School without examination and without presentation of transcript.

Graduates of institutions in which the requirements for a bachelor's degree fall short of those existing at the University of Wisconsin may be admitted to the Graduate School, provided their training is found to be less than a year short of the regular requirement for admission.

Admission to the Graduate School does not of itself imply admission to candidacy for an advanced degree. Admission to candidacy is determined only after a student has shown that he is qualified to pursue graduate study successfully.

Members of the faculties of other institutions or of the staffs of research organizations, who have been granted higher degrees, are invited to avail themselves of the facilities offered by this University to do special investigation.

FEES AND EXPENSES

For detailed statement see section on Student Expense, beginning page 15. See also page 24 for statement regarding room and board.

Graduate students who have completed all the work for a higher degree except the oral examination, pay a fee of $10 only.

SUMMER SESSION WORK

The regular summer session of the University is six weeks in length. There is also, however, a session of nine weeks open only to graduate students. The classes and seminars in the nine-week session are held on the first four days of the week, leaving Friday and Saturday free for uninterrupted work in laboratory or library. Two courses pursued for nine weeks constitute full credit for the work of one-half semester. One six-week course and one nine-week course may also be offered for full credit, provided extra work is arranged for the last three weeks of the nine-week course. This permits any six-week graduate course to be associated with any nine-week course for full half-semester residence credit. No nine-week course, however, may be taken for six weeks only.

See page 418 for statement of fees and expenses in the summer session.

RESEARCH FUND

The State Legislature has provided the sum of $50,000 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 now available from any other source.

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 Sigma Xi, Classical Club, Language and Literature Club, Historical Conference, Romance Language Club, Education Club, German Journal Club, Chemical Club, Biological Club, Mathematical Club, Mining Club, University of Wisconsin Branch of the American Institute of Electrical Engineers, Wisconsin Section of the American Chemical Society, University of Wisconsin Section of the American Electro-Chemical Society.

The Graduate Club, while sharing in these purposes, is primarily a social organization for the promotion of acquaintance and good fellowship among graduate students and members of the faculty.

The University Club, a local organization of college alumni, maintains a well-equipped clubhouse near the university grounds and the privileges of this house, including its lodging and restaurant facilities, are open to men graduate students, who may become associate members of the club.

The College Women's Club maintains, at 12 East Gilman Street, a clubhouse where facilities are available to all women graduate students.

The men's and women's gymnasiums are open to graduate students upon payment of a locker and laundry fee of $2 per semester.

UNIVERSITY PUBLICATIONS

See page 7.

FELLOWSHIPS AND SCHOLARSHIPS

UNIVERSITY FELLOWSHIPS

With the exception of honorary fellows and honorary scholars, all university fellows and scholars are required to pay the general fee.

For the purpose of promoting higher scholarship and research the Regents of the University have established forty-five university fellowships of the annual value of $750 each. These are allotted to the several departments of instruction as follows:

To the College of Letters and Science, twenty-seven, as follows: One each to botany, comparative literature, education, geology, German, Greek, Latin, mathematics, philosophy, physics, political science, psychology, Romance languages, zoology; four each to economics and history; two to sociology; and three to chemistry. To the College of Agriculture, twelve, as follows: One each to agricultural bacteriology, agricultural chemistry, agricultural economics, plant pathology, genetics, and home economics; and six to sociology; open to all students in the College of Agriculture, regardless of major field. To the College of Engineering, three, as follows: One each to chemical engineering, electrical engineering, structural engineering.

In addition to the foregoing there are three fellowships open to all graduate students in the University, regardless of major field, and certain endowed fellowships specially described upon following pages.

The following are regulations respecting fellowships and scholarships:

1. Any fellowship to which the present regulations apply may be held by any graduate of a college of recognized standing or by anyone whose education is equivalent to that represented by a college degree. Those about to take such a degree are eligible candidates, the regulations applying to the time of entrance upon the duties of the fellowships. Men and women are equally eligible. Preference in appointment will usually be shown to candidates who possess a competent reading knowledge of French and German.

2. Fellowships will be granted only upon application, which should be made upon a special blank form furnished by the Dean of the Graduate School; such application, with accompanying evidence of merit, attainment, and ability, as shown by official transcripts of previous records and letters of recommendation, to be in the hands of the Dean of the Graduate School before February 15 of the academic year preceding that during which the fellowship is to be held.

3. All fellowships will be filled each year. Fellows may be reappointed for one additional year only.

4. Application must be accompanied by evidence of scholarship, ability, and general worthiness, such as theses (whether prepared for this or other purposes), published writings, testimonials from instructors, outline of educational course pursued, special distinctions gained, and the like. Applications for reappointment should contain a full account of the work of the preceding year. Applications to receive attention must contain a definite statement of the special studies which the applicant intends to pursue.

5. Each fellow shall pursue his studies under the direction of an assigned professor or professors. Assignment of university services to the fellow shall be made by the President in consultation with the head of the department to which the fellow has been assigned, and the work assigned may be equivalent to one hour of teaching daily.

6. Vacancies in fellowships, due to resignation or other cause, may be filled as they occur, at the option of the Faculty.

HONORARY FELLOWSHIPS

The Regents have established honorary fellowships, equal in number to the university fellowships; election is by the Graduate Committee upon recommendation of a graduate division or of a department. These awards may not be applied for, but are granted only upon recommendation of a department or division; they are restricted 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 non-resident tuition and the general fee, 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.

THE LYMAN COPELAND DRAPER FELLOWSHIP IN WESTERN HISTORY

This fellowship, established in the University of Wisconsin by the Wisconsin Historical Society, is worth $500 a year, paid by the Historical Society. The incumbent gives service, as a calendarer of Draper manuscripts, to the amount of fifteen hours per school week.

SCHOOL OF EDUCATION FELLOWSHIPS

Two resident fellowships with an annual value of $600 each are provided in the School of Education. These fellowships are assigned by 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 work assigned to the holders of these fellowships will be under the joint supervision of the Director of the School of Education and the department in which the fellowship is assigned.

THE HARRIET REMINGTON LAIRD FELLOWSHIP

By the will of the late John M. Olin the sum of $10,000 was bequeathed to the Regents of the University in trust, in memory of Harriet Remington Laird, sister of Mrs. Olin. The net income from this fund, now amounting to about $600 annually, is awarded to some woman graduate student selected by the faculty of the University.

THE ADAMS FELLOWSHIPS

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 English. There are now five of these fellowships. Each of these,—the two Mary M. Adams Graduate Fellowships in English Language and Literature, the Charles Kendall Adams and the Mary M. Adams Graduate Fellowships in Greek, and the President Adams Graduate Fellowship in Modern History,—pays annually about $600.

THE 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. The fellow assigned is expected to devote the year to foreign travel and study in foreign universities, but by special permission may study at some other American university.

ANNIE GORHAM FELLOWSHIP

By will of the late Annie Gorham Marston, the sum of $10,000 was bequeathed to the Regents of the University of Wisconsin to be perpetually held in trust and the income therefrom to be used for the purpose of establishing and maintaining a fellowship in the University of Wisconsin for students doing graduate work. This fellowship is known as the Annie Gorham Fellowship and pays about $420 annually.

GRADUATE RESEARCH FELLOWSHIPS IN ENGINEERING

For the purpose of promoting engineering research and the development of qualified research men, the University of Wisconsin has established three research fellowships in the College of Engineering. These fellowships are granted under the following conditions:

Each fellow will be appointed for a period of two years, subject to satisfactory service. The salary will be $900 for the first year and $1100 for the second year. The fellow will be required to devote not less than half his time to assigned research work in the College of Engineering, but will in any case be given opportunity to complete his work for the M.S. degree within the two-year period. Candidates must be graduates of engineering colleges of recognized standing and should preferably have had one or two years' graduate study or teaching or engineering experience. The period of service required will be the usual academic year, including the short vacations.

SPECIAL FELLOWSHIPS IN ENGINEERING

The gas section, the electrical section, and the electric railway section of the Wisconsin Utilities Association each maintains a fellowship valued annually at $500, open to graduate students. Appointment to the gas fellowship is made by the Chemical Engineering Department, and those to the electrical and electric railway fellowships by the Electrical Engineering Department.

In the Department of Mining and Metallurgy, cooperative fellowships are offered under grants from the Engineering Foundation, Wisconsin Steel Foundry Research Foundation, and the Wisconsin Gray Iron Research Foundation. These fellowships carry stipends of $1,200 per year and in each case the fellow carries on research work on some special problem relating to the particular industry.

SPECIAL FELLOWSHIPS AND SCHOLARSHIPS IN GERMAN

A number of special fellowships and scholarships are available in the Department of German. From funds furnished by the National Teachers' Seminary in Milwaukee there is available the Milwaukee Seminary Traveling Fellowship for a year's study in Germany, the amount of which, according to individual needs, may be as high as $1,000. This fellowship is open to graduate students who have done distinguished work in the teacher-training courses of the department and who wish to prepare themselves further for the teaching of German.

Under the auspices of the Seminary Endowment Association of New York City, there have been established four resident fellowships of $600 each: the Ferdinand W. Lafrentz Fellowship, the Paul M. Warburg Fellowship, the Paul Guenther Fellowship, and the Seminary Endowment Association Fellowship. Applications for these four fellowships are to be addressed to Mr. G. J. Lenz, Secretary Seminary Endowment Association, 345 E. 15th Street, New York City.

The Henry Gund Graduate Scholarship in German Literature has an annual value at present of $400. The Julius Zehnter Fellowship in German has an annual value at present of approximately $600, the interest on a bequest of $10,000.

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.

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 alloted to a graduate student upon the recommendation of the Department of Pharmacy.

OTHER FELLOWSHIPS AVAILABLE IN THE GRADUATE SCHOOL

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 in pharmacy of the value of $1,000, the time of the appointee to be devoted to research work along the line of synthetic new remedies.

The Du Pont fellowship in chemistry of $750 is offered by E. I. du Pont de Nemours and Company of Wilmington, Delaware.

The Menomonie River Sugar Company provides an industrial fellowship of the value of $700 a year.

The Wisconsin Utilities Association and the National Committee on the Relation of Electricity to Agriculture provide a fellowship in Agricultural Engineering. The value of the fellowship for the year 1928–29 was $2700.

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.

WISCONSIN LEGISLATIVE SCHOLARSHIPS

There are available in the Graduate School to non-residents of this state, a number of so-called legislative scholarships, which pay the recipient $200 per year, or an amount equal to the non-resident tuition fee. The assignment of these scholarships is in the hands of a sub-committee of the Graduate Committee of the University. A candidate for one of these scholarships should apply to the Dean of the Graduate School for an application form and submit to that office a transcript of his undergraduate record, and of any graduate work already completed.

GRADUATE SCHOLARSHIPS

The Regents of the University maintain twenty-two graduate scholarships of the value of $250 each. Two of these are designated for economics, one each for political science, sociology, European history, and American history, and four for agriculture. Appointments to these scholarships are made in the same manner as appointments to fellowships (see the rules printed above). By special provision authority is conferred upon the faculties of Beloit, Carroll, Lawrence, Milton, Milwaukee–Downer, and Ripon to nominate annually to the faculty of the University of Wisconsin one mem-

ber of their respective senior classes as a suitable candidate for a university scholarship. Such candidates when duly appointed by the Regents of the University are in all respects upon the same footing as other university scholars. In addition to these, there are eight unassigned scholarships in the College of Letters and Science; appointments are made by the Graduate Committee upon recommendation of the various departments.

HONORARY SCHOLARSHIPS

The Regents of the University have established honorary scholarships, not to exceed in number the number of paid university graduate scholarships. These scholarships are awarded after careful examination into the worthiness of candidates, but only upon recommendation of a department, not upon individual application. Only those persons are eligible who have received the baccalaureate degree at least one year previous to their nomination. No compensation is attached to these appointments, but the holder of an honorary scholarship is exempt from payment of the non-resident tuition fee and the general fee.

THE DR. MARTHA L. EDWARDS MEMORIAL SCHOLARSHIP IN HISTORY

In memory of the late Dr. Martha L. Edwards, a fund was established by the members of her family and the Madison Branch of the American Association of University Women. From this fund small scholarships may be awarded by the Department of History to women graduate students in history for the purpose of advancing their doctoral investigations.

TRIPP SCHOLARSHIP

By will of the late J. Stephens Tripp of Sauk County there has been established a scholarship open to any University student, graduate or undergraduate, whose home is in Sauk County, Wisconsin. The awards are made in April or May for the following year, and the annual stipend is approximately $600.

OTHER SCHOLARSHIPS AVAILABLE IN THE GRADUATE SCHOOL

Two scholarships for young French women are offered, consisting of $500 each with remission of tuition fees. These young women are to reside in the French House.

The Wisconsin chapter of Omicron Nu offers a yearly scholarship open to either graduate or undergraduate students in home economics. It returns from $200 to $250 a year.

The Anna Morris Ely Scholarship in economics carries an annual stipend of $250.

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 are 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, Wisconsin, before March 1 of the academic year preceding that during which such appointments are to be held.

SECOND DEGREES

NON-PROFESSIONAL DEGREES

The University of Wisconsin confers the following non-professional second degrees: Master of Arts, Master of Science, Master of Philosophy.

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 preliminary training has been substantially equivalent to that represented by the baccalaureate degrees 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, its judgment in this respect being influenced by the actual attainments of the candidate in larger measure than by the institution at which he has previously studied, and its purpose being to adjust the differences in the training furnished by different institutions.

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, and whose graduate studies are non-professional in character. The degree, Master of Science, is conferred upon candidates whose undergraduate work corresponds to that now leading to the degree, Bachelor of Science, as conferred by the University of Wisconsin, and may also be conferred upon bachelor of arts who are adequately trained in mathematical, chemical, physical, or biological science. The degree, Master of Philosophy, is conferred upon candidates whose academic training corresponds to that leading to the degree, Bachelor of Philosophy, as conferred by the University of Wisconsin.

Candidacy for the above degrees is based upon resident study at the University. In no case, will a master's degree be conferred in course without the equivalent of two semesters of graduate study, at least one of which, or its equivalent in summer sessions, must be spent at the University of Wisconsin.

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 course includes normally from nine to twelve unit-hours of graduate work for each semester, of which at least one-half 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 a second 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. The candidate must pass an oral examination upon the preliminary training and graduate work offered in support of his candidacy. Subject to the approval of the President of the University, the time and place of this examination will be determined and the examining committee appointed by the Dean of the Graduate School.

4. 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 thesis offered in partial fulfillment of the requirement for a master's degree must be typewritten and bound according to specifications furnished by the Librarian of the University, and before it is accepted must be approved by the Major Professor under whose guidance it has been done. It shall be deposited in the University Library by the second Friday before Commencement and its title, as approved in advance by the Major Professor, will appear in the Commencement Register.

MASTER OF SCIENCE IN ENGINEERING

The degree of Master of Science in Engineering (the diploma to contain a specific designation of the course taken as, for example, Master of Science in Civil Engineering) will be conferred upon candidates whose undergraduate work corresponds to that leading to the degree Bachelor of Science in Engineering, as conferred by the University of Wisconsin, under the following conditions:

1. The candidate shall satisfy all of the general regulations pertaining to second degrees described in the preceding section.

2. The candidate must maintain a *superior grade* in his graduate work.

3. The candidate is required to submit a thesis giving evidence of analytical investigative work. The study may be of an economic, historical, statistical, theoretical, or experimental type. The thesis must be typewritten, approved, and filed as specified under 4 above.

4. A graduate from the College of Engineering of this University or a graduate from another school with equivalent preparation who continues his studies in the same branch of engineering in which he obtained the bachelor's degree, can complete the requirements for the master's degree in engineering in one year.

5. A graduate whose training has not been equivalent to that offered in the College of Engineering of this University will be required to spend more than one year in graduate study in residence before he will be granted his master's degree. If the student is required to do more than one semester's work to make up the undergraduate requirements of the College of Engineering of this University, he will not be allowed to register in the Graduate School, but must enroll in the College of Engineering.

6. The Advanced Standing Committee in the College of Engineering, subject to the approval of the Graduate Committee, shall determine whether the student is sufficiently prepared to do graduate work or whether he should enroll in the College of Engineering.

THE PROFESSIONAL ENGINEERING DEGREES

The degrees of Civil Engineer, Mechanical Engineer, Electrical Engineer, Chemical Engineer, and Engineer of Mines will be granted to graduates from the College of Engineering of the University of Wisconsin, who

have spent five years in professional and educational work, (during one of which they must have been in responsible charge), who have proved their ability to plan or to design as well as to direct engineering work or original investigation along engineering or scientific lines, and who present an acceptable thesis. Graduates who hold the degree of M.S. in Engineering from the University of Wisconsin are credited with two years' professional work.

The thesis shall give evidence of professional attainment. It shall be in such form and of such an original contributive or analytical character as to make it suitable for publication in the proceedings of the appropriate national engineering society. The thesis may be an engineering study of an economic, design, or research nature. It may not be a mere description of usual engineering work or a digest of engineering literature. A copy of the thesis must be in the hands of the Dean not later than May 1, if the candidate is to receive his degree at the following Commencement.

The professional degree will be granted in the course in which the candidate has received his B.S. or M.S. degree, unless the candidate requests otherwise, and submits with his request, satisfactory evidence of his scientific attainments in the field in which the professional degree is requested.

SECOND DEGREE IN PUBLIC HEALTH

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 Dean of the Medical School.

SECOND DEGREE 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.

DOCTOR OF PHILOSOPHY

I. THE DEGREE. Doctor of Philosophy is a research degree. It is not a degree conferred solely as a result of study, no matter how faithful, extending over any prescribed period; it does not rest merely upon any computation of time or any enumeration of courses. Questions of residence and plans of study, listed below as the minimum, are secondary. The granting of the degree is based essentially upon evidence of general proficiency and of distinctive attainments in a special field, and particularly upon the recognized power of independent investigation as shown by the production of a thesis embodying original research or creative scholarship and presented with a fair degree of literary skill.

II. RESIDENCE. Candidacy for the degree is based upon resident graduate study normally extending over a period of not less than three academic years, at least one of which must be spent at this University. But it is to be understood that the mere completion of three years of resident study does not of itself confer a right to take the final examination. The matter of time is determined by the character of a student's undergraduate record and by the quality of the work done in the Graduate School.

One whose undergraduate work is insufficient in amount or too narrowly specialized must count on spending additional time in preliminary studies essential as a basis for the advanced work the student purposes undertaking.

Candidates who are engaged in teaching or other remunerated employment will be required to devote to their candidacy such period in excess of the minimum requirement of three years as may be designated by the Graduate Committee. It is suggested as a very desirable consideration that every candidate for the degree should arrange to devote at least one year exclusively to graduate study.

Residence as a graduate student in another institution of approved standing will be accepted at the University, but residence elsewhere will not reduce the minimum of one year of residence in this University. In evaluating the time spent and work done elsewhere each case will be determined on its merits.

Work done *in absentia* in past years and credited for the degree of Master of Arts will not shorten the residence requirement for the degree of Doctor of Philosophy in case a student becomes a candidate for that degree. No absentia or correspondence work is now credited toward an advanced degree.

In order to give the work of a graduate student greater breadth, a student may be granted absence from the University to do special investigation in the field or to take advantage of opportunities for research in a special subject not to be found in the University. Such leave of absence is granted only in special cases and under definite limitations.

III. LANGUAGES. A reading knowledge of both French and German is required of all candidates. Certificates of ability to read French and German must be secured from the departments in this University and must be filed with the Dean of the Graduate School before the candidate is admitted to the preliminary examination. For detailed information and regulations touching the issuance of these certificates, students may apply to the Dean of the Graduate School.

The use of any other foreign language essential to the work of the major subject is in addition to French and German. It is expected that a candidate should have a reading knowledge of at least one language, French or German, upon entrance to the Graduate School, and that he should prove his ability to read one of the two, if not both, by the end of the first year of graduate study.

IV. PLANS OF STUDY. The degree of Doctor of Philosophy is never granted for miscellaneous studies. The course as a whole must be rationally unified and all constituent parts must contribute to some general object of study and research. The course must be selected from groups embracing one principal subject, called the Major, and one or two subsidiary and cognate branches, called the Minor.

MAJOR STUDY. A candidate is required to select a field of study which may be co-extensive with the work of a single department, or with one of the "subjects" under which certain departmental plans of courses are arranged, or which may be constructed from two closely interrelated subjects. Only in the exceptional case will a Major be allowed to extend beyond a single department and then only with the prior approval of the Dean.

MINOR STUDIES. In order to obviate overspecialization, a candidate is required to pursue one, and may pursue two, minor studies lying outside the major subject but cognate with it. The relation of the subsidiary subjects

to the principal and the number of them depends largely on the character of the course as a whole and the general attainments of the candidate. In general the Minor shall aggregate from a fourth to a third of the time devoted to graduate study.

MAJOR PROFESSOR. One of the instructors in the department of the Major is selected by the student as his Major Professor. The candidate will consult the Major Professor in the selection and arrangement of a program of work embracing both the major and minor fields. The Major Professor will have immediate supervision of the thesis. The candidate should consult with the Major Professor at suitable intervals. It is one of the unique advantages of graduate life that a student comes into freedom of association with older scholars who will seek to make his work profitable by counsel and assistance and who will aid the student in acquiring for himself the discipline and method of independent scholarship.

DEPARTMENTS AND DIVISIONS. The work of the Graduate School as a whole is organized not only according to departments, but also according to divisions, each of which includes allied departments. The requirements fixed by a department or a division cannot be stated in terms at once specific and uniform. Information about the special requirements of departments or divisions is to be found in their separate announcements.

V. ADMISSION TO CANDIDACY. A student is not permitted to take the final examination for the degree until he has been formally admitted to candidacy by passing a preliminary qualifying test. The preliminary examination must be taken not less than one academic year in advance of the date when the degree is expected to be conferred. Exceptions to this rule may be made in individual cases upon recommendation of a division to the Graduate Committee; and for the students who come to Wisconsin for their last year of graduate work, arrangements will be made whereby the preliminary examination can be taken in the early part of the academic year.

The candidate shall file with the Dean a formal application to be admitted to candidacy for the doctor's degree. A blank form suitable for this purpose is furnished by the Graduate Office and this formal application should embrace the following statements: (a) Departmental recommendations of candidacy based upon a formal written examination, or an oral examination before a duly appointed committee, or such other substantial test as the departments may elect. The nature of the test shall be stated in the recommendations. (b) The scope of the proposed minors with the approval of the professor who assumes charge of each minor. (c) The title of the proposed thesis (subject to future verbal change) approved by the Major Professor. (d) Certification that the French and German requirements have been met.

This application shall be submitted to the Graduate Committee, which may reject it for cause, or may approve it and admit the student 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.

VI. FINAL EXAMINATION. The degree Doctor of Philosophy is not granted for faithful study for a prescribed time or in fulfillment of a definite program, but on the ground of long study and distinct attainment in a special branch of knowledge manifested by a final examination and by the presentation of a thesis which gives evidence of original treatment of a fitting subject and forms a contribution to knowledge.

ORAL EXAMINATION. Every candidate for the doctor's degree is subject to an oral examination upon the thesis and the general field of the major and minor studies, but the preliminary examination may be construed as final in certain aspects of the major and minor subjects if the professors in charge of the candidate's work are satisfied with his preparation. Such delimitation of the subjects to be offered in the final oral examination must be made a matter of record with the Dean of the Graduate School.

The Dean of the Graduate School will appoint for each candidate an examining committee, usually composed of five persons, with the Major Professor as chairman, and will designate a time and place for the examination. The candidate's completed thesis shall be presented to this committee, or in lieu thereof, the Major Professor shall state to the committee its purpose and scope and shall certify to the committee that the work upon the thesis is substantially completed. This examination shall be open to all members of the Graduate Faculty.

VII. THESIS. At any time after admission to candidacy, and at least thirty days prior to the final examination, the candidate must submit to the Dean of the Graduate School, for approval of its mechanical form and execution, a typewritten copy of his completed thesis. The Dean will furnish an official title page for the thesis and appoint a committee of three consisting of the Major Professor and two members of the Graduate Faculty, to pass upon its substantial merit. Their report, if favorable, shall be endorsed upon the official title page. When so endorsed, the thesis shall be brought to the Graduate Office for recording and then filed in the University Library. The thesis can be withdrawn from the Library only upon written authorization of the Dean of the Graduate School. In case of divided opinion among the examiners, the case shall be referred to the Graduate Committee with right of appeal to the Graduate Faculty.

ABSTRACT. After the approval of the thesis, the candidate shall 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.

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 as prescribed below. At the expiration of the period thus described, the Dean of the Graduate School may declare such fifty dollars to be forfeited to the fund for the publication of thesis abstracts and it shall be transferred to that fund by the Bursar.

The successful candidate is urged to put his thesis into print as promptly as possible and to deposit one hundred copies thereof in the University Library. In the case of doctors' theses published in (a) such scholarly periodicals or society or university publications as shall be approved by the Dean of the Graduate School, or (b) in bound volumes issued and sold by well-known publishing houses approved by the Dean, the candidate may deposit in the University Library six copies of the thesis so published in lieu of the one hundred copies above described. By approval of the Major Professor and the Dean of the Graduate School, publication and filing of an approved part of the thesis may be accepted in satisfaction of this requirement.

PART VII—EXTENSION DIVISION

(EXTRA-MURAL COLLEGE)

CHESTER DEFOREST SNELL, B.H., B.S., DEAN
RICHARD EVERETT ELLINGWOOD, M.S., ASSISTANT 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 divisions of the University with a dean and a faculty. The work of the Division is divided into three departments as follows: Extension Teaching, Debating and Public Discussion, Public Service.

The object of this University in carrying on extension work is to provide the highest type of intellectual stimulus and continuing 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 practicable expense—to bring the University and the home into close relationship.

DEPARTMENT OF EXTENSION TEACHING

WILLIAM HENRY LIGHTY, Ph.B., DIRECTOR

ARTHUR BEATTY, Ph.D., *Professor of English*
BENJAMIN GEORGE ELLIOTT, M.S., M.E., *Professor of Mechanical Engineering*
CYRIL METHODIUS JANSKY, B.A., B.S., *Professor of Electrical Engineering*
EDWARD BUNKER SCHLATTER, Ph.D., *Professor of Romance Languages*
LELIA BASCOM, M.A., *Associate Professor of English*
HENRY ROWLAND ENGLISH, M.A., *Associate Professor of Business Administration*
ADOLPHINE BIANCA ERNST, Ph.D., *Associate Professor of German*
FORD HERBERT MACGREGOR, M.A., *Associate Professor of Political Science*
ANNIE MARIA PITMAN, Ph.D., *Associate Professor of Classics*
HARRY E. PULVER, C.E., *Professor of Civil Engineering*
ROY JEFFERSON COLBERT, M.A., *Assistant Professor of Economics*
FRANK DOUGALL CRANE, M.A., *Assistant Professor of English*
CHARLES LYMAN DEAN, M.E., *Assistant Professor of Mechanical Engineering*
HELMUTH REINHOLD DOERING, B.A., M.B.A., *Assistant Professor of Business Administration*
BESSIE EVA EDSALL, Ph.M., *Assistant Professor of History*
IDA MARIE GANGSTAD, B.A., *Assistant Professor of Library Methods*
ARTHUR WOOD HALLAM, B.A., *Assistant Professor of Business Administration*

HARRIETTE GRACE HOLT, M.A., *Assistant Professor of Mathematics*
MRS. EDITH EVANS HOYT, M.A., *Assistant Professor of Education*
WILLARD JOHN SCHENCK, B.A., C.P.A., *Assistant Professor of Business Administration*
DUDLEY BROOKS, M.A., *Instructor in English*
CALVERT LAMPERT DEDRICK, B.A., *Instructor in Economics and Sociology*
LEONARD FOLSOM HILLIS, B.S., *Instructor in Civil and Structural Engineering*
MRS. BERNICE DONNELLY KUNEY, M.A., *Instructor in English*
MRS. AMY HOYT SMITH, M.A., *Recorder*
NINA GRACE SMITH, M.A., *Instructor in English*
HOWARD WILLIAM TROYER, M.A., *Instructor in English*
KATHRIN MARIE TUFTS, M.A., *Instructor in Spanish*
MRS. RICARDO BECKWITH QUINTANA, B.A., *Assistant to the Director*

CORRESPONDENCE STUDY

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 Department of Extension Teaching. 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 Department of Extension Teaching, non-resident or home-study instruction by correspondence, 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 in other fields of knowledge.
3. High-school and preparatory studies for those to 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 associated or club or group study and discussion work.

GENERAL BENEFITS

Persons who are benefited by correspondence study may be divided into two main classes: (1) those who have the taste, ability, and inclination to continue their education, whether general or vocational; (2) wage-earners who cannot leave their employment in order to acquire training directed toward greater proficiency and skill.

The first class may be roughly divided into (1) those who wish to keep abreast of the advances in knowledge related to their profession or business, or who wish to study purely for purposes of general culture and the enjoyment of the intellectual pleasures that accompany the sense of mastery

of knowledge and the getting of understanding; (2) those who wish to earn units of credit toward a university degree; and (3) those who require preparation for entrance to the University.

The second class includes (1) those whom the necessity of earning a livelihood has taken from school before acquiring a satisfactory 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.

All courses offered through correspondence study, 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 statements or certificates indicative of the character of the work done.

METHOD

PROCEDURE. The student who wishes to undertake correspondence study should first select such course or courses as he may desire to take. He should then fill out the application blank with information called for, and return it, with the required fee, to the office of the Extension Division. The necessary textbooks, outfits, etc., may also be purchased through the Extension Division if the student so desires. Ordering texts through the Extension Division at the time of registration saves time and facilitates a prompt start. Students are encouraged to register for but one course at a time. Not more than two courses may be registered for at one time unless the student can give evidence that he has at least several hours each day to devote to study.

THE INSTRUCTION. Upon receipt of the application and fee, the first two assignments will be sent with instructions for study, methods of preparation, and directions for returning recitation sheets and reports. Each recitation report 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 schools of known standards.

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 study of five recitation hours 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 may be consistent with good work and the rules of the University.

THE LESSON ASSIGNMENT. The unit course is divided into assignments. In some courses this may call for but a single report, but in others

the assignment may be 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, wherever that is desirable, 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, under supervised conditions approved by the University.

REGULATIONS. 1. Students may begin correspondence-study courses at any time during the year.

2. For admission to a correspondence-study course no preliminary examination is required. The student is required to fill out an application blank, giving such information as may be helpful to the instructor in adapting the instruction to his personal needs.

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 interest of the student, it reserves the right to reject the application, or to advise a change to another course.

5. The time in which a correspondence-study course is to be completed varies with the length of the course. One year is allowed for a course of twenty-four assignments or less, fifteen months for a course of from twenty-five to thirty-two assignments, and eighteen months for a course of from thirty-three to forty assignments. A reinstatement fee is charged when courses are not completed within the time limit allowed.

6. All fees are payable in advance, and no fee is refunded because a student fails to start or pursue the course for which he has once registered. If an application for instruction is rejected, the fee remitted will be returned.

7. The fee for university credit courses is five dollars per credit for students who are legal residents of the state of Wisconsin. For students not legal residents of the state of Wisconsin, the fee is eight dollars per credit. For courses not involving university credit, corresponding fees prevail. The expense connected with the instruction of each course is listed in the bulletins where these courses are announced. 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 the satisfactory completion of a correspondence-study course designed for credit, have their grades permanently filed in the Recorder's 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.

2. The maximum credit granted for work done by correspondence study, however, may not exceed one-half the number of credit 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 supervised 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. In the event a correspondence student has not fully completed a course upon which he has been working, at the time of registration for residence study, a suspension of instruction in that course may be granted. When the suspension of instruction is granted, all advance assignments in the hands of the student must be returned to the Recorder's office.

5. In special cases credit may be allowed for correspondence-study courses of preparatory grade to satisfy partial entrance requirements to the University.

Course Number	Title of Course	No. of Assignments	Credits	Tuition in Wisconsin	Tuition outside Wisconsin	Course No. of Residence Equivalent
BOTANY						
1	Description and classification of flowering plants	16 or 32	2 or 4	$10 or $20	$16 or $32	130
11	General botany	40	5	25	40	1
5	Plant histology	24	3	15	24	110
7	Drug and food products	24	3	15	24	111
8	Trees and shrubs	16 or 24	2 or 3	10 or 15	16 or 24	131
21	Elementary botany	32		20	32	
BUSINESS						
128	Bookkeeping and introductory accounting I	12		10	15	
129	Bookkeeping and introductory accounting II	12		10	15	
138	Accounting principles and practice I	12		10	15	
139	Accounting principles and practice II	12		10	15	
136	Cost accounting I	12		10	15	
140	Cost accounting II	12		10	15	
134	Municipal accounting	7		6	10	
132A	Federal income tax	16		15	20	
137	Auditing	16		16	20	
115	Contracts, law of	10		10	15	
118	Sales, law of	10		10	15	
122	Commercial paper, law of	10		10	15	
124	Private corporations, law of	7		5	8	
5	Show-card writing	10		10	15	
159A	Retail selling	16		10	12.50	
159B	Retail store management	12		10	15	
191A	Retail advertising	16		15	20	
102	Business correspondence I	8		7.50	10	
103	Business correspondence II	8		7.50	10	
186	Practical banking	11		10	15	
CHEMISTRY						
1	General chemistry	40	5	25	40	1a
2	Qualitative chemical analysis	40	5	25	40	1b
117	Advanced general chemistry	32	4	20	32	117
DRAWING						
203	Shop sketching	16		10	16	
204A	Shop drawing	20		15	20	
204B	Advanced machine drawing	20		15	20	
243A	Principles of architectural drawing	16		10	16	
243B	Advanced architectural drawing	10		10	16	
1	Elements of drawing	24	3	15	24	1
2	Elements of drawing	24	3	15	24	2
3	Descriptive geometry	24	3	15	24	3
4	Freehand lettering	16	2	10	16	
5	Show-card writing	10		10	15	
4A	Engineering lettering	6		5	8	
ECONOMICS						
1	Principles of economics	32	4	20	32	1a
2	Labor problems	24	3	15	24	122
3	Railway transportation	24	3	15	24	135
10	Elements of money and banking	24	3	15	24	5
11	Current economic problems	32	4	20	32	1b

Course Number	Title of Course	No. of Assignments	Credits	Tuition in Wisconsin	Tuition outside Wisconsin	Course No. of Residence Equivalent
EDUCATION						
1A	Mental development	16	2	10	16	11
1B	Mental development	24	3	15	24	11
3	Educational psychology	24	3	15	24	41
60	History of modern education	24	3	15	24	101
10	Principles of elementary teaching	16		10	16	
20A	The teaching of language in the intermediate and grammar grades and in the rural schools	16	2	10	16	94
20B	The teaching of literature and reading in the elementary and rural schools	16	2	10	16	94
31A	Principles of education	24	3	15	24	31
31B	Principles of education	24	3	15	24	31
51A	Social development and education	16	2	10	16	112
51B	Social development and education	24	3	15	24	112
61A	Psychology of individual differences	24	3	15	24	143
61B	Psychology of learning and the original nature of man	24	3	15	24	144
71	History of American education	24	3	15	24	103
81	Supervision of instruction	16	2	10	16	110
65	Educational tests and measurements	16	2	10	16	145
4A	Vocational education for the industries	16	2	10	16	152
4B	Direction and supervision of vocational education	16	2	10	16	153
5A	Vocational and educational guidance	16	2	10	16	113
5B	Vocational and educational counseling	16	2	10	16	116
ENGINEERING—CIVIL AND STRUCTURAL						
404	Civil and structural engineering drawing	12		6	12	
	Elements of structural theory:					
450	Part A—Stress and deformation and principles of statics	6		3	6	
451	Part B—Loads and reactions and shears and moments	8		4	8	
452	Part C—Single and cantilever beams; continuous and restrained beams	8		4	8	
453	Part D—Stresses in truss members and columns	6		3	6	
454	Part E—Bending and direct stress and unsymmetrical bending	6		3	6	
410	Roof trusses	12		7.50	12	
411	Plate girders	12		7.50	12	
412A	Bridge stresses—uniform loads	16		10	16	
412B	Concentrated loads	16		10	16	
413	Design of railway bridge trusses	16		10	16	
418A	Reinforced concrete construction	16		10	16	
418B	Reinforced concrete construction	24		15	24	
418C	Reinforced concrete construction	24		15	24	
421	Steel building construction	16		10	16	
408	Elements of structures	16		10	16	
430	Practical course in concrete	12		7	12	
431	Structural steel drafting and elementary design					
	Part A—Structural steel drafting	6		3	6	

Course Number	Title of Course	No. of Assignments	Credits	Tuition in Wisconsin	Tuition outside Wisconsin	Course No. of Residence Equvialent
ENGINEERING—CIVIL AND STRUCTURAL (Cont.)						
	Part B—Fundamentals of design	10		7.50	10	
	Part C—Steel designing and detailing	8		5	8	
472	Materials of construction	12		8	12	
441A	Elementary surveying	10		6	10	
441B	Advanced surveying	10		6	10	
442	Highway surveying	12		7.50	12	
481	Practical hydraulics	14		10	14	
482	Practical hydraulics	10		7	10	
483	Advanced hydraulics	8		5	8	
445	Railway curves	12		7.50	12	
1	Railway engineering—railway curves	12	2†	7.50	12	Ry. 1
2	Stresses in simple structures	32	4	20	32	Str. 2
3	Design of roof stresses and plate girders	24	3	15	24	Str. 3
4	Design of railway bridge trusses	16	2	10	16	Str. 4
105	Principles of reinforced concrete	24	3	15	24	Str. 105
106	Concrete arches	16	2	10	16	Str. 106
111	Reinforced concrete construction	16	2	10	16	Str. 111
1T	Surveying	8	1	5	8	T. E. 1
2T	Surveying	8	1	5	8	T. E. 2
3T	Land surveying	12	1½	7.50	12	T. E. 3
104T	Advanced surveying	12	1½	7.50	12	T. E. 104
108T	General surveying	16	2	10	16	T. E. 108
ENGINEERING—ELECTRICAL						
301	Mathematics, Part I	26		15	20	
	Mathematics, Part II	14		10	12	
310	Elementary magnetism and electricity	20		12	20	
311	Theory and operation of direct-current machinery	20		12	20	
312	Theory of alternating currents	20		12	20	
313	Alternating-current machinery	20		12	20	
314	Electric lamps and illumination	20		12	20	
315	Practical alternating currents	20		12	20	
316	Central electric stations	20		12	20	
317	Electric power transmission	24	3	15	24	137 in pt.
318	Telephony, Part A—Subscriber's apparatus	10		6	10	
319	Commercial electrical measuring instruments	24		15	24	
319A	Watthour meters	12		8	12	
322	Storage batteries	14		10	14	
323	Electric central station distribution systems	20		15	20	
324	Electric wiring	20		12	20	
327	Essentials of electricity	20		12	15	
328	Practical radio	20		10	16	
330	Electrical engineering mathematics	30	3	20	30	
340	Fundamentals of electrical engineering	24	3	15	24	1
341	Principles of direct-current machines	32	4	20	32	2
343	Principles of alternating currents	32	4	20	32	4
344	Principles of alternating current machinery	32	4	20	32	3
346	Transient electrical phenomena	16	2	10	16	232

† After completion of field work requirements.

Course Number	Title of Course	No. of Assignments	Credits	Tuition in Wisconsin	Tuition outside Wisconsin	Course No. of Residence Equivalent
ENGINEERING—MECHANICAL						
75	The operation and application of the slide rule	5		5	8	
201A	Shop arithmetic	20		11	21	
201B	Advanced shop mathematics	20		10	20	
206	Elements of mechanics	20		15	20	
207	Strength of materials	24		15	24	
208	Mechanism	12		10	15	
1	Machine design	32	4	20	32	M. D. 1
209	Elementary machine design	16		15	20	
214	Elementary steam enginering	16		10	20	
215	Heat	16		10	16	
230	Elements of heat power engineering, Part A	32	4	20	32	S. and G. 1
	Part B	32	4	20	32	S. and G. 2
216	Steam boilers	24		15	24	
217	Steam engines	20		15	20	
219D	The gasoline automobile	24		15	24	
222	Refrigeration	20		15	20	S. and G. 108
223	Heating and ventilating	24	3	15	24	
225	Compressed air	20	3	15	24	
241	Carpenters' and builders' arithmetic	16		10	15	
242	The properties and uses of wood	12		10	15	
242A	Kiln drying of lumber	10		10	15	
272	Cupola practice	7		5	10	
274	Foundry metallurgy	9		10	15	
ENGLISH AND COMPARATIVE LITERATURE						
1	Elementary English	24		12	24	
	Part A	12		6	12	
	Part B	12		6	12	
61	English grammar	24		12	15	
2	Intermediate English composition	40		24	30	
	Part A	20		12	15	
	Part B	20		12	15	
64	Practical English review	10		5	10	
65	First-year high-school English	40		25	30	
66	Second-year high-school English	40		25	30	
67	Third-year high-school English	40		25	30	
5	English composition	24	3	15	24	1a
6	English composition	24	3	15	24	1b
8	Composition of technical papers	8 or 16	1 or 2	5 or 10	8 or 16	
7A	Advanced composition	16	2	10	16	2a
7B	Advanced composition	16	2	10	16	2b
16A	The short story	24	3	15	24	
16B	The short story	24	3	15	24	149
51	General survey of English literature	24	3	15	24	30a
52	General survey of English literature	24	3	15	24	30b
33A	Introduction to English literature	16	2	10	16	33a
33B	Introduction to English literature	16	2	10	16	33b
34	The Romantic movement	24	3	15	24	34
17A	Shakespeare	24	3	15	24	137(I)
17B	Shakespeare	24	3	15	24	137(II)
18	The poetry of Tennyson	16	2	10	16	141
19	The poetry of Browning	16	2	10	16	145
25	The English novel in the nineteenth century	24	3	15	24	39 in part

Course Number	Title of Course	No. of Assignments	Credits	Tuition in Wisconsin	Tuition outside Wisconsin	Course No. of Residence Equivalent
ENGLISH AND COMPARATIVE LITERATURE (Cont.)						
40A	General survey of American literature	16	2	10	16	40(I)
40B	General survey of American literature	16	2	10	16	40(II)
4A	The teaching of composition	16	2	10	16	341
4B	The teaching of reading and literature	16	2	10	16	342
20A	The teaching of language in the intermediate and grammar grades and in the rural schools	16	2	10	16	94
20B	The teaching of literature and reading in the elementary and rural schools	16	2	10	16	94
85A	Modern drama	16	2	10	16	Comp. Lit. 67
85B	Modern drama	16	2	10	16	Comp. Lit. 67
113	Ancient classical drama in English	16 or 24	2 or 3	10 or 15	16 or 24	
118	Classical mythology in literature	16	2	10	16	
68A	Modern novel	16	2	10	16	Comp. Lit. 68
68B	Modern novel	16	2	10	16	Comp. Lit. 68
63	Review of English grammar and composition	10		5	10	
81	Review of American literature	12		6	12	
91	Review of English literature	16		10	16	
FRENCH						
1	Elementary French	32	4	20	32	1a
2	Elementary French	32	4	20	32	1b
3	Intermediate French	24	3	15	24	10a
4	Intermediate French	24	3	15	24	10b
6A	Elementary composition	16	2	10	16	15
6B	Intermediate composition	16	2	10	16	16 or 24
7A	Advanced composition	16	2	10	16	127
7B	Advanced composition (in preparation)					
8	Modern French dramatists	16 ,24 ,32	2 ,3 ,4	10 ,15 ,20	16 ,24 ,32	123
9	Modern French novelists	16 ,24 ,32	2 ,3 ,4	10 ,15 ,20	16 ,24 ,32	136
10	General survey of French literature	24	3	15	24	131
20	Advanced reading	16	2	10 or 15	16 or 24	20 a or b
21	Elementary survey	24	3	15	24	21a
22	Elementary Survey	24	3	15	24	21b
GEOLOGY AND GEOGRAPHY						
3	Physiography	24 or 40	3 or 5	15 or 25	24 or 40	3 cr.—5 5 cr.—1
4	General geology	24	3	15	24	Geol. 1
16	Geography of Europe	24	3	15	24	101
GERMAN						
1	Elementary German	32	4	20	32	1a
2	Elementary German	32	4	20	32	1b
3	Intermediate German	32	4	20	32	2a
4	Intermediate German	32	4	20	32	2b
6	Scientific German	16 ,24 ,32	2 ,3 ,4	10 ,15 ,20	16 ,24 ,32	19
7	Commercial German	16 or 24	2 or 3	10 or 15	16 or 24	
8	Critical German prose	16, 24, 32	2, 3, 4	10, 15, 20	16, 24, 32	16
12	German grammar review and composition	16, 24, 32	2, 3, 4	10, 15, 20	16, 24, 32	10

Course Number	Title of Course	No. of Assignments	Credits	Tuition in Wisconsin	Tuition outside Wisconsin	Course No. of Residence Equivalent
GERMAN	(Cont.)					
19	Elementary teachers' course	8		5	8	
20	Advanced teachers' course	16 or 32	2 or 4	10 or 20	16 or 32	347
25	Modern German dramatists	16, 24, 32	2, 3, 4	10, 15, 20	16, 24, 32	15
26	Modern German novelists	16, 24, 32	2, 3, 4	10, 15, 20	16, 24, 32	17
22	Schiller	16, 24, 32	2, 3, 4	10, 15, 20	16, 24, 32	20
21	Goethe	16, 24, 32	2, 3, 4	10, 15, 20	16, 24, 32	25
29	Goethe's Faust	24 or 48	3 or 6	15 or 30	24 or 48	130
30	History of German literature	48	6	30	48	131
	Part A	24	3	15	24	
	Part B	24	3	15	24	
31	History of the German language	16	2	10	16	150
GREEK						
1	Elementary Greek	40	5	25	30	1
1A	Elementary Greek—Pharr's Homeric Greek	32	4	20	25	
7	Xenophon's Anabasis	24	3	15	20	7(I)
7A	Reading course in Herodotus	24	3	15	20	7(II)
3	Homer: The Iliad	24	3	15	20	10
6	Advanced prose composition	16 to 30	2 or 4	10 or 20	16 or 32	110
5	Elementary composition	16	2	10	16	
106	Aeschylus: The Agamemnon	16	2	10	16	106
113	Ancient classical drama in English	16 or 24	2 or 3	10 or 15	16 or 24	
118	Classical mythology in literature	16	2	10	16	
HEALTH						
6	Prevention of disease and home care of the sick	8		4	8	
7	The prospective mother	8		4	8	
8	The child in health	8		4	8	
9	The child in disease	8		4	8	
HEBREW						
1	Elementary Hebrew	32	4	20	32	1
HISTORY						
1A	United States history	20		10	15	
1B	United States history	20		10	15	
87	Modern European history	16		10	15	
88	Modern European history	16		10	15	
2	American history (1760-1830)	24	3	15	24	4a
3	American history (1830-1877)	24	3	15	24	4b
6	English history	24	3	15	24	5a
7	English history	24	3	15	24	5b
8	Modern European history	24	3	15	24	2(I)
9	Modern European history	24	3	15	24	2(II)
10	History of the nineteenth century (1815-1870)	24	3	15	24	139
20	Oriental and Greek history	24	3	15	24	10(I)
21	Roman history	24	3	15	24	10(II)
12	Medieval history	24	3	15	24	1(I)
13	Medieval history	24	3	15	24	1(II)
349E	The teaching of history	16	2	10	16	349

Course Number	Title of Course	No. of Assignments	Credits	Tuition in Wisconsin	Tuition outside Wisconsin	Course No. of Residence Equivalent
HOME ECONOMICS						
1	Food problems in home making	8		5	8	
17	Selection and care of clothing	8		5	8	
6	Prevention of disease and home care of the sick	8		4	8	
7	The prospective mother	8		4	8	
8	The child in health	8		4	8	
9	The child in disease	8		4	8	
10	Clothing economics	16	2	10	16	10
15	Home furnishing and decoration	6		5	6	
19	Household management	8		5	8	
21	Art and design	24	3	15	24	2
25	The school lunch	8		5	8	
110	Household administration	16	2	10	16	110
INDUSTRIAL EDUCATION						
2	Teaching and supervision of industrial arts					
	Part A—Elementary school	16	2	10	16	363
	Part B—Junior high school	16	2	10	16	
3	Administration of industrial arts education	16	2	10	16	364
4A	Vocational education for the industries	16	2	10	16	152
4B	Direction and supervision of vocational education	16	2	10	16	153
5A	Educational and vocational guidance	16	2	10	16	113
5B	Vocational and educational counseling	16	2	10	16	116
ITALIAN						
1	Elementary Italian	32	4	20	32	1a
2	Elementary Italian	32	4	20	32	1b
3	Intermediate Italian	24	3	15	24	10a
LATIN						
1	Elementary Latin	40	5	25	30	1
2	Caesar	40	5	25	30	2
2A	Caesar	16	2	10	12.50	2 in part
3	Cicero: Orations	32	4	20	25	3
4	Virgil: Aeneid	40	5	25	30	4
4A	Virgil: Metre of the Aeneid	5		2.50	5	
5	Elementary composition	40	5	25	30	3 in part
6	Advanced composition	16 or 32	2 or 4	10 or 20	16 or 32	107
7	Livy, books I and XXI	24	3	15	24	6 in part
10	Cicero: De Senectute	16	2	10	16	6 in part
12	Terrence: Andria and Phormio	16	2	10	16	6 in part
14	Horace: Odes	24	3	15	24	7 in part
15	Horace: Satires and Epistles	24	3	15	24	7 in part
16	Catullus	16	2	10	16	7 in part
17	Ovid: Metamorphoses	16	2	10	16	8 in part
18	Propertius: Elegies	8	1	5	8	8 in part
19	Tibullus: Elegies	8	1	5	8	8 in part
20	Cicero: Letters and orations	24	3	15	24	108
113	Ancient classical drama in English	16 or 24	2 or 3	10 or 15	16 or 24	113
118	Classical mythology in literature	16	2	10	16	118

Course Number	Title of Course	No. of Assignments	Credits	Tuition in Wisconsin	Tuition outside Wisconsin	Course No. of Residence Equivalent
LIBRARY METHODS						
1	Library methods for teacher-librarians	32		16	32	
2	Cataloging	16		10	16	
3	Elementary school library methods	16		10	16	
MATHEMATICS						
1	Elementary algebra: Part A	20		10	15	
	Part B	20		10	15	
3	Plane geometry	40		20	30	
4	Solid geometry	20	3	15	20	8
5	Plane trigonometry	32	4	20	32	2
40	Advanced high-school algebra	20		10	15	50
6	College algebra	32	4	20	32	1
7	Analytic geometry: Part A	24	3	15	24	3 or 4
	Part B	8	1	5	8	
8	Elementary calculus: Part A	24	3	15	24	5a
	Part B	24	3	15	24	5b
51	Agricultural mathematics	32	4	20	32	71
55	Commercial arithmetic	10		5	10	
56	Mathematical theory of investment	32	4	20	32	7
57	Mathematics of life insurance	16	2	10	16	24
58	The theory of finite differences	8	1	5	8	
63	Theory of equations	24	3	15	24	125
64	Projective geometry	24	3	15	24	115
65	Advanced calculus	24	3	15	24	111
66	Differential equations	32	4	20	32	112
67	Theoretical mechanics	24	3	15	24	113
68	Higher algebra	24	1	15	24	263
117	Vector analysis	8	3	5	8	117S
40	Algebra for engineers	20		10	15	50
41	Elementary analysis	40	5	25	40	51
42	Elementary analysis	40	5	25	40	52
43	Elementary analysis	40	5	25	40	53
44	Differential calculus	32	4	20	32	54
45	Calculus	32	4	20	32	55
46	Calculus	32	4	20	32	
11	Practical arithmetic	8		4	8	
12	Mensuration and practical geometry	8		4	8	
9	Determinants and analytic geometry of three dimensions	24	3	15	24	6
13	Practical algebra	12		6	10	
14	Practical trigonometry	6		3	6	
15	Practical calculus	10		5	10	
31	Agricultural arithmetic	8		4	8	
62	Elementary algebra review	10		5	10	
MECHANICS						
1	Statics	24	3	15	24	1
2	Dynamics	16	2	10	16	2
3	Mechanics of materials	40	5	25	40	3
METEOROLOGY						
2	Climatology	40	5	25	40	106

Course Number	Title of Course	No. of Assignments	Credits	Tuition in Wisconsin	Tuition outside Wisconsin	Course No. of Residence Equivalent
MUSIC						
1	Theory of music, introductory	8		5	8	
5A	Harmony, elementary	24	3	15	24	1(I)
5B	Harmony, elementary	24	3	15	24	1(II)
61A	Harmony, advanced	24	3	15	24	11(I)
61B	Harmony, advanced	24	3	15	24	11(II)
31	Public school music	16	2	10	16	41S
75	History of music	32	4	20	32	31
97	Community music and drama	16	2	10	16	78
PHARMACY						
1	Pharmacy: Part A	24	3	15	24	1(I)
	Part B	24	3	15	24	1(II)
20A	Elementary prescription practice	16	2	10	16	20
20B	Prescription practice, solid preparations	16	2	10	16	20
121A	Prescription practice advanced	8	1	5	8	121
121B	Prescription practice advanced	8	1	5	8	121
30	Pharmaceutical technology	16	2	10	16	30
PHILOSOPHY						
11	Elementary logic	24	3	15	24	11
5	Applied logic (in preparation)					
PHYSICS						
1	Elementary physics	40		20	30	
87	Physics review	12		6	12	
5	University physics	24	3	15	24	1a
6	University physics	24	3	15	24	1b
51E	Engineering physics	24	3	15	24	51
52E	Engineering physics	24	3	15	24	52
57	Physical optics	16	2	10	16	117
POLITICAL SCIENCE						
4A	American diplomacy	16	2	10	16	123
137	International law and organization	24	3	15	24	137
PSYCHOLOGY						
1	General psychology	24	3	15	24	1
3	Educational psychology	24	3	15	24	Educ. 41
61A	Psychology of individual differences	24	3	15	24	143
61B	Psychology of learning and the original nature of man	24	3	15	24	144
PUBLICITY						
	Writing publicity for clubs	8		5	8	

Course Number	Title of Course	No. of Assignments	Credits	Tuition in Wisconsin	Tuition outside Wisconsin	Course No. of Residence Equivalent
PULP AND PAPER MANUFACTURE						
245	Preparation and treatment of wood pulp	32		25	32	
245A	Manufacture of mechanical pulp	20		20	25	
245B	Manufacture of sulphite pulp	19		20	25	
245C	Manufacture of soda pulp	18		20	25	
245D	Manufacture of sulphate pulp	20		20	25	
246	Manufacture of paper (complete course)	32		25	32	
246A	Beating, refining, and paper machines	25		20	25	
246B	Paper machines	14		15	20	
SCIENCE						
1A	General science	16		10	15	
1B	General science	16		10	15	
SOCIOLOGY						
15	Social psychology	24	3	15	24	139
16	General sociology	24	3	15	24	140
17	Practical sociology	24	3	15	24	141
24	Social problems	24	3	15	24	2
25	Rural sociology	24	3	15	24	25
177	Social agencies and social legislation	16	2	10	16	177
SPANISH						
1	Elementary Spanish	32	4	20	32	1a
2	Elementary Spanish	32	4	20	32	1b
3	Intermediate Spanish	24	3	15	24	10a
4	Intermediate Spanish	24	3	15	24	10b
5	Spanish	16 or 24	2 or 3	10 or 15	16 or 24	20 in part
7	Don Quijote, Part I	24	3	15	24	104(I)
8	Don Quijote, Part II	24	3	15	24	104(II)
SPEECH						
1	Elementary speech writing	8		5	8	
30	Debate	8		5	8	
396	Speech teaching problems	16	2	10	16	396
TEACHERS' REVIEW COURSES						
63	Grammar and elementary composition	10		5	10	
81	American literature	12		6	12	
91	English literature	16		10	16	
62	Elementary algebra	10		5	10	
87	Physics	12		6	12	

SPECIAL COURSES

	Tuition in Wisconsin	Tuition outside Wisconsin
BUSINESS		
Complete course in bookkeeping and accounting	$155.35	$213.75
Private and general accounting	$ 66.25	$ 92.65
Cost accounting	$ 88.00	$122.40
Public accounting	$132.60	$183.00
Business law	$ 32.00	$ 33.60
Retailing	$ 46.74	$ 53.94
CIVIL ENGINEERING		
Surveying	$ 42.80	$ 62.40
Structural steel drafting	$ 44.50	$ 65.50
Reinforced concrete engineering	$ 73.80	$106.20
Structural steel engineering	$ 95.80	$153.80
Building design and construction	$ 79.30	$130.40
Structural engineering	$128.80	$206.10
ELECTRICAL ENGINEERING		
Meterman's course	$53.15 or $54.90	$85.95 or $87.70
Electrician's course	$54.15 or $55.90	$91.15 or $92.90
Electrical design	$117.17	$156.95
MECHANICAL ENGINEERING		
Shop and industrial mathematics	$ 20.85	$ 36.85
Mechanical drawing	$ 39.52	$ 50.52
Drafting	$ 63.82	$ 90.22
Machine design	$111.70	$154.97
Architectural drafting	$ 44.85	$ 55.45
Steam engineering	$ 40.85	$ 60.05
Steam power plants	$ 81.30	$119.70

EXTENSION CLASSES

While extension classes are organized in various communities of the state whenever it is feasible to do so and wherever a sufficient number of persons having a common interest in a given subject request such work, extensive class organization work has been developed only in the larger cities. Many of the courses given by class instruction involve university credit for properly qualified persons. Other courses are organized and given independent of all curricular requirements for degrees, but definitely planned for vocational or avocational purposes.

MILWAUKEE CENTER

CHARLES MALTADOR PURIN, Ph. D., PROFESSOR OF GERMAN, DIRECTOR
MALCOLM GILES LITTLE, M.A., ASSISTANT DIRECTOR

CHARLES EDMUND YOUNG, Ph.D., *Professor of Romance Languages*
WILLIAM JOHN FULLER, B.A., *Associate Professor of Structural Engineering*
MALCOLM SHAW MACLEAN, Ph.D., *Associate Professor of English*
GEORGE AMBROSE PARKINSON, Ph.D., *Associate Professor of Mathematics*
MARION REXFORD SCHNAITTER, M.A., *Associate Professor of Economics*
GEORGE GALLOWAY TOWN, Ph.D., *Associate Professor of Chemistry*
HARRY THOMPSON AVEY, M.E., *Assistant Professor of Mechanical Engineering*
LEO STARR BALDWIN, B.S., *Assistant Professor of Drawing*
JOHN JOSEPH CREAMER, B.A., LL.B., *Assistant Professor of English*
SARAH KATHERINE LEHMAN, M.A., *Assistant Professor of English*
PETER STEPHEN MCGUIRE, Ph.D., *Assistant Professor of History*
MILES J. MARTIN, M.S., *Assistant Professor of Physics*
WILLIAM EDWARD ROTH, Ph.D., *Assistant Professor of Mathematics*
META MARY STEINFORT, M.A., *Assistant Professor of Spanish*
HERBERT WILLIAM WESLE, B.S., *Assistant Professor of Topographic Engineering*
GEORGE HERMAN ABENDROTH, B.S., *Instructor in Civil Engineering*
RUTH MARGERY ADDOMS, Ph.D., *Instructor in Botany*
FLORENCE LILLIAN AXEN, M.A., *Instructor in Mathematics*
DONALD CLARKE BOUGHTON, M.S., *Instructor in Zoology*
LEONIDAS HAMLIN BUNYAN, M.A., *Instructor in Mathematics*
GEORGE DAUPLAISE, B.Ed., *Instructor in Chemistry*
LESTER THOMAS EARLS, B.A., M.S., *Instructor in Physics and Mathematics*
LESTER ARNOLD HANSEN, B.S., *Instructor in Chemistry*
FRANK HOWE HOLLISTER, B.S., *Instructor in Civil Engineering*
MRS. ELISABETH KATZ HOLMES, B.A., *Instructor in English*
JOHN HOWARD JACOBSON, B.A., *Instructor in English*
HILMAR CARL KRUEGER, B.A., *Instructor in History*
HARRY LEWIS KUNZE, M.A., *Instructor in Accounting*
WILLARD HEGLAND MADSON, B.A., M.S., *Instructor in Chemistry*
ALICE LOUISE MOORE, B.A., *Instructor in English*
CAROL JOSEPHINE SANDY, M.A., *Instructor in French and Spanish*
MRS. FLORENCE CLARKE STEHN, M.A., *Instructor in French*
MRS. FRIEDA ANNE MARIE VOIGT, B.A., *Instructor in German*
CLARENCE HERMAN WINNING, B.A., *Instructor in Chemistry*
MRS. IRENE ETTA LANGWILL, B.A., *Recorder*
ELSIE LAURA JAECK, B.A., *Librarian*

The work of the Extension Division in Milwaukee is carried on through day classes in which students take a full-time program of work, and evening classes in which they carry a part-time schedule of studies in the evening or late afternoon. The first unit of the new University Extension Building occupies a portion of the block between Sixth and Seventh streets, facing State street. It has fully equipped science laboratories, spacious classrooms, and a library.

The fees in both day and evening classes are computed on the basis of the number of credit hours carried, the rate being $5.00 per credit hour. This does not cover the cost of textbooks or laboratory charges.

DAY CLASSES

The day classes offer complete programs of the work of the freshman and sophomore years in Engineering and Letters and Science, including pre-commerce, pre-journalism, pre-law, and pre-medicine.

With respect to their content, as well as with respect to general approach, the various courses offered in day classes are parallel to the courses listed under the same designations in the University at Madison. They have been approved by the respective residence departments at Madison and carry full credit toward a university degree.

In addition to the above credit courses, a two-year day class course in Building Design and Construction is offered, giving specialized, intensive training in the design and construction of buildings. It is of particular interest to men who wish to become building inspectors, construction superintendents, structural or architectural draftsmen, or structural designers. A certificate is given by the Extension Division upon the satisfactory completion of the course.

ADMISSION REQUIREMENTS. The requirements for matriculation in the day classes, except for the course in Building Design and Construction, are in all respects the same as in the University at Madison. The general requirements for admission to the course in Building Design and Construction are two years of high-school work or its equivalent, including two semesters of high-school algebra. Experience in engineers' offices, drafting rooms, or on construction work will be given consideration toward entrance requirements. Students who are especially well prepared will be allowed to enter the second semester.

EVENING CLASSES

The courses offered in evening classes may be classified under four distinct heads:

University Credit Courses
Business Certificate Courses
Engineering Certificate Courses
Liberal Education Certificate Courses

The University Credit Courses are open to those who wish to obtain credits toward a degree during their spare time. To obtain such credits students must have satisfied the entrance requirements of the University and must have the prerequisites for the courses taken.

With a few exceptions, the Business and Engineering Certificate Courses do not offer credits leading to a degree. On the completion of a three-year evening course of study, a certificate is given by the Extension Division. Certificates are offered in the following fields of commerce and engineering: General Business, Accounting, Marketing and Advertising, Finance and Credit, Industrial Management, Secretarial Work, Building Design, Machine Design, Radio Engineering.

The underlying purpose of the series of courses in Liberal Education is to give an opportunity for adults to acquire an education which will create a feeling for those things which make life richer and more significant. A certificate is given on the completion of ten courses from this group.

POSTGRADUATE MEDICAL EXTENSION

FRANCES BRYCE VAN ZANDT, B.S., *Librarian*
ALLEN GRANT DUNCAN, M.A., M.P., *Curator*
EVELYN MAHLEY FERMIER, B.A., *Assistant Librarian*

In cooperation with the Medical School of the University, the Extension Division offers the following services to members of the medical and associated professions of Wisconsin:

MEDICAL LIBRARY SERVICE. Books, periodicals, reprints, abstracts, and bibliographies on medical subjects are supplied upon request, free of cost except for postage both ways on material lent.

EXTRA-MURAL LECTURES. Addresses by members of the university medical faculty and associated preceptors are arranged for meetings of medical societies.

LECTURE-CLINICAL COURSES. Competent leadership is provided for practitioner groups organized at county or district centers for the clinical and theoretical study of modern developments in treatment.

CLINICAL CASE REPORTS. This service will be extended to physicians desiring information on cases of clinical importance studied at the University and other medical and surgical centers.

SHORT COURSES. From time to time university facilities will be made available and short courses organized in particular subjects, open to the medical and associated professions of the state.

DEPARTMENT OF DEBATING AND PUBLIC DISCUSSION

ALMERE LOUISE SCOTT, B.A., DIRECTOR

IDA MARIE GANGSTAD, B.A., *Assistant Professor of Library Methods*
LEONA ESSIE FREDERICA MCCUTCHEON, M.A., *Instructor in Debating and Public Discussion*
MINNIE HENRIETTA POPE, B.A., *Instructor in Debating and Public Discussion*
MAMIE AMELIA SANDERS, B.A., *Instructor in Debating and Public Discussion*
MRS. GEORGIA METZGER CORP, *Assistant in Debating and Public Discussion*
MRS. IONE BIRD MEYERS, *Assistant in Debating and Public Discussion*
RUTH MARY ROWLAND, *Assistant in Debating and Public Discussion*

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 to residents of the state, and keeps in close touch through correspondence and personal inter-

views 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.

GUIDED STUDIES

To meet a demand for group direction in serious study, the department offers Guided Studies. A registration fee of four dollars within Wisconsin and five dollars outside the state covers the cost of four sets of any of the studies. This fee also covers the privilege of guidance and directed study. For the accommodation of groups that wish to supply personal copies to members, additional sets are supplied at the cost of production.

Among the subjects on which studies are now available are: Parental Guidance and Education; Recent History of the United States; Browning; Contemporary Drama; Contemporary Novel; Novel of the Nineteenth Century; Shakespeare; American Diplomacy; Pan-Americanism; United States and World Politics; Political Parties and Practical Politics.

STUDY PROGRAMS. Topical programs are available on Africa, Child Nurture in the Home, China and Old Glassware, Modern Italy, and the Map of New Europe; others are in the process of preparation. These programs may be purchased outside of the state of Wisconsin at sixty cents for the first copy, for additional to ten, fifty cents each, and thirty-five cents each for ten or more; within the state, fifty cents for the first copy, thirty-five cents each for additional to ten, and twenty-five cents each for ten or more. In cooperation with public libraries and state library commissions, the department aims to make the necessary reference material available to study groups and to individuals.

BULLETINS

Several compact and useful bulletins have been issued as aids to debaters, including: Debating Societies—Organization and Procedure; Principles of Effective Debating; How to Judge a Debate; and Triangular Debating Leagues. As special aids to organizations, bulletins on farmers' clubs, civic clubs, and parent-teacher associations have been published. The Triangular Discussion League bulletin suggests a plan to encourage the study and the intelligent discussion of great current problems not suited to a two-sided contest, but rather suited to a general discussion which brings out the many sides and salient facts.

FORMULATED QUESTIONS. The bulletins which formulate subjects for debate, giving brief historical facts and arguments, concluding with a selected, classified bibliography, serve as an impetus to careful study and have proved helpful and time-saving. Such questions as the following have been thus presented: Closed vs. Open Shop; Commission Plan of City Government; Initiative and Referendum; Municipal Home Rule; The Recall; and Unemployment Insurance. These publications are sent free upon request to Wisconsin citizens, and, upon receipt of list price, outside of the state.

MIMEOGRAPHED MATERIAL. Cuttings for public speaking in schools and for special programs, and also mimeographed articles not easily available on Installment Selling, Compulsory Automobile Insurance, and the Direct Primary, are available. The department will send lists to those interested.

LOAN OF MATERIAL

The loan package libraries include selected newspaper and periodical clippings, office-bound sections of periodicals, government documents, publications of organizations, copies of addresses, reprints, typewritten excerpts, books—in fact all forms of carefully selected available material dealing in a fair and balanced manner with the different phases of worthwhile subjects. 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 and thus avoid unnecessary duplication and expense.

DEPARTMENT OF PUBLIC SERVICE

PURPOSE. The Department of Public Service is composed of bureaus which deal with the informal or non-consecutive type of service as distinguished from the more formal and systematic type of instruction. These bureaus are concerned with questions and problems of general interest and public welfare.

The department serves as a clearing house through which all reasonable inquiries of the people of the state on matters of collective import may receive consideration.

ORGANIZATION. The Department of Public Service operates through the following bureaus, each in charge of a specialist: Bureau of Lectures and Short Courses, Bureau of Visual Instruction, Bureau of Municipal Information, Bureau of Economics and Sociology, Bureau of Dramatic Activities, and Bureau of Business Information.

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 the presentation of such data in non-technical form from such 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, or an ethical character.

PUBLICATIONS. Bureaus of the Department of Public Service issue 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 Public Service has found the use of traveling exhibits and demonstrations upon such subjects as child welfare, health, recreation, and community-center work of very great value.

SOCIAL SERVICE INSTITUTES. For several years the Extension Division has offered to the communities of the state various types of institutes designed to assist in the solution of local problems. The Extension Division conducts, in cooperation with county superintendents, institutes for teachers

which are designed to train them for social leadership. Instruction in song leadership, dramatics, group games, folk dancing, and other forms of social activity has been given, through which teachers have been qualified for more efficient service in connection with parent-teacher associations and other community organizations.

BUREAU OF LECTURES AND SHORT COURSES

ROBERT B. DUNCAN, CHIEF

PURPOSE. For instruction and platform inspiration in communities where the lyceum need exists, the Bureau of Lectures and Short Courses 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 course 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, Semitic, French, and English life and letters, the physical sciences, engineering branches, forestry, and physical training. Bulletins containing detailed information will be sent upon 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.

SHORT COURSES AND INSTITUTES. A short course or institute is an intensive training program or course ranging in duration from one day to two weeks. The program consists of a specialized series of lectures, discussions, and demonstrations directed by leading speakers and teachers secured from the faculty of the University and from the state and country at large.

SPECIAL OCCASION LECTURES. This department furnishes speakers for special occasions, such as memorial and dedication exercises, convocation addresses in schools, and for commercial organizations, and civic and women's clubs.

EXPENSES. The local expenses include hall rent and advertising in the local papers, and the lantern and operator, where the lecture is illustrated. Full information concerning lecturers' fees will be supplied on application.

BUREAU OF VISUAL INSTRUCTION

JOHN ELMORE HANSEN, Ph.B., ACTING CHIEF
HELEN OSTERBIND, B.A., *Assistant in Visual Instruction*

For several years the Extension Division has lent educational lantern slides, motion picture films, mounted photographs, stereographs, filmstrips, and other illustrative material to schools, churches, clubs, and other organizations. This service is organized in 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. A complete catalog describing the material and service offered is mailed free upon request.

BUREAU OF MUNICIPAL INFORMATION

FORD H. MACGREGOR, M.A., CHIEF
CELIA HARRIMAN, B.A., *Instructor*

To meet the need for information in the important field of municipal government, information which is difficult to obtain and hard to keep up to date, a Bureau of Municipal Information is maintained for the service of the cities and villages of the state. The Bureau 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. It also gives 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. It 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 ECONOMICS AND SOCIOLOGY

ROY JEFFERSON COLBERT, M.A., CHIEF

As university studies in the social sciences have grown in interest and importance, there has developed an increasing demand for information, counsel, and service in the practical application of economic and sociological principles in the community. The Bureau of Economics and Sociology was instituted in 1927 to afford a channel through which to perform such services systematically and effectively. It is a cooperative undertaking of the Departments of Economics and Sociology and the Extension Division and is intended to promote a better understanding of the social and economic resources of Wisconsin and to make readily available to the people of the state the University's knowledge, experience, and researches in the handling of social and economic problems.

The functions of the Bureau, as at present being developed, are: 1. To provide individuals, groups, and communities of the state with counsel, information, and services in its field, in cooperation with other organized agencies, public and private. Such counsel and services are extended only when there is a definite request and when those making the request undertake active cooperation and assistance. 2. To collect, organize, and publish data relative to the social and economic resources of the state, in cooperation with the Departments of Economics and Sociology and state governmental departments.

BUREAU OF DRAMATIC ACTIVITIES

ETHEL THEODORA ROCKWELL, B.A., CHIEF

In response to a growing demand for assistance in the selection and staging of plays and pageant-dramas in the schools, churches, and communities of the state, the Bureau of Dramatic Activities was organized in 1927 as a cooperative agency of the Extension Division and the Department of Speech. In its functions the drama work of the former Bureau of Community Drama and Music of the Extension Division is resumed and expanded.

Correspondence on all questions relating to the arrangement and presentation of local-talent productions is invited. Specifically, the Bureau is prepared to render to schools, churches, clubs, and communities of the state, upon request, the following services:

PLAY DIRECTING. As far as time permits, a representative of the Bureau will visit communities in the state to direct the actual staging of plays in all necessary details.

PAGEANT WRITING AND DIRECTING. Advice and local assistance will be rendered to communities contemplating the presentation of commemorative, historical, patriotic, or civic pageants.

ASSISTANCE IN CONDUCTING OR ORGANIZING COMMUNITY CHAUTAUQUAS OR PROGRAMS FOR FAIRS.

LENDING DRAMATIC MATERIAL. The Bureau has built up an extensive library of plays—long and short, modern and classical—suitable for children, high-school students, college students, and adult groups. Upon request a selection of books will be sent free of charge for examination.

ORIGINAL PLAY-WRITING. The Bureau desires to encourage the writing of original plays and will assist in conducting tournaments in playwriting in the schools and communities of the state.

ANNUAL DRAMATIC INSTITUTE. This institute, held the first two weeks of the regular summer session, gives intensive courses in play production, play writing, stage-craft design, pantomime, costume design, make-up, voice training, and children's dramatics. A small registration fee is charged.

BUREAU OF BUSINESS INFORMATION

H. R. ENGLISH, M.A., CHIEF

PURPOSE. To serve as an impartial agency through which the business men of Wisconsin may obtain accurate information on subjects related to their work is the object of this Bureau. Facts and figures are collected from many governmental, university, and private sources.

ANSWERS TO INQUIRIES. In response to inquiries the Bureau supplies available data on topics in the fields of accounting and statistics, retail store management, advertising and selling, business organization and management, federal and state income tax regulations, real estate, foremanship training, business correspondence, credits and collections, and business finance. When a request for information can not be answered completely by letter, published source material is lent to the inquirer.

PUBLICATIONS. *The Wisconsin Retail Bulletin*, which contains business items, suggestions, and statistics in condensed form and special articles on matters of current interest to merchants, is published monthly. Upon request it is sent, without charge, to retailers within the state.

Lists of recommended books are being prepared and distributed, covering the various fields of business. From time to time other publications containing information of interest to Wisconsin business men will be issued.

RETAIL CONFERENCES. Each year retail conferences are conducted in a number of Wisconsin cities by members of the bureau staff. Practical ideas on retail merchandising and selling are exchanged through addresses and round table discussions, as well as by individual conferences in the stores.

FIELD ORGANIZATION

CHESTER ALLEN, DIRECTOR

MARSHALL CONANT GRAFF, M.A., *District Representative, Appleton*
BENNO WALTER MEYER, B.S.A., *District Representative, LaCrosse*
DENNETT BARRETT, B.A., *Field Representative, Madison*
NELSON DAVID CONNERS, B.A., *Field Representative, Milwaukee*
MARY KATHERINE FARRELL, B.A., B.M., *Field Representative, Madison*
EDWARD MILTON GORROW, *Field Representative, Appleton*
OTTO L. KRASSELT, B.A., *Field Representative, Ashland*
WILLIAM HENRY H. LIESCH, *Field Representative, Oshkosh*
MRS. HELENE P. PESTALOZZI, *Assistant in Field Organization*

For convenience and efficiency of administration the state is divided into districts in which field representatives are permanently located to organize and to make known the many opportunities available to each individual and community through the Extension Division.

Persons living anywhere in the state are thus able to have a personal conference in their own city with a university representative and are able to secure conveniently complete information regarding all the services of the Extension Division, such as, correspondence-study courses; local classes; package libraries, including medical; lectures and short courses; lantern slides and motion picture films; municipal information; dramatic activities; and information on problems of business, economics, and sociology.

The field representatives are ready at all times to give assistance in organizing these activities for the use of the local community and may be reached promptly through the Field Organization office at Madison.

PART VIII—
OTHER DIVISIONS OF INSTRUCTION

SUMMER SESSION
PHYSICAL EDUCATION
MILITARY SCIENCE

SUMMER SESSION

SCOTT H. GOODNIGHT, DIRECTOR

The Summer Session, instituted thirty-two years ago as a period of study and review for teachers, has become an integral part of the university year, with nearly all departments represented. The courses range 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 (inter-collegiate 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.

Courses, both academic and professional, are offered for graduates and for undergraduates in letters and science, education, 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. A special bulletin describing the various courses is issued annually, copies of which may be obtained upon application to the Director.

UNDERGRADUATES. The admission requirements for a student who desires credit toward a degree at Wisconsin are the same for the summer session as for the other sessions at the University; these are described in detail beginning with page 33. A student who desires to graduate from the University and who comes with advanced standing from a normal school or from another college or university, should submit a complete official record of his preparatory work and college credits to the advanced standing committee of the college he expects to enter.

A student who wishes to secure credit toward graduation at some other institution, but who is not a candidate for a degree at Wisconsin, need not comply with the entrance requirements but may register upon presentation of a satisfactory statement of status and aims. Forms for such statements are provided in the summer session bulletin. Upon registration by this

method, a student may enroll in any course or courses, which, in the estimation of the instructor in charge, he is able to carry to advantage. Upon satisfactory completion of such work, application may be made to the Registrar for a transcript of credits stating the number of hours of work carried and the grades earned. Credit toward graduation at this University, however, will be given only after complete matriculation by one of the regular methods.

GRADUATES. A general statement of work in the Graduate School may be found on page 378 of this catalog. The Graduate School also publishes a special bulletin containing detailed information.

The University has instituted special nine-week summer session courses for graduate students only. In 1929, over 50 courses of strictly graduate grade were offered, enabling graduate students to earn one-half semester of residence credit toward a higher degree. To be eligible to carry these courses, a student must be enrolled in the Graduate School and must have had his candidacy for a higher degree approved. No residence credit is allowed unless the full nine-week courses are completed. No auditors are permitted in the nine-week courses. It is probable that in future summers the number and range of the nine-week courses will be increased.

The inauguration of nine-week courses does not affect the privilege of doing graduate work in the six-week session, except that the number of graduate courses offered in the latter is somewhat decreased.

SPECIAL STUDENTS AND AUDITORS. Adults who desire to pursue college work for their profit or pleasure, but without reference to a degree, and 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, taking such courses as may be open to them, as indicated in the summer session bulletin. Auditors pay the same fee as other students and enjoy the same privileges, except that of being included in recitation and theme work.

CREDITS. The maximum number of credits which may be earned toward a degree at Wisconsin is six for the six-week session, eight for the ten-week session of the Law School, and one for each week of pre- or post-session or special work for which the student is properly registered. In the Graduate School, credit is by period of residence only, a six-week session yielding one-third of a semester and a nine-week session yielding one-half a semester of residence credit toward a higher degree.

SUMMER SESSION FEES

INCLUDING TUITION, INCIDENTAL, AND INFIRMARY (BUT NOT LABORATORY) FEES

The same fees are charged to both residents and non-residents of Wisconsin.

I. For undergraduates and graduates in all colleges and schools, except the Graduate School, the basic rate is $4.50 per week plus special fee of $2.00 for the Infirmary and $1.50 for the Union.

Classification	Period	Tuition	Infirmary and Union	Total
Railway Engineering	2 weeks	$ 9.00	----	$ 9.00
Field Courses	4 weeks	18.00	----	18.00
Chemical Engineering	5 weeks	22.50	3.50	26.00
General Session Undergraduates	6 weeks	27.00	3.50	30.50
Law School	10 weeks	45.00	3.50	48.50

II. For graduates admitted to registration in the Graduate School, the rate is $5.00 per week plus Infirmary and Union fees

General Session Graduate School	6 weeks	$30.00	$3.50	$33.50
Special Courses Graduate School	9 weeks	45.00	3.50	48.50

Pre- and Post-Session Fees

Undergraduate: $4.50 per week. If registrant was not in Summer Session, $8 for first week and $4.50 for each succeeding week.

Graduate: $5 per week. If registrant was not in Summer Session, $8.50 for first week, and $5 for each succeeding week.

FEES FOR RESEARCH STUDENTS NOT EARNING CREDIT

Graduate students engaged in independent research and not earning credit in any form shall register in the Summer Session, paying a fee of $5, plus laboratory or library fees as their work may necessitate.

Graduate students pursuing no courses but who are candidates for an oral examination during the session, may register after the third week of the session for a fee of $10, but may earn no credit.

Refunds for the six-week session are authorized as follows: if the student withdraws between opening day and first Friday, 80%; between first Saturday and second Wednesday, 60%; between second Thursday and third Monday, 40%; between third Tuesday and third Saturday, 20%; after the third Saturday, no refund.

OTHER EXPENSES. In courses involving laboratory work, additional fees are charged; these correspond closely to the laboratory fees charged for the same courses taken during the academic year. Other expenses for the six-week session may be estimated from the following: room-rent, $15–$30; board, $40–$55; books and classroom materials, $8–$15; incidental expenses, including laundry, $16–$60; total, not including fees or traveling expenses, $78–$160.

PHYSICAL EDUCATION

The Department of Physical Education has jurisdiction over all athletic, aquatic, and gymnastic activities. Its aims are: (1) to promote the physical development of the students by (a) contributing to their health, organic vigor, and good physical habits, (b) providing 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, and (c) conserving the social and moral values of games and sports and securing to every student the fullest opportunity for their practice; (2) to train physical educators and play leaders; and (3) to promote a more effective organization of play and administration of physical education throughout the state of Wisconsin.

EXEMPTIONS AND DEFERMENTS

All applications for deferment of or exemption from physical training for men must be made at the office of the Director of the Men's Gymnasium; women will apply to the Director of the Women's Gymnasium in Lathrop Hall. In no case will permission be granted to defer work for more than one semester at a time and no deferred work will be allowed to extend into the senior year.

I. EXEMPTIONS PROVIDED FOR BY THE RULES OF THE UNIVERSITY

1. Students who are physically unfit, as certified by the Department of Student Health.
2. Normal-school graduates and those who enter the University with college credits sufficient to give them junior standing.

II. EXEMPTIONS UNDER THE POLICY OF THE DEPARTMENT

1. Students from institutions of college or university rank who have taken accredited courses in physical education, providing proper credentials are presented.
2. Adult special students over 23 years of age who are not candidates for degrees.
3. Other cases, in the discretion of the Director.

III. DEFERMENTS REQUIRED TO BE MADE UP IN THE DEPARTMENT

1. Self-supporting students where the hours of labor actually conflict with hours of required work.
2. All cases not falling under any of those previously mentioned.

MEDICAL AND PHYSICAL EXAMINATIONS

The organic condition, stage of physical development, and degree of motor efficiency attained by each entering freshman and sophomore are determined at the opening of the college year by a series of examinations and tests made by the Department of Student Health 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 therefor, as determined by the examination. All candidates for football and other teams must be examined by and secure the permit of the Department of Student Health as well as that of the Department of Physical Education before reporting for practice with their squads.

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.

MEN'S DIVISION

GEORGE E. LITTLE, DIRECTOR

EQUIPMENT

The men's gymnasium, 200 by 100 feet, with an annex 225 by 84 feet, is located on the shore of Lake Mendota. On the ground floor are the offices, locker rooms, showers, and swimming pool. The second floor is an unobstructed hall 165 by 98 feet, used for military science, intramural activities, and varsity basketball. The main gymnasium hall, 165 by 65 feet, is located on the third floor and includes the usual gymnasium equipment, wrestling room, and handball courts. The annex is equipped with a 12-lap cinder track, a baseball cage, and a rowing room.

The outdoor facilities of the department include the university athletic field of 33 acres at Camp Randall; a concrete stadium seating 42,000; a quarter-mile track with a 220-yard straightaway; the varsity football field within the quarter-mile track, and five additional football fields; a varsity baseball diamond, two freshman diamonds, and six additional practice fields; and 24 tennis courts. The new intramural fields comprise thirteen acres of ground; included in this area are four regulation football fields serving a dual purpose (three regulation baseball diamonds are laid out on this area in the spring), thirteen tennis courts, a sixth-mile track, a 120-yard straightaway, an area for high-jumping, pole-vaulting, and javelin throwing, and three diamond-ball courts. The construction of a golf course is also being considered.

The lower campus, an open playground of two acres located directly in front of the men's gymnasium, is used for the required activities of the department during the early fall and spring. During the winter months this campus is flooded and used for varsity and intramural hockey.

The new field house, 234 by 205 feet, now under construction at the southwest corner of Camp Randall, is expected to be in operation by October, 1930. The track facilities in this building include an eighth-mile track, two 60-yard straightaways, and a moulder's clay surface for field events. Basketball facilities include an exhibition and a practice court, both with removable floors in order to permit football practice in the fall and baseball in the spring, during periods of inclement weather. The field house will seat 8,000 spectators, with provisions for an increase up to 12,000.

Extensive water sports are promoted during the spring and summer months. Lake Mendota, which adjoins the campus, affords excellent opportunities for swimming, canoeing, and crew. The university boat house, just back of the men's gymnasium on the lake shore, is equipped with eight-oared shells, four-oared barges, and "war" canoes, and provides storage room for canoes belonging to students. Two modern, high-speed launches of 100 and 125 horse-power, supplied with complete life-saving equipment, are kept in constant commission for instant service throughout the boating season.

Outdoor winter sports are particularly encouraged. There are opportunities for skating and hockey on the rinks maintained by the department on Lake Mendota and on the lower campus. A ski jump of 115 feet has been constructed, which is one of the best in this part of the country. The University also maintains a toboggan slide. Lake Mendota offers excellent opportunities for ice boating.

REQUIREMENTS FOR MEN

Freshman and sophomore men are required to take three hours a week of either physical education, military science, or band instruction. The requirement in physical education may be satisfied through participation in team sports, intra-mural sports, or physical education classes. These may be selected from the list of activities given below. All men electing any phase of physical education must register at the men's gymnasium at the regularly appointed time at the beginning of each semester.

The regulation indoor suit for men consists of a white sleeveless shirt with "Wisconsin" across the front, white running pants with cardinal trim, supporter, sweat socks, and rubber soled shoes. The outdoor suit consists of heavy shoes, long khaki trousers, and a plain gray sweat shirt.

The gymnasium fee is $2.00 each semester, required of each student taking either optional, required, or elective work in the department. Freshmen and sophomores are assigned cubicles with a combination padlock. A deposit of one dollar is required for this lock, refund being made when the students returns the lock.

VARSITY SPORTS

FALL	WINTER	SPRING
Baseball	Basketball	Baseball
Basketball	Crew	Crew
Crew	Fencing	Cross-country
Cross-country	Gymnastics	Football
Fencing	Ice hockey	Golf
Football	Skating	Tennis
Gymnastics	Skiing	Track
Swimming	Swimming	
Track	Track	
Wrestling	Wrestling	

INTRAMURAL SPORTS

Football	Basketball	Baseball
Football (touch)	Bowling	Diamond ball
Cross-country	Boxing	Golf
Tennis	Hockey	Tennis
	Swimming	Track
	Track (indoor)	
	Water-polo	
	Wrestling	

PHYSICAL EDUCATION CLASSES

Basketball	Basketball	Baseball
Corrective	Boxing	Corrective
Cross-country	Corrective	Cross-country
Fencing	Fencing	Gym
Football (touch)	Gym	Swimming (advanced)
Gym	Swimming (advanced)	Tennis
Swimming (beginners only)	Track	Track
Track	Tumbling, apparatus, and stunts	
Tumbling, apparatus, and stunts		

NOTE: All non-swimmers electing intramural sports or physical education classes are assigned to a beginners' swimming class the first semester. All students taking physical education are required to be able to swim a distance of fifty yards by the end of the sophomore year.

ATHLETIC COMPETITION FOR MEN

Interclass and intercollege 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 co-operation of the intramural athletics committee of the Athletic Board, consisting of six students representing Agriculture, Commerce, Engineering, Law, Letters and Science, and Medicine.

The University is a member of the Western 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 unsatisfied failures, conditions, or incompletes, (4) has received a weighted average of at least .8 of a grade-point 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.

WOMEN'S DIVISION

BLANCHE M. TRILLING, DIRECTOR

EQUIPMENT

The Women's Division occupies five floors of Lathrop Hall. The main gymnasium is two stories high, with floor 118 by 60 feet, visitors gallery, stage, and running track. The gymnasium annex, located adjacent to the main gymnasium, is used for smaller classes. A small gymnasium, dance studio, and lecture room are on the fifth floor. Each room is suitably equipped for the type of class conducted there. Two floors of one wing contain dressing rooms, showers, and lockers, designed for the accommodation of 1,000 students. In the basement are four bowling alleys, the swimming pool 60 by 26 feet, well lighted and ventilated, and supplied with filtered and chlorinated water. Just off the swimming pool are dressing rooms, showers, and hair-drying apparatus.

CONTESTS AND TOURNAMENTS FOR WOMEN

The Women's Athletic Association cooperates with the Department in the conduct of women's activities. "Sports-for-all" is the objective towards which the Women's Athletic Association is working. The activities are numerous and diverse so that every girl may enjoy some form of exercise.

Intramural activities interest large numbers of girls; class teams are active during the entire year in all the various sports; the W. A. A. Cottage on Lake Mendota affords excellent opportunities for week-end parties and picnics; Outing Club promotes interest in such activities as hiking, skiing, coasting, tobogganing, and ice skating; Dolphin Club stimulates interest in swimming, diving, and water games; Orchesus is an advanced dancing class organized to give opportunity beyond the regular scheduled class work.

REQUIREMENTS FOR WOMEN

The equivalent of two hours a week is required in each season of all freshman and sophomore women, to be elected from the list of activities given below.

The college year is divided into four terms, (1) Fall—September to November; (2) Winter—November to February; (3) February to April; (4) Spring—April to June. At the beginning of each of these terms, all women taking elective or required work must register in Lathrop Hall for their work for the coming term. This must be done at the appointed time regardless of whether physical and medical examinations have been taken.

FALL	WINTER*	SPRING
Archery	Basketball	Archery
Corrective work	Baseball	Baseball
Dancing	Bowling	Canoeing
Field hockey	Corrective work	Corrective work
Horseshoes	Dancing	Dancing
Golf	Fencing	Field and track
Health work	Fundamental gymnastics	Golf
Riding	Golf	Health work
Swimming	Health work	Riding
Tennis	Ice hockey	Swimming
Volley ball	Outdoor Sports	Tennis
	Riding	
	Skating	
	Skiing	
	Swimming	

* A study of the laws of personal and general hygiene is included in the winter work.

The required swimming test must be passed before the end of the sophomore year. All students who are not physically fit to participate in the sport program are required to enroll in corrective or health classes.

For women a uniform suit is required and should be purchased in the fall in Madison; the cost is about $7.50.

The gymnasium fee is $2.00 each semester, required of each student taking either required, optional, or elective work in the department.

MILITARY SCIENCE

TOM FOX, *Major of Infantry USA, Commandant and Professor of Military Science*

GEORGE EDWIN FINGARSON, B.A., *Captain of Infantry USA, Assistant Professor of Military Science*

GEORGE ALLAN MILLER, *Captain of Infantry USA, Assistant Professor of Military Science*

DONALD CHARLES BURNETT, LL.B., *Captain of Infantry USA, Assistant Professor of Military Science*

FRANK CELESTINE MEADE, *First Lieutenant Signal Corps USA, Assistant Professor of Military Science*

HARRY LOVEJOY ROGERS, JR., *First Lieutenant of Infantry USA, Assistant Professor of Military Science*

FREDERICK WILLIAM POST, *First Sergeant USA Retired, Assistant to the Commandant*

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 those 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 in military science and tactics, to lead the units of the large armies upon which the safety of the country will depend.

The courses in military training prepare for leadership in civil life as well as in the military service, for the same qualities are demanded in both. The tactful handling of men, the ability to cooperate with others, the organization of effort and resources are common factors of success in either military or civil life. Military training develops efficiency, patriotism, leadership, and those qualities of manliness so essential in all walks of life.

The courses provide the ground work upon which to build military character and proficiency, and are designed to develop the greatest possible initiative on the part of the student. They also provide that the cadet officers and non-commissioned officers shall participate in the administration and training and share in the responsibilities thereof.

REQUIREMENT

Freshman and sophomore men are required to take three hours a week of either military science, physical education, or band instruction. If military science is elected, it must be pursued continuously for two years, unless deferment of the course is secured from the Military Department. However the two years must be completed in any case prior to graduation unless excused because of permanent physical disability.

Students entering from schools where they have had the basic ROTC course may take the advanced course in the freshman year in fulfillment of the general option in military science, but without academic credit. In the sophomore year the advanced course may be elected for academic credit as well as in fulfillment of the option.

RESERVE OFFICERS' TRAINING CORPS

The Department of Military Science comprises Infantry and Signal Corps 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 of basic and two years of advanced work. Three hours a week are required in the basic course and five in the advanced course.

Upon completion of the sophomore year of the basic course, those students who are selected for further military training by the President of the University and the Commandant may elect to take the work of the advanced course. This necessitates a written agreement on the part of the student that he will continue the work, taking it five hours a week for two years, 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 $9 a month for twenty-one months. Students enrolling in the advanced course must begin the work in such course at least two years prior to normal completion of the students' academic course, save in exceptional cases, and then only upon the fulfillment of certain conditions. Students who once begin either the basic or advanced course and later withdraw from college are under no obligation to the government whatever, unless they re-enter this institution at a later date, in which case they are required to continue their military science course.

Students are paid at the rate of $21 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 satisfactory completion of the advanced course, including the prescribed camp training, graduates who are twenty-one years of age are eligible for appointment by the President of the United States as members of the Officers' Reserve Corps, United States Army. Such graduates who are not yet twenty-one years of age are given certificates of eligibility for a commission. Upon reaching the age of twenty-one, these students are commissioned as Second Lieutenants, Officers' Reserve Corps, without any mental or physical examination.

UNIFORMS

Basic course students make one deposit of $10.00 upon beginning the course. Upon completion of the two-year course each student is refunded $5.00 and is permitted to retain his uniform. There is no additional cost, all arms and equipment being furnished by the Federal Government. Each advanced course student deposits $7.50 and in return receives an excellent uniform suitable for wear after he receives his commission in the Reserve Corps. He retains this uniform upon completion of the course.

PERSONNEL AND EQUIPMENT

The instruction in the Department of Military Science is conducted by a corps of five Regular Army officers selected by the War Department from the Infantry and Signal Corps and, in addition, selected non-commissioned officers of these branches, highly trained in their profession. A considerable amount of equipment has been provided by the Federal Government in order that instruction may be both complete and practical.

The University of Wisconsin ROTC Rifle Team has maintained a very high standard in the past. In 1928 it placed second in the Sixth Corps Area rifle competition and eleventh in the National Intercollegiate matches. The ROTC Rifle Team squad consists of the best shots in the corps. This squad receives training in rifle shooting for about five months during the school year. The team fires matches with all the leading schools and colleges in the United States.

The "Crack Squad" is a drill team composed of selected advanced course students; it competes with teams from other institutions and also appears in exhibition drills on occasions.

Scabbard and Blade is a national honorary fraternity of 75 chapters to which cadet officers are eligible for membership. Company A, First Regiment, was founded at this University in 1904.

COURSES OF INSTRUCTION

BASIC COURSES

1. FIRST-YEAR BASIC INFANTRY. Yr. The National Defense Act and the ROTC, military courtesy and discipline, military hygiene and first aid, drill and command, rifle marksmanship, scouting and patroling. Captain Fingarson.

2. FIRST-YEAR BASIC SIGNAL CORPS. Yr. The National Defense Act and the ROTC, military courtesy and discipline, military hygiene and first aid, drill and command, military telegraph, army organization, military telephones. Lieut. Meade.

21. SECOND-YEAR BASIC INFANTRY. Yr. Drill and command, musketry, automatic rifle, scouting and patroling, combat principles (rifle squad). Lieut. Rogers.

23. SECOND-YEAR BASIC SIGNAL CORPS. Yr. Drill and command, military telegraph, military telephones, radio sets, pistol and personal equipment. Lieut. Meade.

ADVANCED COURSES

131. FIRST-YEAR ADVANCED INFANTRY. Yr; 3 cr. Map reading and military sketching, drill and command, machine gun, 37mm. and 3″ mortar. Lieut. Burnett.

133. FIRST-YEAR ADVANCED SIGNAL CORPS. Yr; 3 cr. Military sketching and map-reading, drill and command, message center, codes and ciphers, communication engineering, tactical principles, and principles of signal communication. Lieut. Meade.

141. SECOND-YEAR ADVANCED INFANTRY. Yr; 3 cr. Military law and Officers' Reserve Corps regulations, military history and policy, administration, field engineering, drill and command, combat principles (rifle and machine-gun company and howitzer-company platoon). Maj. Fox.

143. SECOND-YEAR ADVANCED SIGNAL CORPS. Yr; 3 cr. Military law and Officers' Reserve Corps regulations, military history and policy, administration and supply, field engineering, drill and command, communication engineering, signal corps tactics. Lieut. Meade.

PART IX—ASSOCIATED SCIENTIFIC INSTITUTIONS

FOREST PRODUCTS LABORATORY
STATE LABORATORY OF HYGIENE
UNITED STATES WEATHER BUREAU
WASHBURN OBSERVATORY
WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY
STATE TOXICOLOGICAL LABORATORY
WISCONSIN PSYCHIATRIC INSTITUTE
STATE HISTORICAL SOCIETY
WISCONSIN ACADEMY OF SCIENCES, ARTS, AND LETTERS

FOREST PRODUCTS LABORATORY

C. P. WINSLOW, DIRECTOR

The Forest Products Laboratory is a scientific institution engaged in research for the Forest Service, United States Department of Agriculture, in cooperation with the University of Wisconsin. The final objective of the research activities of this organization is to secure maximum economy and efficiency in the production and utilization of forest products with a view to prolonging the present timber supply and encouraging the practice of forestry through greater financial returns. The staff of the laboratory cooperates with that of the University of Wisconsin in the courses of lectures and research 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 research on a commercial basis.

The technical investigations of the laboratory are as follows:

(1) Mechanical Properties of Wood. Investigations of strength, stiffness, hardness, and other mechanical properties of commercial woods; effect of treatments on strength; tests on fabricated materials and manufactured articles; the development of grading rules for structural timbers.

(2) Seasoning of Wood. Determination of best methods of air drying and kiln drying to eliminate losses; design and operation of dry kilns; studies of commercial kilns; physical properties of woods.

(3) Shipping Containers. Study of wooden and fiber shipping containers, with special reference to design and specifications to develop containers which will deliver the contents to the consumer in a satisfactory condition at a minimum total cost.

(4) Plywood, Glues, and Laminated Stock. Study of plywood manufacturing problems; strength and design of plywood; development and improvement of glues; study of new uses for laminated construction in commercial work.

(5) By-Products and Chemical Studies. Research on the methods of production and utilization of by-products, such as alcohol, turpentine, rosin, acetate, etc., obtained from various forms of wood and wood waste; and general wood chemistry.

(6) Wood Preservation. Research on fungi which attack structural timbers, with investigations aimed at practical means of prevention; the efficiency of various wood-preserving processes and preservatives.

(7) Pulp and Paper. The suitability of woods and other fibrous materials for pulp, paper, and fiber specialties; studies in the chemistry and engineering of pulping and paper-making processes; chemical and physical studies of pulps and papers.

(8) Silvicultural Relations. Identification of wood; the effect of growth conditions on the structure of wood; and the relation of the structure of wood to its properties.

(9) Technical Studies of Wood-Using Industries. Study of the economic utilization of wood with a view to eliminating waste; lumber grades and specifications; methods of measuring, manufacturing, and marketing logs, lumber and small dimension stock; development of efficient uses of wood.

The lectures and research are offered by the staff of the laboratory to both undergraduates and graduates. Several courses on various technical activities are given in the Extension Division, as announced on page 404.

STUDENT RESEARCH ASSISTANTSHIPS

Students who show unusual ability in research may be appointed as student research assistants in this laboratory by the Forest Service or by the Bureau of Plant Industry, in accordance with the regulations of the United States Civil Service Commission, at a salary not exceeding $40 per month. Application for these assistantships must be made to the director of the Forest Products Laboratory. The number of students thus appointed will largely depend upon the funds available and the number of suitable problems taken up by the laboratory for solution. Students may choose one of the problems as major or minor work for a thesis as part of the requirements for a higher degree.

LECTURE AND LABORATORY COURSES

These courses do not supply the needs of students desiring to take up the study of forestry as a profession. Such students should enter one of the regular forestry schools.

FORESTRY AND WOOD TECHNOLOGY

HARRY DONALD TIEMANN, M.E., M.F., *Lecturer in Forest Products*
FREDERICK LINCOLN BROWNE, Ph.D., *Lecturer in Forest Products*
ELOISE GERRY, Ph.D., *Lecturer in Forest Products*
ARTHUR KOEHLER, M.S., *Lecturer in Forest Products*
LORRAINE JOSEPH MARKWARDT, C.E., *Lecturer in Forest Products*
JOHN A. NEWLIN, B.S., *Lecturer in Forest Products*
CLARICE AUDREY RICHARDS, Ph.D., *Lecturer in Forest Products*
THOMAS ROY TRUAX, M.S., *Lecturer in Forest Products*

1. GENERAL FORESTRY. I; 2 cr. Open to all students with the exception of freshmen in Letters and Science. General introductory course. The first part is devoted to an outdoor study of trees and to lectures concerning their growth and the use of their products. The remainder of the course takes up the natural forest conditions of the United States, and the history of the development of a forest policy. There are no prerequisites to this course. 11 TT. Mr. Tiemann.

101. PROPERTIES OF WOOD. I; 2 cr. Open to all students. Relation of the structure of wood to its properties. Physical, mechanical, and chemical properties; pulping characteristics; gluing characteristics; relation of defects and fungi to wood properties. Prerequisite: Forestry 1. This course is of particular value to students in architecture, engineering, manual training, and agriculture, and to students desiring to go into the lumber or wood-using industries. May be preceded or followed by Course 102. Offered 1929–30 and in alternate years. 4:40 TT. Mr. Koehler and staff.

102. WOOD TECHNOLOGY. II; 2 cr. Open to all students. Includes a study of the structure of wood; identification of commercial species of wood. A logical sequence to course 101, but may be taken independently. Especially suited for students who expect to go into some wood-using business, or for students planning to take a course in forestry elsewhere. 11 TT. Mr. Tiemann.

119. DISEASES OF TIMBER. I; 2 cr. The course is designed to familiarize the student with the fungous defects in wood products. Opportunity is given to study the morphology of the causal organisms, their temperature and moisture relations, and methods of controlling them. The technic of sectioning and staining wood and isolating the causal organisms is included. Offered 1929–30 and in alternate years. Lect. and lab. 1:30–5:30 W. Miss Richards.

CHEMISTRY OF FOREST PRODUCTS

ERNEST BATEMAN, Ph.B., *Lecturer in Forest Products*
MARK WILDER BRAY, B.A., M.S., *Lecturer in Forest Products*
FREDERICK LINCOLN BROWNE, Ph.D., *Lecturer in Forest Products*
CARLETON EDGAR CURRAN, Ph.D., *Lecturer in Forest Products*
LEE FRED HAWLEY, Ph.D., *Lecturer in Forest Products*
GEORGE MCMONIES HUNT, B.S., *Lecturer in Forest Products*
CLARICE AUDREY RICHARDS, Ph.D., *Lecturer in Forest Products*
GEORGE JOSEPH RITTER, Ph.D., *Lecturer in Forest Products*
EARL CHARLES SHERRARD, Ph.D., *Lecturer in Forest Products*

103. INDUSTRIAL CHEMISTRY APPLIED TO FOREST PRODUCTS. II; 2 cr. Includes course of lectures descriptive of industrial chemical processes that use wood and wood waste, such as pulp and paper, wood distillation, and wood preservation, and the chemistry of various forest products. Prerequisites: Chemistry 120, 121. 4:30 TT. Mr. Hawley, Mr. Bateman, Mr. Sherrard, Mr. Ritter, Mr. Curran, Mr. Bray.

200. RESEARCH IN FOREST PRODUCTS CHEMISTRY. Yr; * cr.
Coal tars, wood tars, and wood preservatives. Mr. Bateman.
The production of ethyl alcohol from wood waste; carbohydrates and fermentation. Mr. Sherrard.
Wood distillation, wood extraction, and general wood chemistry. Mr. Hawley, Mr. Ritter.
The chemical action of bacteria and fungi on wood and pulp. Mr. Bray, Miss Richards.
Pulp and paper. Mr. Curran, Mr. Bray.
Wood preservation and glues. Mr. Hunt, Mr. Browne.

STATE LABORATORY OF HYGIENE

W. D. Stovall, Director, Professor of Hygiene

The State Laboratory of Hygiene, located in the Service Memorial Institutes Building on the university campus, is at once a university laboratory and the central laboratory for the State Board of Health. The staff is occupied in teaching, in the development of laboratory tests which are of assistance in the diagnosis and control of communicable diseases, in other laboratory procedures with which sanitary science is concerned, and in special investigation.

Last year 54,481 specimens for the diagnosis of diphtheria, typhoid fever, anthrax, rabies, tuberculosis, whooping cough, and other diseases were received from physicians, health officers, public health nurses, and others throughout the state. The facilities of the laboratory are used by three-fourths of the physicians in the state. Prophylactic vaccines are distributed free from the laboratory, and silver nitrate ampules are prepared for free distribution by the State Board of Health.

For the convenience of physicians and health officers, cooperative laboratories have been established in Beloit, Green Bay, Kenosha, Oshkosh, Rhinelander, Superior, and Wausau. The state contributes a portion of the funds required for the operation of each of these laboratories, and the respective cities supply the remainder. These branch laboratories are under the supervision of the director of the State Laboratory of Hygiene, acting for the State Board of Health.

The principal work of both the central and the branch laboratories is in the development and improvement of procedures and new methods for diagnosing, preventing, and controlling communicable diseases, and in the dissemination of information of this sort into every community of the state, thereby directly or indirectly touching the welfare of every citizen.

UNITED STATES WEATHER BUREAU

Eric R. Miller, Meteorologist in Charge

The University of Wisconsin has cooperated with the national weather services throughout its history. The first meteorological observations at Madison were made by Professors S. H. Carpenter and J. W. Sterling for the Smithsonian Institution from 1853 to 1864. The services of students were enlisted in the making of these observations, and the names of John Muir and James L. High and other distinguished alumni are found in the meteorological journals kept at Madison. The observations were revived in 1869 by Professor W. W. Daniells, the pioneer professor of agriculture at the University. The Signal Corps, U. S. Army, carried on the observations at Madison from October 1878 to April 1883. On the termination of this governmental office, its instruments were turned over to the Washburn Observatory where the observations were continued until December 1904.

The demands of the public for weather information had become too heavy to be met by the astronomical observatory, so that in September 1904 a branch of the national weather bureau was again established at Madison, in North Hall, where the original observations had been begun 51 years earlier.

This office is fully equipped with standard apparatus, and receives telegraphic reports twice daily. Daily forecasts and weather bulletins are distributed to the press and, to aviators, and are mailed to the public in central and southwestern Wisconsin. The office is open to the public from 9 a. m. to 4 p. m. daily, except Sundays and holidays.

WASHBURN OBSERVATORY

JOEL STEBBINS, DIRECTOR, PROFESSOR OF ASTRONOMY

The Washburn Observatory was established in the year 1878 through the munificence of the late Governor Cadwallader C. Washburn. Although its obligations and opportunities as a branch of a teaching university have not been ignored, the energies of its staff from the beginning have been directed mainly to astronomical research. Among the lines of research cultivated are the measurement of the positions and motions of the heavenly bodies, the discovery and measurement of double stars, with investigations of their orbits, the study of changes of latitude and the amount and character of the atmospheric refraction, the determination of the amount of the aberration of light, problems of stellar-color, proper motions of faint stars, a systematic investigation of the parallaxes of all accessible stars which have large proper motions, and the photo-electric photometry of variable stars.

The principal instrument of the observatory is a refracting telescope of 15.6 inches aperture, constructed by Alvan Clark & Sons, and provided with a micrometer, a spectroscope, and a photo-electric photometer. The meridian circle by A. Repsold & Sons has a Clark objective with an aperture of five inches. There are also a sidereal clock by Hohwü, two mean clocks by Howard, and chronographs by Fauth and Gaertner. The clocks are compared daily with the radio time signals from Washington.

In the student observatory are a ten-inch refractor with a modern mounting, and a three-inch transit instrument of the broken-telescope type by Bamberg. These instruments, while primarily intended for instruction, are well adapted to and are employed for certain classes of original work. The observatory also possesses a considerable number of subsidiary instruments, such as portable telescopes, photometers, chronometers, sextants, engineers' transits, an altazimuth, a universal instrument, a personal equation machine, calculating machines, 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 fifteen volumes, representing the more important work done, have been issued.

Students of sufficient technical attainment 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 page 122.

WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY

E. F. BEAN, DIRECTOR OF SURVEY AND STATE GEOLOGIST

This Survey has always been closely associated with the University, alike in its inception and operation. Its origin dates from a motion offered by Dr. C. R. Van Hise to the Wisconsin Academy of Sciences in 1893, calling for the appointment of a committee to secure legislation establishing such a survey. The committee, with Dr. Van Hise as chairman, took up the task and finally secured the establishment of the Survey by the legislature

of 1897. The president of the University has regularly been the president of the commissioners of the Survey and Dean E. A. Birge was its director from the beginning until 1919, when, as president of the University, he became one of the commissioners. The offices and laboratories of the Survey are in university buildings.

The Survey was at first organized in two divisions—Geology and Natural History; the Legislature of 1909 added a third division by establishing a Soil Survey of the state. From the first much attention was given to highways and a Highway Division was organized in 1907; active work in this field was carried on until 1911, when the legislature created the Highway Commission and made the State Geologist one of its members.

The Geology Division was in charge of Dr. W. O. Hotchkiss from 1906 to 1925; since that date Mr. E. F. Bean has been State Geologist. This is the largest division of the Survey and has issued numerous maps and reports on the general and economic geology of the state. It has investigated also such subjects as water power, underground waters, peat, and clays. At present, work is being done on the Keeweenawan rocks of northern Wisconsin, where copper is the chief mineral possibility. Careful surveys are made of materials available for road construction, with a success which has been worth to the state many hundreds of thousands of dollars annually. The study of underground waters has made the Survey an authority on the supply of water from artesian wells. Topographic maps of the state which are necessary for all engineering undertakings, are being made in cooperation with the United States Geological Survey. The geography and physical geography of the state have been studied, and numerous bulletins have shown the connection between the geological and the social history of the several regions of Wisconsin.

The Soils Division is carrying on a survey which will result in a complete soil map of the state. The work, which is in charge of Professor A. R. Whitson, is done in cooperation with the United States Department of Agriculture and the College of Agriculture of the University. Soils are studied with reference to their best agricultural use and the fertilizer and other treatment necessary to make them most productive, including a study of the limestones, marls, and by-products from manufacturing plants available as a source of lime. Special attention is given the adaptability of particular soils to special crops such as potatoes, tobacco, and canning crops. Numerous maps and bulletins showing the nature and distribution of the types of soils and their agricultural uses have been published. A reconnaissance survey of the northern part of the state has been completed and detailed county surveys covering a large part of the southern half of the state have been made. A general map and report on the soils of the state was published in 1927.

The Natural History Division is in immediate charge of Dr. Birge, President-Emeritus of the University. It has issued numerous bulletins on specific topics relating to the botany and zoology of the state. Its main continuous work has been on the inland lakes. Many hydrographic maps have been made, as well as studies of the temperatures of the lakes, the chemical composition of their waters, and the plants and animals inhabiting them. The main problem to which all these studies lead is that of the nature and quantity of the fundamental food supply of the lakes, its variation with season and year, and the resulting economic value of the lakes.

During the summer months the Survey employs university students as assistants in field work. This arrangement enables students to gain practical experience during their university careers. The close cooperative relationship existing between the University and the Survey is very valuable to both.

STATE TOXICOLOGICAL LABORATORY

R. P. HERWICK, ACTING STATE TOXICOLOGIST

The office of state toxicologist was established in 1923 by act of the Legislature. In many instances prior to the establishment of this office, cases of apparent criminal poisoning were not investigated because of the inability of the county to employ trained and competent experts. The high cost of such assistance was sufficient to make it almost prohibitive for some of the less densely populated counties. To prevent miscarriage of justice in such instances, and to render expert assistance available to all district attorneys, the legislature created this office.

The chief function of the State Toxicologist is to assist the district attorneys in the detection of criminal poisoning. There are also other ways in which this office assists in protecting the people of Wisconsin.

This office has been of aid to various state departments, such as the State Department of Agriculture in connection with the poisoning of stock and other domestic animals; the State Industrial Commission in connection with cases of suspected industrial poisoning; the State Conservation Commission in the detection of poisoning of wild game; and the State Board of Health in cases of food poisoning. In general, it is the duty of the State Toxicologist to protect the people of the state from criminal or accidental poisoning, so far as he is able. The State Toxicologist also assists the staff of the Wisconsin General Hospital in the diagnosis and treatment of cases of poisoning.

The laboratory of the State Toxicologist is located in the Service Memorial Institutes Building in conjunction with the laboratories of the Department of Pharmacology of the Medical School.

WISCONSIN PSYCHIATRIC INSTITUTE

W. F. LORENZ, DIRECTOR, PROFESSOR OF NEUROPSYCHIATRY

The Wisconsin Psychiatric Institute was originally developed under the Board of Control of the state of Wisconsin. It was started in 1915 at Mendota, but on July 1, 1925, was transferred by legislative act to the University. Its principal purpose is to investigate causes of insanity and allied conditions which directly or indirectly result in state care and, in addition, to initiate and promote measures of relief and prevention when practically possible.

As the result of an investigation started in 1915, syphilis was found to be a large single factor in causing both insanity and mental enfeeblement in the state of Wisconsin. In an effort to meet this situation in a practical way, an attempt was made to assist the physicians throughout the state to recognize and thoroughly treat syphilis with the hope of preventing the late consequences of this disease. A blood-examining service was instituted and made available, without cost, to physicians of Wisconsin. Since 1915, over 365,500 individual tests have been made for practicing physicians of Wisconsin. This number does not include the service that has been rendered to state institutions; with this number added the total exceeds 600,000. The result of this effort accounts, in great measure, for the reduction of paresis in Wisconsin. This is shown by the admission rate to state hospitals, for while in 1915, and previously, the admission rate for this form of insanity was over 12%, since 1924 it has continued at less than 6%.

In addition, cerebro-spinal fluid is examined without charge for practicing physicians of Wisconsin, and more recently, a chemical blood examination has been added as a service to physicians. This latter effort was made possible as the result of an extensive investigation from which was developed a blood preservative that permits shipment of this material by mail without deterioration.

All the laboratory work combined makes available to practicing physicians highly specialized laboratory procedures which are valuable aids to him in recognizing and treating diseases and, incidentally, because the effort is centralized, it promotes technical efficiency and is most economical.

The Institute also serves the State Board of Control as a special institution for the investigation of medical and medico-social problems arising in the administration of the state charitable and penal institutions. The Director of the Institute serves as a medical consultant to the Board of Control.

The medical personnel of the Institute comprises the staff of the Department of Neuropsychiatry in the medical school of the University. Its four members administer this department in the State of Wisconsin General Hospital and teach nervous and mental diseases to medical students. For this purpose it has available 40 beds in the Bradley Memorial Hospital. During the year ending July, 1929, there were admitted 497 new cases and 80 re-admissions covering a wide range of cases and including practically every known variety of mental and nervous disorder. The psychiatric cases constitute about one-third of the admissions. The neurological cases afford ample material for study of central nervous system syphilis, including a large group of congenital cases, encephalitis (45 cases 1928–29), brain tumor (15 cases), and among the less common disorders, pellagra, Huntington's chorea, myasthenia gravis, and the neuritic form of progressive muscular atrophy. Owing to the practice of bedside instruction which each medical student gets, this volume and variety offers an unusual opportunity for clinical instruction. It also provides that which few general hospitals offer,—training in this specialty for nurses, internes, and resident physicians.

A service which this department affords the community is developing into unusual proportions. Through the outpatient department there has been an increasing demand for guidance in cases of conduct disorder. From the criminal and juvenile courts, the Juvenile Protective Association, the Public Welfare Association, the Children's Home Finding Society, the Public Health Nursing Association are referred many behavior problems. This service is being extended to other communities outside of Madison.

In cooperation with the Student Health Service of the University many students are examined and advised. This consultation service, in not only psychiatry but in neurology also, is extended to all departments of the State of Wisconsin General Hospital.

The wealth of material in nervous and mental diseases offers many problems for research, and definite contributions have been made, particularly in the field of therapy.

STATE HISTORICAL SOCIETY

JOSEPH SCHAFER, Ph.D., SUPERINTENDENT

This Society, organized in the early part of 1849, in the course of its more than eighty years of activity, has attained an enviable position among the educational institutions of the state and nation. The Society maintains on the campus of the University the State Historical Library containing 255,000 volumes and 275,000 pamphlets; also the Historical Museum on the fourth floor of the library building; and an active research and publications staff dealing with Wisconsin history. Its publications include the *Wisconsin Magazine of History*, a quarterly now in its thirteenth volume; *Wisconsin Historical Collections*, of which thirty volumes have been issued in addition to a general index of volumes I–XX; the *Proceedings*, separate annual publications containing reports with occasional historical papers; *Bulletins of Information* numbers 1–97; *The Calendar Series* of which three volumes of calendars of the Draper papers have been published; *An Economic History of Wisconsin* by Frederick Merk; *The Wisconsin Domesday Book, General Series*, Volumes I and II, and *Town Studies*, Volume I; *Wisconsin History Series, The French Regime in Wisconsin and the Northwest*, Kellogg; *Wisconsin's Gold Star List*, Gregory; *The Intimate Letters of Carl Schurz; Carl Schurz, Militant Liberal* (biography), Schafer.

The State Historical Library is unequaled in the field of Western history and has one of the most important newspaper and periodical collections in the United States. In local history, biography, American travels, etc., it is exceptionally well equipped. The printed colonial records and government documents, state and federal, are equally satisfactory. For the study of upland Virginia, North and South Carolina, and Georgia, as well as Kentucky and Tennessee and the old Northwest, in the Colonial and Revolutionary period, the Draper manuscripts in this library are the richest collection extant. Resources for the study of the slavery question and the Civil War are notable and there is a vast amount of manuscript material on Western economic history, particularly the trade in lumber and furs.

For English history and government, the library has ample sets of official publications, including the Rolls Series, the Calendars of State Papers, the Blue Books, the reports of the Historical Manuscripts Commission, and other reports of the Records Commission; also the parliamentary proceedings, and the publications of many historical societies. For the study of Dutch history and institutions the Tank collection offers special resources.

This library contains one of the three greatest collections of newspapers in the United States and it has the fullest files of labor papers to be found anywhere in the country. It is the custodian of the extensive collection of labor and employers' papers, convention proceedings, agreements, etc., secured through the American Bureau of Industrial Research. Transcripts of unique manuscript material are constantly being added to this collection. Mr. William E. Walling, of Chicago, has presented important collections of books, papers, and pamphlets dealing with modern European socialism and social problems. Special attention is called to the Schlueter collection of books, papers, and manuscripts, acquired from Mr. Herman Schlueter, of New York City. It is one of the richest collections in existence relating to the early history of socialistic movements in Germany and certain phases of similar movements in the United States and other countries, and is said to contain documents that cannot be found even in the archives of the Social Democratic party in Germany. It is indispensable for any exhaustive scientific work in this field.

WISCONSIN ACADEMY OF SCIENCES, ARTS, AND LETTERS

CHANCEY JUDAY, SECRETARY, LECTURER IN ZOOLOGY

The act incorporating the Wisconsin Academy of Sciences, Arts, and Letters was approved by the State Legislature on March 16, 1870. The charter states that the general objects shall be to encourage investigation and to disseminate correct views in the various departments of science, literature, and the arts.

Among the various special objects mentioned in the charter and in the constitution of the Academy are the publication of the results of investigations and the formation of a library. The former object is attained through a regular publication known as the Transactions; in the sixty years of its existence the Academy has published thirty-one volumes of its Transactions. This publication is sent to all active members gratis, and it is also sent to similar societies in all parts of the world in exchange for the publications issued by them; in this manner a large, valuable, and rapidly growing library has been secured. This library is deposited in the university library and its books are loaned on the same terms as those of the latter.

Throughout its existence the Academy has been closely associated with the University in various ways. Several of the leading charter members belonged to the university faculty and a large percentage of the past and present active members have come from the faculty of the University. Nine of the twenty individuals who have served as presidents of the Academy were members of the university faculty at the time of their election.

Meetings are held annually, ordinarily during the spring recess of the University. The Academy is affiliated with the American Association for the Advancement of Science.

MUSEUMS

The museums of the University are principally illustrative collections for use in connection with the work of instruction in the various departments. Worthy of special mention are the collection of chemical products; the extensive drug collection of the Pharmacy Department; the herbarium, containing a rich array of Wisconsin flowering plants, fleshy fungi, and mosses; the geological museum, containing very extensive collections of minerals, rocks, ores, and fossils, including thin sections; and the valuable collections of the Department of Art History and Criticism, which embraces a series of prints illustrating the development of the graphic arts and a very large number of facsimile and photographic reproducts of paintings and drawings by artists of all periods.

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 museum of the Historical Society contains a number of modern pictures of merit, a collection of Piranesi etchings of classical ruins, and a number of good prints and reproductions valuable for study.

PART X—STATISTICAL TABLES

DEGREES ACCORDING TO COURSES

	1854–1929	1929
NUMBER OF FIRST DEGREES GRANTED 1854–1929	26,928	1,382
PRESENT COURSES		
General Course, B. A., 1904–1929	9,358	630
Course in Commerce, B. A., 1904–1929	1,799	82
Course in Journalism, B. A., 1914–1929	496	36
Course in Humanities, B. A., 1922–1929	47	4
Normal Course, Ph. B., 1898–1929	1,001	47
General Course, Ph. B., 1917–1929	452	76
Chemistry Course, B. S., 1909–1929	325	20
Chemistry-Commerce Course, B. S., 1927–1929	12	3
Physical Education Course, B. S., 1920–1929	229	38
Applied Arts.Course, B. S., 1922–1929	168	42
Industrial Education Course, B. S., 1922–1929	57	6
Medical Science Course, B. S., 1909–1929	623	47
Hygiene Course, B. S., 1927–1929	7	4
Four-Year Pharmacy Course, B. S., 1895–1929	140	5
Three-Year Pharmacy Course, Ph. G., 1884–1929	483	5
Music Course, B. M., 1917–1929	161	23
Four-Year Course in Agriculture, B. S., 1878–1929	1,558	50
Home Economics Course, B. S., 1909–1929	964	67
Two-Year Course in Agriculture, Ag. G., 1910–1929	238*	3*
Law Course, LL.B., 1869–1929	2,579	57
Civil Engineering Course, B. S., 1876–1929	1,053	44
Mechanical Engineering Course, B. S., 1876–1929	876	28
Electrical Engineering Course, B. S., 1892–1929	1,173	44
Chemical Engineering Course, B. S., 1903–1929	371	16
Mining Engineering Course, B. S., 1910–1929	131	8
COURSES DISCONTINUED		
Ancient Classical Course, B. A., 1854–1903	470	
Modern Classical Course, B. L., 1886–1903	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	
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	96	
Manual Arts Course, B. S., 1921	2	
Two-Year Course in Home Economics, Ag. G., 1920–1922	8*	
Two-Year Course for Supervisors of Music, 1910–1925	173*	
Three-Year Course for Supervisors of Music, 1925	4*	
NUMBER OF HIGHER DEGREES GRANTED IN COURSE 1875–1929	6,142	514
Master of Arts, M. A., 1879–1929	2,729	201
Master of Letters, M. L., 1879–1903	97	
Master of Science, M. S., 1879–1929	1,303	88
Master of Science, Engineering, M. S., 1922–1929	113	14
Engineer, 1879–1929	416	10
Master of Agriculture, M. Agr., 1893	1	
Master of Pharmacy, M. Phar., 1903	1	
Master of Philosophy, M. Ph., 1879–1929	232	33
Master of Public Health, M. P. H., 1915–1916	4	
Doctor of Public Health, D. P. H., 1912–1915	2	
Doctor of Philosophy, Ph. D., 1892–1929	1,150	126
Doctor of Medicine, M. D., 1927–1929	94	42

KINDS OF DEGREES

NUMBER OF FIRST DEGREES GRANTED, 1854–1929		26,928
Bachelor of Arts, 1854–1929	12,170	
Bachelor of Philosophy, 1898–1929	1,453	
Bachelor of Letters, 1876–1903	1,398	
Bachelor of Science, 1873–1929	8,509	
Bachelor of Metallurgical Engineering, 1876–1896	16	
Bachelor of Laws, 1869–1929	2,579	
Bachelor of Music, 1917–1929	161	
Graduate in Music, 1896–1916	134	
Normal Course, 1865–1868	25	
Graduate in Pharmacy, 1884–1929	483	
Graduate in Agriculture (Two-Year Course) 1910–1929	246*	
Music Supervisor, 1910–1925	177*	
NUMBER OF HIGHER DEGREES GRANTED IN COURSE, 1875–1929		6,142
Masters, 1879–1929	4,480	
Engineer, 1879–1929	416	
Doctor of Public Health, 1912–1915	2	
Doctor of Philosophy, 1892–1929	1,150	
Doctor of Medicine, 1927–1929	94	
GRAND TOTAL OF FIRST AND HIGHER DEGREES GRANTED 1854–1929		33,070

HONORARY DEGREES

	1854-1929	1929
Doctor of Letters	14	3
Doctor of Laws	123	2
Doctor of Literature	4	
Doctor of Science	23	
Doctor of Philosophy	4	
Doctor of Medicine	1	
Master of Arts	32	1
Master of Science	1	
Civil Engineer	4	
Mechanical Engineer	2	
Bachelor of Arts	1	
Bachelor of Laws	2	
Bachelor of Mechanical Engineering	1	
	212	6

*Not included in totals because not considered as degrees.

SUMMER SESSION 1929

	GRADUATES												UNDER-GRADUATES			GRAND TOTAL		
	Six-Week Session			Nine-Week Session			Not Registered in Graduate School			Total Graduates								
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Letters and Science*	408	427	835	270	135	405	217	391	608	895	953	1,848	874	1,893	2,767	1,769	2,846	4,615
Engineering	3	0	3	0	0	0	5	0	5	8	0	8	208	0	208	216	0	216
Agriculture	33	35	68	16	3	19	4	33	37	53	71	124	35	92	127	88	163	251
Law													137	3	140	137	3	140
GRAND TOTAL	444	462	906	286	138	424	226	424	650	956	1,024	1,980	1,254	1,988	3,242	2,210	3,012	5,222
Deducting students in attendance during the regular year:																		
Letters and Science*	92	35	127	89	22	111	19	7	26	200	64	264	392	338	730	592	402	994
Engineering	0	0	0	0	0	0	0	0	0	0	0	0	152	0	152	152	0	152
Agriculture	16	3	19	4	0	4	2	3	5	22	6	28	24	41	65	46	47	93
Law													62	0	62	62	0	62
Total Deducted	108	38	146	93	22	115	21	10	31	222	70	292	630	379	1,009	852	449	1,301
NET TOTAL	336	424	760	193	116	309	205	414	619	734	954	1,688	624	1,609	2,233	1,358	2,563	3,921

* Includes Medicine and Music. There was no session of the Library School in 1929.

SUMMARY OF STUDENTS BY ACADEMIC

	Men	Women	Total	Men	Women	Total
GRADUATE SCHOOL		Fellows			Scholars	
1. Letters and Science	44	14	58	30	9	39
2. Engineering	7	0	7	0	0	0
3. Agriculture[a]	34	7	41	5	0	5
4. Total, 1–3 incl.	85	21	106	35	9	44
PROFESSIONAL SCHOOLS	Fourth Year			Third Year		
5. Law				114	2	116
6. Medicine	35	4	39	44	4	48
UNDERGRADUATES	Seniors			Juniors		
COLLEGE OF LETTERS AND SCIENCE COURSES						
7. General Course B. A.	422	470	892	383	500	883
8. General Course Ph. B.	83	17	100	121	14	135
9. Chemistry Course	31	1	32	34	7	41
10. Chemistry-Commerce Course	10	1	11	8	2	10
11. Course in Humanities	5	7	12	8	5	13
12. Hygiene Course	0	14	14	0	4	4
13. Normal Course	2	23	25	1	12	13
14. Pharmacy—3 yr. course	0	0	0	19	0	19
15. Pharmacy—4 yr. course	14	1	15	5	0	5
16. Premedical Course	17	1	18	107	7	114
17. Experimental College	0	0	0	0	0	0
SCHOOLS						
18. Commerce	120	13	133	119	13	132
Education[c]						
19. Applied Arts	12	33	45	12	27	39
20. Industrial Education	6	0	6	4	0	4
21. Physical Education	30	34	64	17	32	49
22. Journalism	29	30	59	42	40	82
23. Music	3	31	34	8	24	32
24. Total, 7–23 incl.	784	676	1,460	888	687	1,575
COLLEGE OF ENGINEERING						
COLLEGE OF ENGINEERING						
25. Chemical Engineering	24	0	24	26	0	26
26. Civil Engineering	60	0	60	61	0	61
27. Electrical Engineering	70	0	70	76	0	76
28. Mechanical Engineering	43	0	43	59	0	59
29. Mining Engineering	5	0	5	5	0	5
30. Total, 25–29	202	0	202	227	0	227
COLLEGE OF AGRICULTURE						
31. Long Course	74	0	74	62	4	66
32. Middle Course	0	0	0	0	0	0
33. Home Economics	0	92	92	0	77	77
34. Total, 31–33	74	92	166	62	81	143
SCHOOL OF NURSING						
35. Hygiene Course	*0*	*14*	*14*	*0*	*4*	*4*
36. Graduate Nurse	0	0	0	0	24	24
37. Total, 35–36	0	14	14	0	28	28
38. LIBRARY SCHOOL	0	*13*	*13*	0	0	0
39. Total Undergraduates (24, 30, 34, 36, 38)	1,060	768	1,828	1,177	792	1,969
40. GRAND TOTAL—Graduates, Undergraduates, and Professional (4, 5, 6, 39)						
41. TWICE COUNTED (See page 444)						
42. NET GRAND TOTAL—Graduates, Undergraduates, and Professional. (40 minus 41)						

(a) Two Home Economics fellows and eighteen Home Economics graduates.
(b) Includes two third-year specials, one second-year special, and one first-year special.
(c) See table on page 443 for total enrolment in the School of Education.

CLASSES, COURSES, AND SEX

YEAR 1929–30

Men	Women	Total	Men	Women	Total	Totals Men	Totals Women	Totals Total	Item
Graduates									
541	318	859				615	341	956	1
42	0	42				49	0	49	2
130	28	158				169	35	204	3
713	346	1,059				833	376	1,209	4
Second Year			First Year						
121	7	128	68	4	72	307[b]	13	320	5
90	11	101	116	3	119	285	22	307	6
Sophomores			Freshmen						
491	537	1,028	691	593	1,284	1,991	2,106	4,097[d]	7
92	14	106	130	15	145	428	60	488[d]	8
29	4	33	32	7	39	126	19	145	9
12	1	13	16	0	16	46	4	50	10
3	11	14	3	15	18	19	38	57	11
0	6	6	0	9	9	0	33	33	12
0	2	2	0	0	0	3	37	40	13
17	4	21	19	2	21	55	6	61	14
4	1	5	10	1	11	33	3	36	15
125	6	131	137	13	150	387	27	414[d]	16
76	0	76	79	0	79	155	0	155	17
0	0	0	0	0	0	239	26	265	18
15	40	55	20	51	71	59	152	211[d]	19
3	0	3	0	0	0	13	0	13	20
40	39	79	47	48	95	134	154	288[d]	21
0	0	0	0	0	0	71	70	141	22
7	36	43	8	33	41	33	144	177[d]	23
914	701	1,615	1,192	787	1,979	3,792	2,879	6,671[d]	24
43	0	43	64	0	64	158	0	158[d]	25
79	0	79	91	1	92	291	1	292	26
82	1	83	98	0	98	326	1	327	27
62	0	62	113	0	113	278	0	278[d]	28
11	0	11	10	0	10	31	0	31	29
277	1	278	376	1	377	1,084	2	1,086[d]	30
61	0	61	87	4	91	286	8	294[d]	31
3	0	3	4	0	4	7	0	7	32
0	77	77	0	75	75	0	322	322[d]	33
64	77	141	91	79	170	293	330	623[d]	34
0	*6*	*6*	*0*	*9*	*9*	*0*	*33*	*33*[f]	*35*
0	28	28	0	40	40	0	92	92	36
0	34	34	0	49	49	0	125	125[f]	37
0	0	0	0	0	0	0	41	41[e]	38
1,255	807	2,062	1,659	907	2,566	5,169	3,331	8,500[de]	39
						6,594	3,742	10,336	40
						241	18	259	41
						6,353	3,724	10,077	42

(d) Includes adult specials not itemized except on special table, page 445.
(e) Includes unclassified students not itemized except on special table, page 445.
(f) Figures in italics are not carried into totals because already included in Letters and Science.

ADDITIONAL ENROLMENT—COLLEGE OF AGRICULTURE

	Men	Women	Total
Short Course			
Second Year	68	0	68
First Year	73	0	73
Total	141	0	141
Deducting those in attendance during the regular year	1	0	1
Net Total	140	0	140
Winter Dairy Course	54	0	54
Net Total, Short and Dairy Courses	194	0	194

NET ENROLMENT—REGULAR YEAR, SUMMER SESSION, AND DAIRY COURSES

	Men	Women	Total
Regular Year	6,353	3,724	10,077
Summer Session	1,358	2,563	3,921
Short and Dairy Courses	194	0	194
GRAND NET TOTAL, Excluding Extension Students	7,905	6,287	14,192

EXTENSION DIVISION (Extra-Mural College)

	Men	Women	Total
Correspondence Study Department	5,361	3,716	9,077*
Extension Classes	4,928	3,161	8,089
Milwaukee Center (resident students)	410	109	519

* This total enrollment comprises those who have enrolled for correspondence instruction within the fiscal year up to May 1, 1930, and also those carried over who had enrolled prior to July 1, 1929, 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 year.

SCHOOL OF EDUCATION, 1929–30

	Men	Women	Total
TEACHERS' CERTIFICATES			
GRADUATES			
L S Fellows	2	0	2
L S Scholars	1	0	1
L S Graduates	63	66	129
Ag. Graduates (*2 are Home Economics Graduates)	2	3*	5
SENIORS	68	69	137
General Course, B. A.	44	239	283
General Course, Ph. B.	20	3	23
Chemistry Course	2	0	2
Course in Humanities	1	4	5
Normal Course	1	10	11
School of Commerce	2	0	2
School of Journalism	1	2	3
School of Music	3	24	27
	74	282	356
Agriculture	19	0	19
Home Economics	0	46	46
	19	46	65
JUNIORS			
General Course, B. A.	31	194	225
General Course, Ph. B.	6	4	10
Course in Humanities	1	3	4
Hygiene Course	0	1	1
Normal Course	0	6	6
Pharmacy III	1	0	1
Premedical Courses	1	0	1
School of Commerce	3	1	4
School of Journalism	1	2	3
School of Music	2	14	16
	46	225	271
Agriculture	9	0	9
Home Economics	0	27	27
	9	27	36
Electrical Engineering	1	0	1
SOPHOMORES			
General Course, B. A.	1	11	12
General Course, Ph. B.	0	1	1
Music	0	1	1
	1	13	14
TOTAL, Teachers' Certificates	218	662	880
COURSES			
Applied Arts	59	152	211
Industrial Education	13	0	13
Physical Education	134	154	288
TOTAL, School of Education	424	968	1,392

TWICE COUNTED STUDENTS, 1929–30

The item of 259 students twice counted occurs because of double classification as follows:

	Men		Women		Total	
Law sp 1 and L S 4	1		0		1	
Law 1 and L S 4	24		0		24	
Law 1 and Gen C 4	5		0		5	
Law 1 and S C 4	3		0		3	
Law 1 and S J 4	0		1		1	
Law 1 and C E 4	1		0		1	
Law 1 and L S Grad	4		0		4	
Law 1 and L S Fellow	0		1		1	
Law 2 and L S 3	3		0		3	
Law 2 and L S 4	6		0		6	
Law 2 Gen C 4	2		0		2	
Law 2 and L S Grad	3		0		3	
Law Sp 3 and L S 2	1		0		1	
Law 3 and L S 4	4		0		4	
Law 3 and Gen C 4	1		0		1	
Law 3 and L S Grad	1		0		1	
		59		2		61
Med 1 and L S 3	27		0		27	
Med 1 and L S 4	65		0		65	
Med 1 and L S Grad	9		1		10	
Med 1 and L S Scholar	1		0		1	
Med 1 and L S Fellow	1		0		1	
Med 2 and L S 4	67		4		71	
Med 2 and L S Grad	11		5		16	
Med 3 and L S 4	1		0		1	
Med 3 and L S Grad	0		1		1	
		182		11		193
Grad N 1 and L S Grad	0		2		2	
Grad N 1 and H Ec 4	0		2		2	
Grad N 2 and H Ec 4	0		1		1	
		0		5		5
Total, Twice Counted		241		18		259

SPECIAL STUDENTS, 1929–30

	UNCLASSIFIED			ADULT SPECIALS											
				3rd Year			2nd Year			1st Year			Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
College of Letters and Science															
General Course, B. A.				0	2	2	0	1	1	4	3	7	4	6	10
General Course, Ph. B.				0	0	0	2	0	2	0	0	0	2	0	2
Premedical Courses				0	0	0	0	0	0	1	0	1	1	0	1
Applied Arts				0	0	0	0	1	1	0	0	0	0	1	1
Physical Education				0	0	0	0	0	0	0	1	1	0	1	1
Music	6	20	26	0	0	0	1	0	1	0	0	0	1	0	1
Library School	0	28	28												
College of Agriculture															
Long Course				0	0	0	0	0	0	2	0	2	2	0	2
Home Economics				0	0	0	0	1	1	0	0	0	0	1	1
College of Engineering															
Chemical Engineering				0	0	0	0	0	0	1	0	1	1	0	1
Mechanical Engineering				0	0	0	0	0	0	1	0	1	1	0	1
Totals	6	48	54	0	2	2	3	3	6	9	4	13	12	9	21

SUMMARY OF STUDENTS BY STATES, FOREIGN COUNTRIES, AND SEX

Regular Year, Summer Session Only, and Short and Dairy Courses

	Total Different Students			Regular Year 1929–30			Summer Session 1929			Short and Dairy Courses 1929–30			
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Item
1. Alabama	11	12	23	6	7	13	5	5	10	0	0	0	1
2. Arizona	4	3	7	4	1	5	0	2	2	0	0	0	2
3. Arkansas	10	9	19	3	3	6	7	6	13	0	0	0	3
4. California	18	33	51	14	20	34	4	13	17	0	0	0	4
5. Colorado	9	15	24	8	5	13	1	10	11	0	0	0	5
6. Connecticut	18	8	26	12	6	18	6	2	8	0	0	0	6
7. Delaware	1	0	1	1	0	1	0	0	0	0	0	0	7
8. District of Columbia	6	39	45	4	8	12	2	31	33	0	0	0	8
9. Florida	11	11	22	7	4	11	4	7	11	0	0	0	9
10. Georgia	5	13	18	2	7	9	3	6	9	0	0	0	10
11. Idaho	6	3	9	4	3	7	2	0	2	0	0	0	11
12. Illinois	787	870	1,657	607	440	1,047	175	430	605	5	0	5	12
13. Indiana	170	229	399	88	89	177	82	140	222	0	0	0	13
14. Iowa	102	125	227	68	56	124	34	69	103	0	0	0	14
15. Kansas	48	69	117	25	21	46	23	48	71	0	0	0	15
16. Kentucky	20	25	45	15	8	23	4	17	21	1	0	1	16
17. Louisiana	16	21	37	3	2	5	13	19	32	0	0	0	17
18. Maine	4	0	4	3	0	3	1	0	1	0	0	0	18
19. Maryland	6	18	24	5	7	12	1	11	12	0	0	0	19
20. Massachusetts	25	28	53	18	20	38	7	8	15	0	0	0	20
21. Michigan	94	213	307	62	88	150	32	125	157	0	0	0	21
22. Minnesota	106	113	219	72	51	123	34	62	96	0	0	0	22
23. Mississippi	10	13	23	6	4	10	4	9	13	0	0	0	23
24. Missouri	97	170	267	49	38	87	48	132	180	0	0	0	24
25. Montana	21	15	36	14	13	27	7	2	9	0	0	0	25
26. Nebraska	38	58	96	30	22	52	8	36	44	0	0	0	26
27. Nevada	0	2	2	0	1	1	0	1	1	0	0	0	27
28. New Hampshire	4	10	14	3	4	7	1	6	7	0	0	0	28
29. New Jersey	37	44	81	35	23	58	2	21	23	0	0	0	29
30. New Mexico	2	3	5	1	1	2	1	2	3	0	0	0	30
31. New York	176	184	360	149	119	268	27	65	92	0	0	0	31
32. North Carolina	15	6	21	4	1	5	11	5	16	0	0	0	32
33. North Dakota	17	25	42	11	12	23	6	13	19	0	0	0	33
34. Ohio	205	247	452	103	113	216	100	134	234	2	0	2	34
35. Oklahoma	27	33	60	16	13	29	11	20	31	0	0	0	35
36. Oregon	15	8	23	10	3	13	5	5	10	0	0	0	36
37. Pennsylvania	76	153	229	45	61	106	30	92	122	1	0	1	37
38. Rhode Island	5	2	7	3	2	5	2	0	2	0	0	0	38
39. South Carolina	13	2	15	5	2	7	8	0	8	0	0	0	39
40. South Dakota	35	42	77	23	18	41	12	24	36	0	0	0	40

41.	Tennessee	15	26	41	11	10	21	4	16	20	0	0	0	41
42.	Texas	28	57	85	13	19	32	15	38	53	0	0	0	42
43.	Utah	10	2	12	6	0	6	4	2	6	0	0	0	43
44.	Vermont	2	0	2	2	0	2	0	0	0	0	0	0	44
45.	Virginia	9	7	16	6	1	7	3	6	9	0	0	0	45
46.	Washington	7	8	15	5	1	6	2	7	9	0	0	0	46
47.	West Virginia	10	23	33	5	5	10	5	18	23	0	0	0	47
48.	Wisconsin	5,399	3,265	8,664	4,639	2,375	7,014	578	890	1,468	182	0	182	48
49.	Wyoming	2	2	4	2	1	3	0	1	1	0	0	0	49
50.	Total, United States	7,752	6,264	14,016	6,227	3,708	9,935	1,334	2,556	3,890	191	0	191	50
1.	Argentina	3	0	3	3	0	3	0	0	0	0	0	0	1
2.	Australia	1	0	1	1	0	1	0	0	0	0	0	0	2
3.	Austria	0	1	1	0	1	1	0	0	0	0	0	0	3
4.	Bulgaria	2	0	2	1	0	1	1	0	1	0	0	0	4
5.	Canada	28	10	38	28	3	31	0	7	7	0	0	0	5
6.	Chile	3	0	3	3	0	3	0	0	0	0	0	0	6
7.	China	45	0	45	37	0	37	8	0	8	0	0	0	7
8.	Colombia	1	0	1	1	0	1	0	0	0	0	0	0	8
9.	Costa Rica	0	1	1	0	1	1	0	0	0	0	0	0	9
10.	England	12	3	15	2	3	5	10	0	10	0	0	0	10
11.	Fed. Malay States	1	0	1	1	0	1	0	0	0	0	0	0	11
12.	France	1	3	4	1	3	4	0	0	0	0	0	0	12
13.	Germany	9	1	10	7	1	8	0	0	0	2	0	2	13
14.	Haiti	1	0	1	1	0	1	0	0	0	0	0	0	14
15.	Hawaii	5	0	5	5	0	5	0	0	0	0	0	0	15
16.	India	3	0	3	2	0	2	1	0	1	0	0	0	16
17.	Japan	6	0	6	5	0	5	1	0	1	0	0	0	17
18.	Korea	1	0	1	1	0	1	0	0	0	0	0	0	18
19.	Mexico	5	0	5	5	0	5	0	0	0	0	0	0	19
20.	New Zealand	1	0	1	1	0	1	0	0	0	0	0	0	20
21.	Nicaraqua	1	0	1	1	0	1	0	0	0	0	0	0	21
22.	Norway	1	0	1	1	0	1	0	0	0	0	0	0	22
23.	Persia	1	0	1	1	0	1	0	0	0	0	0	0	23
24.	Phillippine Islands	9	0	9	6	0	6	3	0	3	0	0	0	24
25.	Poland	3	0	3	3	0	3	0	0	0	0	0	0	25
26.	Scotland	1	0	1	1	0	1	0	0	0	0	0	0	26
27.	South Africa	2	0	2	2	0	2	0	0	0	0	0	0	27
28.	Spain	0	2	2	0	2	2	0	0	0	0	0	0	28
29.	Sweden	1	0	1	1	0	1	0	0	0	0	0	0	29
30.	Switzerland	3	0	3	2	0	2	0	0	0	1	0	1	30
31.	Turkey	3	0	3	3	0	3	0	0	0	0	0	0	31
32.	Uruguay	0	2	2	0	2	2	0	0	0	0	0	0	32
33.	Total, Countries outside U. S.	153	23	176	126	16	142	24	7	31	3	0	3	33
34.	Total, Wisconsin	5,399	3,265	8,664	4,639	2,375	7,014	578	890	1,468	182	0	182	34
35.	Total, Other States	2,353	2.999	5,352	1,588	1,333	2,921	756	1,666	2,422	9	0	9	35
36.	Grand Total	7,905	6,287	14,192	6,353	3,724	10,077	1,358	2,563	3,921	194	0	194	36

KEY TO LETTERS FOLLOWING NAMES

A	Agriculture
AA	Applied Arts Course
AMid	Middle Agricultural Course
CC	Course in Commerce
CE	Civil Engineering
CH	Course in Humanities
CJ	Course in Journalism
ChC	Chemistry Course
ChCC	Chemistry-Commerce Course
ChE	Chemical Engineering
EE	Electrical Engineering
ExpC	Experimental College
GenC	General Course (Ph. B. degree)
GrN	School of Nursing, three-year course
Grad	Graduate School
HE	Home Economics
HygC	School of Nursing, five-year course
IndEd	Industrial Education Course
L	Law
LS	General Course (B.A. degree)
M	Music
MApp	Applied Course in Music
ME	Mechanical Engineering
Med	Medicine
MinE	Mining Enineering
NorC	Course for Normal School Graduates
Ph	Pharmacy Course
PreMed	Premedical Course
PhysEd	Physical Education Course
WLS	Wisconsin Library School

KEY TO REFERENCES

*	Degrees conferred since Commencement, 1929
**	Degrees conferred from January until Commencement, 1929

DEGREES CONFERRED ON COMMENCEMENT DAY, 1929

COLLEGE OF LETTERS AND SCIENCE

BACHELOR OF ARTS

GENERAL COURSE

Monrad Edward Aaberg
Irvin I. Aaron
Margaret Loretta Ahern*
Georgia Florence Allen*
Gibbs Rue Allen
Jane C. Allen
Mildred Pansy Alvis
Andrew Russell Anderson
Arthur Bernhard Anderson*
Irene Dorothy Anderson
Roy Ellsworth Andree
Charles Francis Andrews
Marion Appleman*
Eleanor J. Armstrong
Lorraine S. Arnold
Elizabeth Lovina Babcock
Alois Martin Bachhuber
Bertha Ruth Baratz
Helen Louise Barker
Mary Irene Barstow
Marjorie Wilhelmina Bartelt*
Jean Catherine Bartholomy
Josephine Bevelyn Bassett
Dorothy Christine Bauch
John Caspar Bauman
Elda Ottelie Baumann
Fred William Baumann*
Hilbert Christ Becker
Elynore Frances Bell
Fern Ruth Bell
Lois Bell
Mary Louise Bell
William J. Davis Bell, Jr.
George Bancroft Benson
Mary Cathryn Beran*
Evelyn Carolyn Berkness
Elmer Edgar Bertolaet
Anita Bespalow
Hannie Beyer*
Lucy E. Biggar
Myrtle Ruby Binzer
Elizabeth Birt
Virginia May Bishop*
Joseph Blatecky, Jr.
Anna Ottilia Blum
Grace Elizabeth Bogart
Chester Bohman*
Olivia Marie Bohri
Helen Elizabeth Boland
Merville Ynez Bolger
Howard Boogher
John A. Booher*
Beatrice Boughner
Elizabeth Sayre Bovier
Samuel Huntington Boyer, Jr.
Margaret Elizabeth Brammer
Gwetholyn Mary Bray
Potter Brayton*
Bernard Cushing Brazeau
Donald Thomas Brennan
Edward William Brody
Josephine Brown
Dorsey A. Buckley
Augusta Jane Bull
Isabel Blanche Bunker
Lowell Francis Bushnell
Lucille Kathryn Busse
Ellen Elizabeth Bussey
Lois Elizabeth Anne Byrns
Marvel Elizabeth Caldwell
Tirzah Ann Caldwell
Ora Irene Campbell
Paul Edward Campbell*
Dorothy Vernon Canfield
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Physiological Chemistry and Physiology
The conductivity method and proteolysis.

Arvil Sylvester Barr, M.A. (Indiana University)* *Madison*
Education and Psychology
A study of the teaching performance of good and poor teachers of the social studies in the junior and senior high school.

Alfred Glen Barry, M.A. (University of Wisconsin) *Madison*
Socialogy, Psychology, and Economics
Police problems in the light of modern science.

Harold William Beams, M.A. (Northwestern University)* *Belle Plaine, Kans.*
Zoology and Anatomy
Cytological study on milk formation.

Ralph David Bienfang, M.S. (University of Wisconsin) *Jefferson*
Pharmacognosy and Plant Physiology
A pharmacognostical study of Polygala senega Linne.

Jacob Roy Blough, M.A. (University of Wisconsin) *Madison*
Economics and Law
The geographical distribution of Wisconsin tax bases and its significance in state fiscal policy.

Hugh Samuel Bostock, M.S. (McGill University) *Monte Creek, B. C. Can.*
Geology and Mining Engineering
The geological and ore deposits of the Nickel Plate Mountain, Hedley, British Columbia.

John Edleston Bowstead, M.S. (University of Wisconsin)* *Edmonton, Alberta, Can.*
Animal Husbandry, Agricultural Chemistry and Genetics
The effect of breeding immature females.

Alfred Warren Briggs, M.S. (University of Wisconsin) *Madison*
Economics, Philosophy and Political Science
Labor in the window glass industry.

Charles Russel Burnham, M.S. (University of Wisconsin) *Fort Atkinson*
Genetics and Plant Pathology
Studies on the inheritance of wilt resistance in flax.

Howard Black Calderwood, Jr. B.A. (Ohio Wesleyan) *Tyrone, Pa.*
Political Science and History
International protection of minorities in national states.

Morris Gilmore Caldwell, M.A. (University of Wisconsin) *Lodi*
Sociology, Economics, and Political Science
Male juvenile delinquency in relation to the home and community environment: a study of the commitments to the Wisconsin Industrial School for Boys July 1, 1925 to December 31, 1927.

Ralph Merrill Caldwell, M.S. (University of Wisconsin) *Madison*
Botany, Plant Pathology, and Plant Physiology
Scald of cereals and other grasses caused by Rhynchosporium spp.

Ralph Droz Casey, M.A. (University of Washington) *Eugene, Ore.*
Political Science and Journalism
Propaganda technique in the 1928 presidential campaign.

Ewan Clague, M.A. (University of Washington) *New York, N. Y.*
Economics, Political Science, and Philosophy
Theory and measurement of phyiscal productivity.

Allan Philip Colburn, M. S. (University of Wisconsin) *Wauwatosa*
Chemical Engineering, Physical Chemistry, and Physics
Heat transfer in tubular gas condensers.

Newel Howland Comish, M.S. (University of Wisconsin)* *Corvallis, Ore.*
Agricultural Economics, Sociology and Education
The standard of living.

Homer Vincent Craig, B.A. (University of Colorado)* *Madison*
Mathematics and Applied Mathematics
On the simultaneous differential invariants of two functions with an application to the calculus of variations.

Howard Irving Cramer, M.S. (University of Wisconsin)* *Cuyahoga Falls, Ohio*
Organic Chemistry and Inorganic Chemistry
Catalysis by nickel of the reduction of various organic compounds with hydrogen at pressure of from 20 to 400 atmospheres.

Jean Scobie Davis, M.A. (University of Wisconsin) *Princeton, N. J.*
Economics and Sociology
The development of labor management in southern cotton mills.

Allan David Dickson, B.S. (University of Wisconsin)** *Madison*
Agricultural Chemistry and Applied Botany
A chemical study of soluble carboyhydrates and respiration in different strains of Zea mays as influenced by temperature.

Herbert Benjamin Dorau, M.A. (University of Wisconsin) *Evanston, Ill.*
Economics and Agricultural Economics
The changing character and extent of municipal ownership in the electric light and power industry.

Walter Henry Ebling, M.S. (University of Wisconsin) *Madison*
Agricultural Economics, Agricultural Journalism, and Geography
The distribution of gross farm income in Wisconsin.

George Konti Eggleston, M.A. (University of Wisconsin) *Dallas*
History, Political Science, and Economics
The number, care and disposition of the negroes by the Union forces during the Civil War.

Herbert Pulse Evans, M.S. (University of Wisconsin) *Madison*
Applied Mathematics and Mathematics
The two-dimensional boundary value problem for the transmission of alternating currents through a heterogeneous earth.

George W. Filson, M.A. (University of Wisconsin)* *Madison*
General Chemistry and Organic Chemistry
A study of autoidation of certain organic and inorganic compounds.

Alton Harold Finch, M.S. (Iowa State College) *Hubbard, Ore.*
Horticulture, Plant Physiology, and Plant Morphology
The physiology of apple varieties.

Marion Conner Ford, M.S. (University of Wisconsin) *Bowling Green, Ky.*
Soils and Plant Physiology
Distribution, solubility, and nature of the phosphates in certain Kentucky soils.

John Tilson Ganoe, M.A. (University of Oregon) *Madison*
History and Economics
Federal reclamation policies.

Meredith Bruner Givens, B.A. (Drake University) *New York, N. Y.*
Economics and Law
Productivity changes in the iron and steel industry.

Elsie Gluck, B.A. (University of Wisconsin)* *Madison*
Economics, Political Science and Sociology
John Mitchell: miner.

Donald Penrose Graham, M.S. (University of Wisconsin) *Seattle, Wash.*
Physical Chemistry and General Chemistry
Promoter action in reactions of oxidation concomitant with the catalytic decomposition of hydrogen peroxide.

Frank Lester Gunderson, M.S. (University of Wisconsin) *Madison*
Agricultural Chemistry and Medical Physiology
The vitamin B content of milk in relation to diet.

Edwin Michael Guyer, B.A. (University of Wisconsin)* *Madison*
Experimental Physics and Mathematical Physics
Magnetic permeability in high frequency fields.

Adolph Theodore Haentzschel, M.A. (University of Wisconsin) *Madison*
Philosophy and Psychology
The sources of assurance.

James Morton Hamilton, B.S. (Toronto University) *Mount Albert, Ont., Can.*
Plant Pathology and Botany
Studies of the fungicidal action of certain dusts and sprays in the control of apple scab.

Joseph Donald Hanawalt, B.A. (Oberlin College)** *Akron, Ohio*
Physics and Mathematics
The crystal structure of sputtered nickel films.

James Vernon Harvey, M.A. (University of Northern California)* *San Bernardino, Ca.*
Botany and Zoology
A taxonomic and morphological study of some members of the Saprolegniaceae.

Arthur Albert Harwood, M.S. (University of Wisconsin) *Potosi*
Plant Chemistry and Pharmacognosy
Monarda punctata L. with special reference to the non-volatile constituents.

Donald Haworth, M.A. (University of Chicago)* *Akron, Ohio*
Speech and History
An analysis of speeches in presidential campaigns from 1884 to 1920.

Herbert Heinrich, M.S. (Marquette University) *Milwaukee*
General Chemistry and Organic Chemistry
On the chemical nature of nutshells.

Leonard Clinton Helderman, M. A. (University of Wisconsin) *Lexington, Va.*
History and Political Science
Origins of the national-banking system: a study of state bank experience.

Clarence Irving Hendrickson, B.S. (University of Wisconsin)* *College Stores, Conn.*
Agricultural Economics, Political Science and Psychology
A history of tobacco production in New England.

Reuben G. Henrich, M.S. (University of Wisconsin) *Milwaukee*
Inorganic Chemistry and General Chemistry
I. A micro Soxhlet extractor and its use in the study of lake plankton.
II. Studies on the analytical chemistry of columbium.

James Homer Herriott, M.A. (University of Kansas) *Garden City, Kans.*
Spanish and French
A Spanish translation of Recension–J^2 of the *Historia de Preliis.*

Ora Almon Hilton, B.S. (Missouri State Teachers College)* *Madison*
United States History, Political Science, and Economics
The control of public opinion in the United States during the world war.

Samuel Huntington Hobbs, Jr., M.A. (University of North Carolina)* *Chapel Hill, N. C.*
Rural Sociology and Sociology
North Carolina: Economic and social.

Frances Elizabeth Holford, M.A. (University of Wisconsin) *Cassville*
Medical Bacteriology, Pathology, and Physiological Chemistry
The pracental transmission of foreign protein in rabbits.

Frank Lincoln Duane Holmes, M.A. (University of Wisconsin)** *Minot, N. Dak.*
Speech, Psychology, and Comparative Literature
An experimental study in individual vocal quality.

Walter Rawlins Horlacher, M.S. (Kansas State Agricultural College) *College Station, Tex.*
Genetics, Zoology, and Animal Husbandry
The inheritance of red-and-black color patterns in pigeons.

Loren Curtis Hurd, M.A. (University of Wisconsin) *Madison, Minn.*
Inorganic Chemistry and General Chemistry
A study of the ammonates of copper selenate and copper selenite.

Herbert Spencer Jackson, B.A. (Cornell University)** *West La Fayette, Ind.*
Botany and Plant Pathology
Present evolutionary tendencies and the origin of life cycles in the Uredinales.

Seymour William Frederick Kletzien, M.S. (University of Wisconsin) *New Holstein*
Agricultural Chemistry, Physiology and Agricultural Bacteriology
Yeast as a source of substances antirachitically activatable.

Selmer Christopher Larson, M.A. (University of Wisconsin) *Chicago, Ill.*
Education, Mathematics, and Psychology
Studies in aptitude forecasting with the multiple regression equation.

Carl Herbert Laub, M.A. (University of Wisconsin) *Terre Haute, Ind.*
History and Political Science
The land problem in the Ohio Valley, 1775–1784.

Hoon Koo Lee, M.S. (Korea Suchun Agricultural College)* *Suchun, Korea*
Agricultural Economics, Sociology and Political Science
A history of land systems and policies in Korea.

Edward Thompson Lessig, B.S. (Pennsylvania State College) *Madison*
Physical Chemistry and Applied Mathematics
The decomposition of organic vapors at elevated temperatures.

Ti-Tsun Li, M.A. (University of Wisconsin) *Hupeh, China*
Political Science, Economics, and History
The political and economic theories of Sun Yat Sen.

Carl Warning Lindow, M.S. (University of Wisconsin) *Elkhorn*
Agricultural Chemistry and Bacteriology
The distribution of manganese and copper in plant and animal materials.

Ruth Hutchinson Lindsay, M.A. (University of Wisconsin) *Nashotah*
Botany and Zoology
The chromosomes of some dioecious angiosperms.

Albert Eddy Lyon, M.A. (University of Wisconsin) *Madison*
Spanish and French
The *Articulo de Costumbres* in the periodicals of Madrid, 1700–1808.

Herbert O. Lyte, M.A. (Columbia University)* *Iowa City, Iowa*
German and Spanish
Spanish literature and Spain in some of the leading German magazines of the second half of the eighteenth century.

Robert Earl McClendon, M.A. (University of Texas) *Ben Arnold, Tex.*
History and Political Science
The practice and effects of the two-thirds rule in Senate action upon treaties, 1789–1901.

Elizabeth Florence McCoy, M.S. (University of Wisconsin) *Madison*
Agricultural Bacteriology and Botany
A cytological and histological study of the root nodules of the bean, Phaseolus vulgaris L.

John Raymond McCrory, M.A. (University of Wisconsin) *Madison*
Education and Psychology
The accomplishment quotient—its various correlations and especially its reliability and its predictive value.

Robert John McCubbin, M. S. (University of Wisconsin) *Milton Juncton*
Organic Chemistry and General Chemistry
The oxidation of di-and triisobutylene by ozone.

James Donald MacLean, M.E. (University of Wisconsin) *Beloit*
Mechanical Engineering and Mathematics
Relation of treating variables to the penetration and absorption of preservatives into wood.

Theodore Bergen Manny, M.S. (University of Wisconsin)** *Conway, Ark.*
Agricultural Economics, Psychology, and Political Science
A sociological study of local government in the United States.

Joseph Holmes Martin, M.S. (University of Kentucky)** *Lexington, Ky.*
Genetics and Zoology
An analysis of barring in the barred Plymouth Rock fowl.

John Brown Mason, M.A. (University of Wisconsin)* *Indianapolis, Ind.*
Political Science and European History
The legal status of the Free City of Danzig.

James Albert Melrose, M.A. (University of Wisconsin) *Decatur, Ill.*
Philosophy, Psychology, and Education
A genetic view of consciousness.

Alvin Rees Midgeley, M.S. (Utah Agricultural College) *Salt Lake City, Utah*
Agronomy, Soils, and Plant Physiology
Movement, fixation, and availability of phosphates in relation to permanent pasture fertilization.

Burton Frank Miller, M.S. (University of Wisconsin)* *Coloma*
Physics and Mathematics
Theory of vacuum tube amplifiers.

Paul William Miller, M.S. (University of Kentucky) *Hood River, Ore.*
Plant Pathology and Botany
Studies of the epidemiology, pathalogical histology, and control of the fire blight of the apple.

Nico Mogendoff, M. S. (Rutgers University) *Madison*
Plant Pathology, Plant Chemistry, and Botany
The symptomatology of certain plant virus diseases with special reference to tomato "fern-leaf".

Clyde Anson Morley, M.A. (University of Wisconsin) *Madison*
Education and Psychology
The reliability of the achievement quotient.

Haridas Thakordas Muzumdar, M.A. (Northwestern University)* *Bombay, India*
Sociology, Economics and Psychology
Certain bases of Hindese nationalism.

Lowry Nelson, B.S., (Utah Agricultural College)* *Provo, Utah*
Rural Sociology, Sociology and Agricultural Journalism
The Morman village: a study in social origins.

John William Ockerman, M.A. (Lawrence College) *Stoughton*
Geology and Geography
A petrographic study of the Madison and Jordan sandstones in Southern Wisconsin.

Joseph Francis Oesterle, M.S., (University of Wisconsin) *Madison*
Metallurgy and Chemical Engineering
Composition of blast furnace slags.

Delos Sacket Otis, M.A. (University of Wisconsin) *Cape Vincent, N. Y.*
History, Political Science, and Economics
The rise of national prohibition, 1870–1919.

Henry Otterson, M.S. (University of Wisconsin) *Deer Park*
Agricultural Chemistry and Plant Physiology
A quantitative accounting of the starch fraction in plant analysis.

George Ambrose Parkinson, M.A. (Ohio State University)* *Milwaukee*
Pure Mathematics and Applied Mathematics
Pairs of curves in an Sn.

Philip Hilmore Person, M.A. (University of Wisconsin)* *Madison*
Sociology and Psychology
The Penology of Jeremy Benthan.

Leo James Peters, E.E. (University of Wisconsin) *Madison*
Electrical Engineering, Mathematics, and Physics
Theory of thermionic vacuum tube circuits.

Wesley Rasmus Peterson, M.S. (University of Illinois)* *Irene, S. Dak.*
Organic Chemistry and Physical Chemistry
The Oxidation of methanol with air over oxide catalysts.

Agapito Rey, M.A. (University of Michigan) *Bloomington, Ind.*
Spanish and French
Leomarte, *Sumas de Historia Troyana*—edicion, prologo, notas y vocabulario.

Harvey August Riebe, Ph.M. (University of Wisconsin) *Onalaska*
Education and Psychology
The use and value of supplementary text material in arithmetic.

Roy Marvin Robbins (University of Wisconsin) *Richmond, Ind.*
History, Political Science, and Economics
History of the preemption of the public lands 1780–1890.

Rex Julian Robison, M.A. (University of Wisconsin) *Maxwell, Ind.*
Inorganic Chemistry, Physical Chemistry, and Organic Chemistry
The quantitative determination of nitrogen, phosphorus, and silica in lake waters.

Stanley Walker Rockwood, M.A. (University of Chicago) *Madison*
French and Spanish
A comparative study of the works of Pierre Loti and Joseph Conrad.

Charles Nathaniel Saltus, M.A. (University of Wisconsin) *Madison*
English and Philosophy
Francis Marion Crawford.

Harold Karl Salzberg, M.S. (University of Illinois) *Pittsburg, Pa.*
Forest Products and Organic Chemistry
Experiments in the drying of wood.

Paul Leo Savageau, M.A. (University of Wisconsin) *West De Pere*
Greek and Latin
Wisconsin Papyri.

Herbert Samuel Schell, M.A. (Columbia University) *Vermillion, S. Dak.*
History and Political Science
The inflation movement, 1862–1879.

Mariele Rosalia Schirmer, M.A. (University of Wisconsin) *Milwaukee*
German and French
American criticism of German naturalistic drama.

Henry Thomas Scott, M.S. (University of Wisconsin) *Poynette*
Agricultural Chemistry, Medical Physiology, and Inorganic Chemistry
Factors affecting calcium metabolism.

Reubush George Shands, M.S. (University of Wisconsin) *Florence, S. C.*
Plant Pathology. Agronomy, and Botany
Winter injury of wheat.

Krishnarao Shivarao Shelvanker, B.A. (National University)* *Madrid, India*
Poltical Science, Medieval History, and Modern History
The idea of equality.

John Harvey Sherman, M.A. (University of Wisconsin)** *Oak Park, Ill.*
Economics, Agricultural Economics, and Sociology
The custom in food consumption, distribution, and pricing with a theory of custom.

Harold Hance Sprout, M.A. (Oberlin College)* *Madison*
International Law, Constitutional Law, and Agency
The status of customary international public law in the federal courts of the United States.

Henry M. Stark, M.S. (University of Wisconsin) *Spanish Fork, Utah*
General Chemistry and Physical Chemistry
A study of the coagulation of ferric oxide soils by gas bubbles.

Hugh R. Stiles, M.S. (University of Wisconsin) *Lake Mills*
Agricultural Chemistry and Agricultural Bacteriology.
Studies in fermentation.

Philip Trimble Stroup, M.A. (Indiana University) *Bloomington, Ind.*
Inorganic Chemistry and Physical Chemistry
The equilibria and reaction rates between sodium arsenite and tellurate.

Eva Swantner, M.A. (University of Wisconsin) *Fremont, Nebr.*
History and Political Science
Northern control of Southern railroads during the Civil War.

Allen Crawford Tester, M.A. (Kansas University) *Iowa City, Iowa*
Geology, Zoology, and Physiography
The Dakota stage of the type area with notes on some adjacent localities.

Phillippe Armand Tetrault, M.S. (Purdue University)* *West Lafayette, Ind.*
Agricultural Bacteriology and Botany
Thermophilic cellulose fermentation.

Byron Henry Thomas, M.S. (University of Wisconsin) *Oakland, Calif.*
Animal Husbandry, Agricultural Chemistry, and Genetics
A comparison of certain cereals and cereal by-products in the production of rickets.

Otto Eric Toenhart, M.S. (University of Wisconsin) *Milwaukee*
General Chemistry, Organic Chemistry, and Food Chemistry
On the occurrence of copper in organisms.

Marguerite H. Treille, M.A. (University of Wisconsin) *Allier, France*
French and Spanish
Conflict dramatique en France de 1823 a 1830 d'apres les journaux et les revues du temps.

Helen V. Gill Viljoen, M.A. (University of California) *Madison*
English and Philosophy
The first volume of John Ruskin's *Modern Painters* in its relation to 18th and early 19th century thought.

Bryan Lewellyn Wade, M.S. (West Virginia University)* *Smithfield, W. Va.*
Genetics and Plant Pathology
Studies on the inheritance of fusarium wilt resistance in canning peas.

James Roy Wallin, Ph.M. (University of Wisconsin)* *Madison*
Economics and Law
Public ownership of electric utilities in Wisconsin.

Tsao Shih Wang, M.A. (University of Wisconsin) *Kiangsi, China*
Political Science and Economics
Disarmament in the foreign policy programs of the Great Powers since 1919.

Alice Farwell Warren, M.A. (University of Wisconsin)* *Weston, Mass.*
History and Sociology
John Cotton the Father of Boston.

Kenneth Merle Watson, M.S. (University of Wisconsin) *Parkersburg, W. Va.*
Chemical Engineering and Physical Chemistry
The dissolution of granular solids in liquids.

Julian Hale Webb, M.S. (University of Wisconsin) *Anderson, S. C.*
Physics and Mathematics
Potential distribution due to a buried sphere under the influence of a point electrode.

Virgil Roe Wertz, M.S. (University of Wisconsin) *Columbus, Ohio*
Agricultural Economics and Economics
The estimated income from Ohio's agricultural industry.

Lucy Adele Whitsel, M.S. (University of Wisconsin) *Madison*
Latin and Greek
Studies in the grouping of words in Roman comedy.

Abraham Hiebert Wiebe, M.S. (Ohio State University) *Fairport, Iowa*
Zoology and Physiology
The productivity of fish ponds—the plankton.

Griffith Wynne Williams, Pd.M. (Hartford Seminary Foundation) *Madison*
Psychology and Education
Some quantitative determinations of muscular phenomena in the hypnotic state.

Earl Holden Winslow, M.S. (University of Wisconsin) *Westboro, Mass.*
Inorganic Chemistry, Physical Chemistry and Organic Chemistry
A study of the action of dry and moist chlorine gas on certain metals and alloys.

Katherine D. Kleuter Wood, M.A. (University of Wisconsin) *New York, N. Y.*
Political Science, Sociology, and Economics
The question of international regulation of migration.

Chao-Fa Wu, M.A. (University of Wisconsin) *Honan, China*
Zoology and Physiology
Cytological studies on the spinning glands of the larva of Galleria mellonella: respective roles played by the nucleus, the mitochondria, and the Golgi apparatus during secretion.

Elaine Margaret Young, M.S. (University of South Africa)
Johannesburg, S. Africa
Botany and Plant Pathology
Physiological and cytological studies in Monascus.

William John Zaumeyer, M.S. (University of Wisconsin) *Milwaukee*
Plant Pathology and Economic Entomology
Studies on the bacterial blight of beans.

HONORARY DEGREES

MASTER OF ARTS

Chester Hjortur Thordarson	*Chicago, Illinois*

DOCTOR OF LETTERS

Zona Gale Breese	*Portage*
Carl von Marr	*Munich, Germany*
Ole Edvart Rolvaag	*Northfield, Minnesota*

DOCTOR OF LAWS

Walter Wheeler Cook	*Baltimore, Maryland*
Walter C. Murray	*Saskatoon, Sask., Can.*

HONORS FOR THESES

COLLEGE OF LETTERS AND SCIENCE

Irvin I. Aaron
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Genevieve Ruby House
Emily Powers Iglehart
Margaret Elinor Jones
Robert Burton Larkin
Berniece Nisha Lotwin
Ruth Robina Macfarlane
Gertrude May McPherson
Pearl Malsin
Stephen Barr Miller
Charles Joseph Driscoll Murphy
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John Arthur Oakey

COLLEGE OF AGRICULTURE

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HOME ECONOMICS

Marian Alice Bailey
Florence Leone Bey
Bertha Magdalene Schmid
Eleanor Marie Weaver

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Arvin Francis Doyle
Marvin Meyer Fein
Julius Albert Krug
Charles Joseph Driscoll Murphy
Kenneth William Pollock
Emma Alice Robeson
Walton Seymour
Frances Lee Utley
Max Wax
Charles Frederick Weiler

CERTIFICATE OF GRADUATE NURSE

Ruth Magdalene Buellesbach
Marjorie Draper
Helen Mae Folsom
Bernice Irene Funnell
Ruth Luba Gronlund
Edith Josephine Huerth
Marie Carolyn Ingebritsen
Marion Anna Johnson
Ruth Margaret Johnson
Janet Agnes Magistad
Marjorie Marshall
Nell Mary Myers
Venice Ann Mary Pierstorff
Mildred Elsie Pike
Arleen Ellen Selmer
Ione Sherwood
Bernice Hutchinson Smith
Rose Hermina Stillman, B.A.
Theresa Stolen
Elizabeth Margaritha Tschan
Rose Martha Tschan
Jeanette Beckman Vroom
Kathryn Edna Wilder
Royletta Aileen Woodle

LIBRARY SCHOOL CERTIFICATE

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Bernice Altpeter
Lois Bell
Cornelia Bertsche
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Bertha Henry Branson
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Norma Eleanor Churchill, B.A.
Frances Jane Collier
Bernice Louise Cox
Mildred Harvey Crew
Loucile Ann Crist
Catherine Deschamps
Elsie Josephine Dietz
Florence Eldred Dragoo
Alice Catherine Field
Sophia Furman
Willie Sidney Gay, B.A.
Ellen Bernice Gibson, B.A.
Josephine Mannette Howland
Margery Ruth Leamer, B.A.
Marguerite McDonald, B.A.
Signe Ruh Ottersen
Dorothy Harriet Peterson
Catharine Jean Ritchie, B.A.
Helen Frances Robb, B.A.
Florence Emily Rogers, B.A.
Margaret Irene Rufsvold
Elleaner Marie Ryerson, B.A.
Ingeborg Marie Scheie, B.A.
Margaret Castle Schindler, B.A.
Elizabeth Louis Schweitzer, M.A.
Helen Walter Skemp, B.A.
Stewart Worland Smith
Marjorie Evelyn Stanley, B.A.
Erna Rebecca Stech
Marjorie Alice Stroud
Gwendolyn Morton Witmer
Helen Virginia Zabel, B.A.
Minnie Etta Zimmerman, Ph.B.
Lois Zwinggi, B.A.

SUMMER SESSION, 1929

GRADUATE STUDENTS

Aaberg, Monrad Edward gm — *Greenwood*
B.A., University of Wisconsin

Aaberg, Percy — *Westby*
B.A., Ripon College

Aamodt, Geneva Pauluda — *Muskegon, Mich.*
B.A., Milwaukee-Downer College

Adam, Lawrence William — *Delphos, Ohio*
B.S., Ohio State University

Adams, Albert B. — *Chicago, Ill.*
B.S., Lombard College

Aeikeins, John — *Rockford, Ill.*
B.A., Central College

Agger, Alice Lucille — *Indianapolis, Ind.*
B.A., Illinois Woman's College

Agger, John — *Jacksonville, Ill.*
B.A., Indiana University

Alberts, Max Henry g — *Madison*
M.A., University of Wisconsin

Alberty, Lumen Harvey — *Lincoln, Nebr.*
B.S., Kansas State Teachers College

Albright, Martha Jane — *Albany, N. Y.*
M.A., New York State Teachers College

Allen, Elizabeth Winslow — *Valley City, N. Dak.*
B.S., University of Wisconsin

Allen, Marion Bradburn — *Cambridge*
B.A., University of Wisconsin

Allen, Oscar Nelson g — *Ennis, Tex.*
M.A., University of Texas

Allgeier, Rudolph Joseph g — *Chicago, Ill.*
B.S., University of Wisconsin

Allman, Mary Aileen — *Hammond, Ind.*
B.A., Northwestern University

Amborn, Lewis William g — *Middleton*
B.S., University of Wisconsin

Amon, Martha Ruth — *Sparta*
B.S., University of Wisconsin

Andersen, Martin Perry — *Madison*
B.A., University of Wisconsin

Anderson, Alice Emerence g — *Madison*
B.A., University of Wisconsin

Anderson, Anne Marie (Mrs. J. A.) — *Ashland, Ky.*
B.A., Transylvania College

Anderson, James A., Jr. — *Ashland, Ky.*
B.A., Hendrix College

Anderson, Margaret Louise — *Galesburg, Ill.*
M.A., University of Kansas

Anderson, Phyllis Irene — *Whitewater*
B.E., Whitewater State Teachers College

Anderson, Ruth Mildred — *Hibbing, Minn.*
B.S., University of Wisconsin

Anderson, Sada Loraine — *Kennedy, N. Y.*
B.S., Michigan State College

Andrews, Flood Shields — *Clemson College, S. C.*
M.S., Michigan State Normal College

Annin, Gerald E. — *Madison*
B.S., University of Missouri

Anschutz, Margaret Irma — *Bay City, Mich.*
M.A., University of Michigan
Anspach, Charles Jacob — *Milwaukee*
B.A., University of Wisconsin
Appelt, Ewald Paul g — *Madison*
M.A., Northwestern University
Armstrong, Emily Cash — *Springfield, Mo.*
B.A., Drury College
Arnold, Harold A. — *Menomonee Falls*
B.S., University of Wisconsin
Arnold, Orlan McGrew g — *York, Nebr.*
B.A., Grinnell College
Asmundson, Vigfus S. g — *Vancouver, B. C., Can.*
M.S., Cornell University
Atanasoff, John Vincent g — *Madison*
M.S., Iowa State College
Auerswald, Edgar H. — *Marinette*
B.A., University of Wisconsin
Austin, Alice May g — *Madison*
M.A., University of North Dakota
Austin, Frances Ellsworth — *Bloomington*
B.A., University of Wisconsin
Austin, Rayburn Castle m — *Madison*
B.A., University of Iowa
Ausitn, Robert L. — *Eudora, Ark.*
B.A., University of Arkansas
Axline, Ivy Irene — *Wichita, Kans.*
B.S., Central Missouri State Teachers College
Ayres, Gilbert H. g — *Upland, Ind.*
B.A., Taylor University
Baernstein, Harry Daniel — *Madison*
Ph.D., University of Wisconsin
Bagshaw, James Everette — *Perrysville, Ind.*
B.A., Central Normal College
Bahr, Marie Alice — *Berlin*
B.A., Ripon College
Bailey, Charles Frederick g — *Springfield, Ill.*
B.S., University of Illinois
Bailey, Harold Moore — *Clarion, Pa.*
B.A., Grove City College
Bailey, Lawrence Gary g — *Kershaw, S. C.*
M.A., University of South Carolina
Baird, George Walter — *Gillett*
Ph.B., University of Wisconsin
Baker, Lewis William — *Canton, Ohio*
Ph.B., Heidelberg College
Ballance, Bernice — *Lincoln, Nebr.*
B.A., University of Nebraska
Ballard, Evaline — *Crawfordsville, Ind.*
B.A., De Pauw University
Ballard, Ida Myrtle — *Ogden, Utah*
B.S., Northwest Missouri State Teachers College
Ballard, Kathleen Marie — *Bay City, Mich.*
B.S., University of Wisconsin
Bancroft, Margaret Eudora — *Dubuque, Iowa*
B.A., University of Dubuque
Barker, Russell Harold g — *Madison*
M.A., University of Wisconsin
Barlan, Helen Forester — *Janesville*
B.A., Beloit College

Barlowe, Leila Mae — *Americus, Ga.*
B.A., Spelman College
Barnard, Raymond H. g — *St. Paul, Minn.*
B.S., University of Minnesota
Bartlett, George Wesley — *Hamiota, Man. Can.*
M.A., University of Manitoba
Bartlette, Alice M. — *McPherson, Kans.*
B.S., Oklahoma Agricultural and Mechanical College
Bass, Emerson Herthel — *Morristown, Ind.*
B.A., Central Normal College
Bassett, Gladys Barton g — *Madison*
B.A., Vassar College
Batchelder, George W. g — *Faribault, Minn.*
B.A., Carleton College
Batesole, Glen Lyman — *Rockford, Ill.*
B. S., Beloit College
Batha, Vincent P. — *Waukesha*
B. S., Carroll College
Battell, Harriet Louise — *Milwaukee*
B.A., Carroll College
Battig, Leon — *Milwaukee*
B.A., University of Wisconsin
Batz, Coletta Mary — *Sun Prairie*
B.A., University of Wisconsin
Bauch, Dorothy Christine g — *Milwaukee*
B.A., University of Wisconsin
Bauder, Russell Stickney g — *Madison*
M.A., University of Wisconsin
Bayla, Arsenio M. g — *Silang, Cairte, P. I.*
M.S., University of Wisconsin
Beal, Beecher Blaine — *Hibbing, Minn.*
B.S., Upper Iowa University
Beams, Harold William — *Belle Plaine, Kans.*
M.A., Northwestern University
Beard, Marie Helen — *Marion, Ind.*
B.A., Marion College
Beard, Marshall Rust g — *Marion, Ind.*
M.A., University of Wisconsin
Beck, Walter Herman — *Greensboro, N. C.*
B.A., Northwestern University
Beelman, Floyd Cornealius — *Willard, Ohio*
B.A., Otterbein College
Beem, William Earl — *Mount Vernon, Iowa*
B.A., University of Illinois
Beery, George S. M. — *Markle, Ind.*
B.A., Manchester College
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B.A., University of Wisconsin
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B.A., Carroll College
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Broughton, Nettie Ruth — *La Otto, Ind.*
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Brown, Marshall Walton — *Clinton, S. C.*
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Cousins, Marguerite Louise — *Emporia, Kans.*
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Cown, Betty Barker
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Cross, Maude Lucille — *Emporia, Kans.*
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Cross, Paul Clifford g — *Bruin, Pa.*
B.S., Geneva College
Cross, S. Zenophon g — *Wayne, Nebr.*
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Crowe Edith g — *Fort Wayne, Ind.*
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Croxton, Orson Hinman — *Watseka, Ill.*
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Crozier, Ronald Gilpin g — *Madison*
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Crumbaker, Calvin g — *Missoula, Mont.*
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Daley, James Dwight — *Madison*
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Dalton, Margaret R. g — *Northfield, Minn.*
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Dawson, Emily Warren — *Madison*
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Denison, Mortimer Cooper — *Mellen*
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Dodge, Charles Wilson — *Stanley*
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Draize, John Henry — *Madison*
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Dressendorfer, Loren Henry — *Marshfield*
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Drewry, Charles Bemrose — *Marinette*
B.S., University of Wisconsin
Duff, James g
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Earhart, Franc Corrilla — *Hopkinton, Iowa*
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Johnson, Edward Wallace g — *Evansville*
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Johnson, Lawrence C. — *Mayville*
B.A., Lawrence College
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Johnson, Ruth S. — *Audubon, N. J.*
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B.A., Northwestern State Teachers College

McKissick, James Rion — *Columbia, S. C.*
B.A., South Carolina College
McKnight, Emma Marie — *South Wayne*
B.A., University of Wisconsin
McKown, F. Myrtle — *New Albany, Ind.*
B.A., Evansville College
McLaughlin, Willard Thomas g — *Helena, Mont.*
M.A., Dartmouth College
McMacken, Elden S. — *Mount Pleasant, Mich.*
B.A., Central State Teachers College
McPhillimey, Lee Ona Marguerita — *Ashland, Ill.*
B.A., Illinois College
Maas, Frank Albert — *Milwaukee*
Ph.B., University of Chicago
Maclin, Willis Franklin — *Brownsville, Tenn.*
B.A., Walden University
Madden, Elizabeth Andrews — *Ridgewood, N. J.*
B.M., University of Wisconsin
Madson, Willard H. g — *Canton, Minn.*
B.A., St. Olaf College
Maeder, Frederick Otto — *Sheboygan*
B.S., Pennsylvania State College
Magaro, Nicholas A. g — *Kenosha*
B.A., University of Wisconsin
Mandel, Susan Louise — *New York, N. Y.*
B.A., Hunter College
Manzer, Emerson William — *Beaver Dam*
B.S., University of Wisconsin
Maranville, Lorree M. — *Lewistown, Ill.*
B.A., Knox College
Marchand, Ernest L. — *Madison*
M.A., University of Washington
Marshall, Harold William — *Florence*
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Martin, Clynt — *Nappaanee, Ind.*
B.S., Ball State Teachers College
Martin, Lenore — *Haddonfield, N. J.*
B.S., University of Pennsylvania
Martin, Marjorie Ruth — *Wellington, Kans.*
B.A., University of Kansas
Martin, Mildred — *Haddonfield, N. J.*
B.S., University of Pennsylvania
Martinsen, Paul T. — *Berlin, N. H.*
B.A., St. Olaf College
Mason, Charlotte E. — *Mitchell, S. Dak.*
B.A., Dakota Wesleyan University
Mason, John Brown — *Indianapolis, Ind.*
B.A., Butler University
Massey, Wright Ford — *Barneveld*
Ph.B., University of Wisconsin
Mathison, Eva Ione — *Greenwood*
B.A., Ripon College
Matson, Mamie — *McPherson, Kans.*
B.S., South Dakota State College
Matteson, Stephen H. — *Sturgeon Bay*
B.S., University of Wisconsin
Mathison, Alice A. — *Weyerhauser*
B.A., Nebraska University
Maughan, J. Howard g — *Cedar City, Utah*
M.A., Utah Agricultural College

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M.S., University of Wisconsin
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B.A., Butler University
Meinecke, Addison Louis — *Milwaukee*
B.A., Forge College
Mellgren, Selma Evangeline — *Mankato, Minn.*
B.A., Gustavus Adolphus College
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Ph.B., University of Wisconsin
Merkel, Russell Stoneman — *Freeburg, Ill.*
B.Ed., Southern Illinois State Teachers College
Merritt, Harry E. — *Lodi*
Ph.B., University of Chicago
Merry, Harold Monroe — *Geneva, N. Y.*
B.A., University of Wisconsin
Metzner, Katherine Marie — *Wheeling, W. Va.*
B.A., Goucher College
Meyer, Roland Kenneth g — *Madison*
B.A., Milton College
Meyers, George Edwin — *Merrill*
B.Ed., Milwaukee State Teachers College
Mickle, Mildred Louise — *Huntington, W. Va.*
B.A., Marshall College
Miller, Amelia Catherine — *Phoenixville, Pa.*
B.A., Swarthmore College
Miller, Burton F. — *Coloma*
B.S., University of Wisconsin
Miller, Evelyn Lucretia — *Mount Pleasant, Pa.*
B.A., Beaver College
Miller, John Lester g — *Madison*
B.A., Penn College
Miller, Newton Barr — *Monmouth, Ill.*
B.S., Monmouth College
Minne, Nels — *Northfield, Minn.*
B.A., St. Olaf College
Minton, Arthur F. — *East Williston, N. Y.*
M.S., College of the City of New York
Mitchell, Philip Shirley — *Wittenberg*
B.A., Lawrence College
Mitchell, Rexford Samuel — *Neenah*
M.A., University of Chicago
Mitchell, William Roy — *Marshall, Mo.*
B.A., Lawrence College
Mohat, Haldor Ray g — *Jackson, Ohio*
B.S., Ohio University
Monier, Howard Brandon — *Berea, Ky.*
B.S., Pennsylvania State College
Monroe, Neva Marguerite — *Mannington, W. Va.*
B.A., West Virginia University
Montague, Peggy Wynona — *Port Arthur, Tex.*
B.S., Southern Methodist University
Moody, Illma Elizabeth — *Ansley, Nebr.*
B.A., Nebraska University
Mooney, Elizabeth Mary — *Pittsburgh, Pa.*
B.A., Seton Hill College
Mooney, Flora Clara Eunice — *Regina, Sask., Can.*
B.A., University of Toronto
Moore, Olive Marie — *Emporia, Kans.*
B.A., College of Emporia

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B.A., University of Oregon
Morgenroth, Edwin C. — *Kewaskum*
B.A., University of Wisconsin
Morris, Ellison — *Lancaster, Mo.*
B.S., University of Missouri
Morris, Vada J. — *Kansas City, Mo.*
B.S., University of Missouri
Morrison, Josephine Irene — *Pontiac, Ill.*
B.S., University of Wisconsin
Morrow, Inez Evelyn — *Hinsdale, Ill.*
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Mortenson, William P. — *Madison*
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Mott, Margaret Burling g — *Pittsburgh, Pa.*
B.A., Vassar College
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B.A., University of Texas
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B.A., Wabash College
Mueller, William Samuel — *Tower Hill, Ill.*
M.S., State University of New Jersey
Mullenbach, Katharine — *Chicago, Ill.*
B.A., University of Wisconsin
Munn, Kathleen Miriam — *Superior*
M.A., University of Wisconsin
Munn, Rose Leonice — *Superior*
M.A., University of Wisconsin
Munson, Edwin Clarence — *Madison*
B.A., Augustana College
Murphy, Leah Elizabeth — *Marion, Ind.*
B.A., Marion College
Murphy, Nelle — *Friend, Nebr.*
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Murray, Merrill Garver g — *Madison*
B.A., De Pauw University
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Nauman, Harold Llewellyn — *Milwaukee*
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B.A., Northland College
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Nelson, E. B. — *Milford, Iowa*
B.S., Iowa State College
Nelson, Elizabeth Olivia — *Red Wing, Minn.*
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Nelson, Glenn Henderson — *Bunker Hill, Ind.*
B.S., Marion College
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B.A., Milton College

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Nowak, Joseph Wencel — *Kewaunee*
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Omlor, Eugene Albin — *Collegeville, Ind.*
B.A., St. Joseph College

Onsgard, Henry Adolph — *Aberdeen, S. Dak.*
B.A., Luther College

Onsgard, Leonard M. — *Madison*
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B.S., University of Wisconsin

Osborne, Elizabeth — *Danville, Ind.*
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Osborne, Florence — *Danville, Ind.*
B.A., Earlham College

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Ph.B., University of Wisconsin

Owens, Charles Elmer — *Corvallis, Ore.*
M.A., Indiana University

Owens, Mary Alma i — *Mitchellsburg, Ky.*
B.A., University of Kentucky

Owens, Victor Worden — *Sharpsville, Ind.*
B.A., Central Normal College

Page, Arthur Rowland — *Whitewater*
B.A., Washburn College

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B.A., University of Wisconsin

Paget, Edwin Hugh — *Chicago, Ill.*
M.A., University of Pittsburgh

Palmenberg, Marion Elsa — *Penafly, N. J.*
B.A., Swarthmore College

Pancoast, Priscilla Ballinger — *Woodstown, N. J.*
B.S., University of Maryland

Parent, Charles William — *Florence*
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B.A., Wheaton College

Parkinson, George Ambrose — *Milwaukee*
B.S., Ohio State University

Parrish, Marjorie Marion — *Hopkinsville, Ky.*
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Partlo, Fay Lilford — *Houghton, Mich.*
B.S., Michigan College of Mining and Technology

Patchin, Sydney Allen — *Hibbing, Minn.*
M.A., University of Minnesota

Pate, Lawrence Tracy — *Bloomfield, Ind.*
B.A., Wabash College

Patel, Maganbhai Dahyabhai g — *Sojibra, India*
D. Ag., Poona Agricultural College

Patey, Phillippa Charles g — *Newtonville, Mass.*
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von Patter, Vernon Edward — *Superior*
B.S., Dakota Wesleyan University
Patterson, Ida V. R. — *Madison*
Ph.B., University of Chicago
Payne, Gertrude — *Danville, Ill.*
Ph.B., University of Chicago
Payne, Oenia Sanith — *New York, N. Y.*
B.A., University of Wisconsin
Pearson, Esther Lucile — *Amboy, Ind.*
B.A., Indiana University
Pease, Fidelia C. — *Richland Center*
B.S., University of Wisconsin
Peck, Adelbert William — *Wauwatosa*
B.A., Carroll College
Peck, Anna Browning — *Falmouth, Ky.*
M.A., University of Kentucky
Peck, Susen Kathryn — *Eaton, Ind.*
B.A., Ball Teachers College
Perbix, Norma Anne — *Markham, Ill.*
B.A., Illinois Woman's College
Perham, Beatrice Minerva — *Sparta*
M.A., University of Wisconsin
Perkins, Herbert Armand — *Hampton, Va.*
B.A., Colby College
Perry, Lillian — *Emporia, Kans.*
B.A., Friends University
Person, Philip Hilmore — *Madison*
M.A., University of Wisconsin
Peters, Donald Edward — *Neillsville*
Ph.B., University of Wisconsin
Peters, Reaves Edwin — *Kansas City, Mo.*
Ph.B., University of Wisconsin
Peterson, Alice Lillian — *Minneapolis, Minn.*
B.S., University of Minnesota
Peterson, Freda Al. — *Madison*
B.S., University of Wisconsin
Peterson, Harriet Evelyn — *Princeton, Ill.*
B.A., Northwestern University
Peterson, James H. g — *Osseo*
B.A., St. Olaf College
Peterson, Josephine Clark — *Grand Rapids, Mich.*
B.A., University of Cincinnati
Peterson, Julien C. — *DeKalb, Ill.*
B.E., Northern Illinois State Teachers College
Peterson, Wesley Rasmus — *Irene, S. Dak.*
M.S., University of Illinois
Petzing, Erwin Walter — *Chicago, Ill.*
B.S., Armour Institute
Pflughoeft, Henry Andrew — *Crookston, Minn.*
B.S., University of Wisconsin
Phemister, John — *Halifax, N. S.*
B.A., Glasgow University
Pheney, Agnes — *Everett, Wash.*
B.A., University of Iowa
Phillips, Paul H. g — *Madison*
B.S., State College of Washington
Phillips, Ruth Eleanor — *Seymour, Iowa*
B.A., Simpson College

Pickard, Alice Marie — *Green Bay*
B.A., University of Wisconsin
Pierce, Adolph K. — *West Allis*
B.S., University of Minnesota
Pierson, Cohen G. — *Greencastle, Ind.*
B.A., DePauw University
Pilger, Martha — *Ripon*
B.A., Ripon College
Pitcairn, Sarah Eleanor — *Tarentum, Pa.*
B.A., Wilson College
Pixley, George G. — *Centralia, Ill.*
B.A., Oberlin College
Platz, Mabel Beulah — *Yates Center, Kans.*
M.A., University of California
Pohle, Helen Londora — *Madison*
B.A., University of Wisconsin
Pohle, Marguerite Ruth — *Madison*
M.A., University of Wisconsin
Polk, Forrest Raymond g — *Madison*
B.S., Purdue University
Pollard, Harry Strange — *Oxford, Ohio*
M.S., University of Iowa
Polson, Robert Arnold — *Montesano, Wash.*
B.S., University of Wisconsin
Porter, Margaret Jeanette — *Cedar Falls, Iowa*
B.A., Iowa State Teachers College
Pott, Naomi Louise — *Cape Girardeau, Mo.*
B.S., Missouri State Teachers College
Potter, Mary A. g — *Lake Mills*
B.A., Lawrence College
Powell, Ellis Clark — *Macy, Ind.*
B.A., Manchester College
Powell, Harley John g — *Coloma*
B.A., University of Iowa
Prendergast, Clare Mary — *Dubuque, Iowa*
B.A., Clarke College
Prendergast, Elizabeth Anne g — *Madison*
B.A., University of Wisconsin
Price, Ferdinand Theodore — *Portage*
B.S., University of Wisconsin
Prill, Edward Albert g — *Ripon*
B.A., Ripon College
Pringle, Jeffie D. — *Marlin, Tex.*
M.A., Texas Christian University
Pritzl, Peter Philip g — *West De Pere*
B.A., St. Norbert College
Prosser, Edna Jean — *Philadelphia, Pa.*
B.A., Swarthmore College
Pruess, Louis Martin g — *Milwaukee*
M.S., University of Wisconsin
Pryor, Mary Emily — *Mexico, Mo.*
B.S., University of Missouri
Purcell, Margaret R. g — *Madison*
B.A., University of Wisconsin
Purnell, William Henry — *Madison*
B.A., University of Wisconsin
Rabjohns, Aileen Agnes — *Jacksonville, Ill.*
B.A., Illinois Woman's College
Raddatz, Merlin Alfred — *DeKalb, Ill.*
B.A., North Central College

Raddatz, Sadie Victoria — *DeKalb, Ill.*
B.S., North Central College

Ralya, Lynn Louis g — *Beloit*
B.S., Michigan State University

Randall, Clarence Coke — *Little Rock, Ark.*
B.S., Mississippi Agricultural and Mechanical College

Rankin, Ruth Estelle g — *Pewaukee*
B.A., Carroll College

Rapp, Earl William — *Carlisle, Ind.*
B.A., Central Normal College

Rapp, Mildred Vera Cooper — *Carlisle, Ind.*
B.S., Purdue University

Rasmussen, Carrie g — *Madison*
B.A., University of Wisconsin

Rasmussen, Oyvind S. — *Stoughton*
Ph.B., Ripon College

Ray, Lawrence Peers g — *Rockford, Ill.*
B.S., Beloit College

Ray, Wilbert Scott g — *Madison*
B.A., Washington and Jefferson College

Rees, Thomas S. — *Racine*
B.S., Stout Institute

Reik, Elsie I. — *Milwaukee*
B.S., Northwestern University

Reilly, Thomas Lawrence — *Green Bay*
B.S., Stout Institute

Reimer, Beatrice Adeline — *Cleveland, Ohio*
B.S., Western Reserve University

Reppen, Nels Oliver — *Madison*
B.A., University of Wisconsin

Reynolds, Eleanor Louise — *Madison*
B.A., University of Wisconsin

Rhodes, Joseph William — *Reeseville*
B.E., Milwaukee State Teachers College

Richards, Clifford Howard — *Monroeville, Ind.*
B.A., Indiana University

Richardson, Harold Davis — *La Crosse*
Ph.B., University of Wisconsin

Richmond, Eleanor — *Memphis, Tenn.*
B.A., Southwestern University

Richmond, Gottlieb DeArmond — *Emporia, Kans.*
B.S., Kansas State Teachers College

Ricker, Arva I. — *Bridgeport, Ill.*
B.A., Indiana University

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B.S., Purdue University

Ridinger, Martha — *Cleveland, Ohio*
B.A., Western Reserve University

Rieman, Gustav H. — *Faribault, Minn.*
B.S., Iowa State University

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M.A., University of Wisconsin

Righino, John A. — *West De Pere*
B.A., St. Norbert College

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B.S., Waynesburg College

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B.A., West Virginia Wesleyan College

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B.A., University of Wisconsin

Robinson, Frances — *Huntsville, Mo.*
B.S., Missouri University
Robinson, Owen Long — *Wonewoc*
B.A., DePauw University
Roblee, Mildred Mary — *Springfield, Mo.*
B.A., Drury College
Roche, Benjamin Hamilton g — *Madison*
B.S., University of Maryland
Rogan, Margaret Pieh — *Madison*
B.S., University of Wisconsin
Rogers, Mabel Jane — *Akron, Ohio*
M.A., Western Reserve University
Rohrabaugh, J. Henry — *Summersville, W. Va.*
B.S., Davis and Elkins College
Roland, Stanley Willard — *Rockford, Ill.*
B.S., University of Wisconsin
Rolfe, Victor Stanley — *Muskegon, Mich.*
B.A., Western State Normal College
Roll, Grover — *Terre Haute, Ind.*
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Rolland, Marius — *Thief River Falls, Minn.*
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Roncke, Genevieve — *Milwaukee*
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Rose, Forrest Hobart — *Parkville, Mo.*
M.A., Ohio Wesleyan University
Rose, John Kerr — *Emden, Ill.*
B.A., Indiana University
Roseman, William P. — *Whitewater*
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Rosenbaum, Chester Karl g — *Fond du Lac*
B.A., Ripon College
Rosenberg, Alice Fayette — *St. Paul, Minn.*
B.A., Beloit College
Rosenheimer, Ralph M. — *Kewaskum*
M.A., University of Wisconsin
Rosentreter, Frederick William — *Manitowoc*
B.A., University of Wisconsin
Rost, Grover Frederick — *Axtell, Nebr.*
B.A., Kearney Teachers College
Rothrock, Lewis Frederick — *New Bloomfield, Pa.*
B.S., Pennsylvania State College
Rottenstein, Vilma — *Toledo, Ohio*
B.A., Oberlin College
Rowe, Grace Irene — *Smithsburg, Md.*
B.A., Bridgewater College
Rowe, Thoburn David — *Wauwatosa*
B.A., University of Wisconsin
Royce, Katherine Elizabeth — *Platteville*
B.S., University of Wisconsin
Ruch, Barbara Marie — *Fond du Lac*
B.A., Lawrence College
Rude, Dora Marie — *Dodgeville*
B.S., University of Wisconsin
Rudisill, Mabel Florence g — *Crouse, N. C.*
B.A., North Carolina College for Women
Rummele, Ruth Elizabeth — *Sheboygan*
B.A., University of Wisconsin

Rupel, I. Walker g — *Madison*
M.S., University of Wisconsin
Rutherford, Elmer Virgil — *Noblesville, Ind.*
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Sandford, Robert Marcellus — *Winfield, Kans.*
B.A., Southwestern University
Sando, Merlin Hossler — *Gettysburg, Ohio*
B.S., Miami University
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B.A., Simpson School
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B.A., University of Wisconsin
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B.S., Beloit College
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B.A., Hood College
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B.A., Goucher College
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Schermerhorn, Eva Mildred — *Kennedy, N. Y.*
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B.A., Nebraska University
Schneck, Erna Hulda — *Milbank, S. Dak.*
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Schneider, Frieda D. P. — *Milwaukee*
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B.A., University of Kentucky

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B.S., University of Wisconsin
Sister Alexandrine Cavanaugh — *River Forest, Ill.*
B.A., University of Wisconsin
Sister Mary Bonaventure Harrington — *Sinsinawa*
B.A., Rosary College
Sister Mary Charity Holland — *Sinsinawa*
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Sister Rose Elizabeth Harican — *Notre Dame, Ind.*
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Sister Mary Eva McCarty — *River Forest, Ill.*
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Sister Mary Joseph Quaid — *New Orleans, La.*
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Sister Marie Picta Scott — *Notre Dame, Ind.*
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B.A., University of Wisconsin
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B.A., Northwestern College
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B.S., University of Wisconsin
Skewes, George Jessop g — *Appleton*
B.A., Lawrence College
Skinner, Margaret Miron g — *Madison*
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Smith, Carlton Wilbur — *Superior*
B.A., University of Minnesota
Smith, Charles Albert — *Bowling Green, Ind.*
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Smith, Clara Imogene — *Jacksonville, Ill.*
B.A., Illinois College
Smith, Cornelius Walter g — *Madison*
B.A., University of Wisconsin
Smith, Dwight Harris — *Flint, Mich.*
B.S., East Central State Normal
Smith, Frances Laing — *Des Moines*
B.A., University of Wisconsin
Smith, Gladys Hawkins — *Mount Sidney, Va.*
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Smith, Guy Neese — *Rockford, Ill.*
B.S., Northwestern University
Smith, Marion W. — *Appleton*
B.S., Kansas State Teachers College
Smith, Paul W. — *Sedalia, Mo.*
M.S., University of Tennessee
Smith, Robert Lewis — *Danville, Ky.*
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Smith, Ray Edgar — *La Crosse*
B.S., Stout Institute
Snow, Marietta — *Lincoln, Nebr.*
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M.A., University of Wisconsin
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Staley, Ruth g — *Madison*
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Whitworth, Eugene G. — *Middleton, Ind.*
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Wilson, Perry William g — *Terre Haute, Ind.*
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Wood, Chester William — *Mankato, Minn.*
B.S., Huron College
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B.A., University of, Illinois
Wood, Lewis Hungerford — *Sioux City, Iowa*
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Wood, Majil Williams — *Elkins, W. Va.*
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Woodard, Mary Lucile — *Owosso, Mich.*
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Woodworth, R. B. Evan — *Fond du Lac*
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B.S., University of Wisconsin
Wright, Ernest Baskin — *University, Ala.*
B.A., University of Alabama
Wright, George Harry — *Huntington, W. Va.*
B.A., Marshall College
Wright, Ianthus — *Hinckley, Utah*
B.S., Utah Agricultural College
Wright, Verne Colson — *Wadena, Minn.*
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B.A., Wheaton College
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M.S., National Southeastern University
Young, Newton Clifford — *Jackson, Miss.*
B.S., Millsaps College

Younger, George W. B.A., Lawrence College	*Brandon*
Yunker, Edwin A. B.A., University of California	*Corvallis, Ore.*
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Zartman, Walter Hammond g B.S., University of Illinois	*Galveston, Ind.*
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Abbas, Ralph Henry	*Forreston, Ill.*
Abrams, Fenton Neale a	*Mount Hope*
Acker, Franklin Theodore	*Anderson, S. C.*
Ackerman, Edna Clara	*Oshkosh*
Ackerman, Marguerite Helen	*Oshkosh*
Ackman, Harvey L. ls	*Union, Ill.*
Adam, George H. e	*Madison*
Adams, Esther Vivian	*Eleva*
Adams, Henry Mason	*Fall River*
Adams, Jane	*Chicago, Ill.*
Adams, Lulu Ph.B.	*Mount Hope*
Adams, Margaret Ban	*Chicago, Ill.*
Adams, Minnie Frances	*South Bend, Ind.*
Adams, Rachael Jane	*Erie, Pa.*
Adams, Rex Verrel	*Eleva*
Adgate, George	*Wheaton, Ill.*
Adlerblum, Sadie Adrienne	*Chicago, Ill.*
Ahern, Clinton James, Jr.	*Dwight, Ill.*
Ahern, Ellen Gertrude ls	*Madison*
Ahern, Margaret Loretta	*Madison*
Ahrens, Dorothy May	*Milwaukee*
Ahrens, Eleanor Grace ls	*Madison*
Ainsworth, Margaret Hart ls	*Madison*
Ainsworth, Roy Chapman ls m	*Madison*
Akelaitis, Anele	*Pittsburgh, Pa.*
Albert, Gordon George	*Neenah*
Alberth, Charlotte Julia ls	*Walworth*
Albin, Martha Jo B.A.	*Paris, Ill.*
Albrecht, Dorothy Elizabeth	*Milwaukee*
Albright, Arthur Cartwright	*Chicago, Ill.*
Albright, M. Louise	*Washington, D. C.*
Alden, Marguerite B.A.	*Roslyn Heights, N. Y.*
Aldrich, Ardelle Baker	*Elmhurst, Ill.*
Aldridge, Ruth Lavonne B.A.	*Fremont, Iowa*
Alexander, Cecile B.S.	*Schenectady, N. Y.*
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Alexinas, Mildred Margaret	*Madison*

Allee, Dorothy Weller B.S.	*Bainbridge, Ind.*
Allee, Kenneth Oral B.A.	*Bainbridge, Ind.*
Alleman, Clarence Conrad	*Luck*
Alleman, Lillian Ruth	*Luck*
Allen, Bess	*Detoit, Mich.*
Allen, Georgia Florence	*Belleville*
Allen, Florence Eliza Ph.D. g	*Madison*
Allen, Irma Fay	*Rockford, Ill.*
Allen, Marjorie	*Milwaukee*
Allen, Robert Frederick	*Mendota, Ill.*
Almond, Rosalind Elson	*Chicago, Ill.*
Almy, Shirley D.	*Madison*
Altland, Gladys Mae	*Detroit, Mich.*
Alton, Beryl B.S.	*Kansas City, Mo.*
Altsheler, Eliza	*Louisville, Ky.*
Alvis, Marion	*New Orleans, La.*
Amacker, Jack	*Stanley*
Amundsen, Bernard Rolf	*Stoughton*
Amundson, Robert A. a	*Madison*
Amundson, William Robert ls	*Stoughton*
Amy, Abby Louise	*Cleveland, Ohio*
Anasis, Stephen ls	*Madison*
Anderson, Elinor Cecilia	*New Auburn*
Anderson, Agnes Victoria	*La Porte, Ind.*
Anderson, Alice Johanna	*Madison*
Anderson, Alice Mary ls	*Black River Falls*
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Anderson, Arnold Clarence	*Madison*
Anderson, Arthur Bernhard g	*North Fond du Lac*
Anderson, Edna Bernice	*Two Rivers*
Anderson, Elda E. M.A.	*Green Lake*
Anderson, Eleanor Jefferson a	*Milwaukee*
Anderson, Esther Mabel ls	*Mountain*
Anderson, Florence Alvera	*Hibbing, Minn.*
Anderson, Gilbert W.	*Viroqua*
Anderson, Irene Isadora	*Dresser Junction*
Anderson, Iris C. B.A.	*Linn Grove, Iowa*
Anderson, Isabelle J.	*Dodgeville*
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Anderson, Lila Evelyn	*St. Joseph, Mich.*
Anderson, Mabel Amelia	*Stoughton*
Anderson, Mabel Ruth	*Rockford, Ill.*
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Anderson, Ruth Cordelia	*Americus, Kans.*
Anderson, William Victor	*Chippewa Falls*
Andreasen, John C. L. ls	*Menomonie*
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Angell, Della May	*LaPorte, Ind.*
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Arbuckle, Jennie	*Marble, Minn.*
Archer, Maurice Clifford B.A.	*Columbus, Ohio.*
Arkin, Dorothy Norma	*Chicago, Ill.*
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Armstrong, Emma Kate B.A.	*Clyde, Kans.*

Armstrong, Henry Morrison	*Norman, Okla.*
Armstrong, J. Harold	*Madison*
Armstrong, Katharine Moxeley	*Shelbyville, Ky.*
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Arnold, Martha Gilmore	*Duluth, Minn.*
Arnold, Patricia Katherine ls	*Duluth, Minn.*
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Asbury, Katherine Taylor	*Augusta, Ky.*
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Assenheimer, Paula Martha	*Cudahy*
Aston, Helen Mardele B.S.	*Middletown, Mo.*
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Atkinson, Ethel Leone	*Toledo, Ohio*
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Atwell, Charles Richard ls	*Fort Dodge, Iowa*
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Austerud, Stella M. ls	*Martell*
Austin, Mrs. R. L.	*Eudora, Ark.*
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Bahrisch, Helen Rose	*Lakewood, Ohio*
Bailey, Eleanor Robertson B.A.	*Clarion, Pa.*
Bailey, Fred Nelson	*Madison*
Bailey, Theodore B.	*Washington, Iowa*
Baird, Mary Evelyn	*Evansville*
Baker, Beatrice Ann ls	*Goodman*
Baker, Billie Iline B.A.	*Wills Point, Texas*
Baker, June ls	*Madison*
Baker, Lucy Anna	*Whitewater*
Baker, Marian	*Cleveland, Ohio*
Bakken, Agnes	*Duluth, Minn.*
Balch, Margaret Elizabeth	*Madison*
Baldi, Temple August	*Cleveland, Ohio*
Baldwin, Elizabeth ls	*Evansville*
Baldwin, Mary B.A.	*Westfield, Ind.*
Balgie, Norma Anna	*Kaukauna*
Ball, Martha Lorraine B.A.	*Montgomery City, Mo.*
Ballinger, Clarice	*Racine*
Balzer, Eleanore Mari	*Milwaukee*
Bangert, Allan Poe	*Chicago, Ill.*
Bangs, Florence Estelle ls	*Spencerport, N. Y.*
Bangsberg, Josephine	*La Crosse*
Banks, Charles T. e	*Jefferson*
Baranowski, Rose Marie	*Oshkosh*
Barber, Helen T.	*Freeport, Ill.*
Bareis, Alma Marie	*Platteville*
Barger, Panzy Louise M.A.	*Westboro, Mo.*

Barlow, Rosita	*Loredo, Tex.*
Barnard, Helen Dorothy ls	*Chicago, Ill.*
Barnette, Margaret Elizabeth	*Kansas City, Mo.*
Barnette, Marian A.	*Chicago, Ill.*
Barney, Robert M. ls	*Sparta*
Barnhart, Genevieve Dorothy	*Cleveland, Ohio*
Baron, Pearl Kirk	*Zanesville, Ohio*
Baron, William Kirkpatrick	*Zanesville, Ohio*
Barr, Catherine B.A.	*Urbana, Ill.*
Barr, Joseph Beauford	*Madison*
Barr, Mildred H. B.S.	*Bellevue, Pa.*
Barrett, Dorothy Clare B.A.	*Merrill*
Barrett, Irene Genevieve	*Chicago, Ill.*
Barrett, Virginia	*Sayre, Pa.*
Barron, Helen Susan B.A.	*St. Louis, Ill.*
Barron, Lucile Dillard	*Memphis, Tenn.*
Barron, Mae Kathryn	*Camp Douglas*
Barry, Beatrice Irene	*Steubenville, Ohio*
Barry, Bertha M.	*Hancock, Mich.*
Barry, Kathryn Sybilla B.A.	*Oxford, Pa.*
Barry, Mildred Joan ls	*Madison*
Bartel, George John	*Two Rivers*
Bartel, Helen Marguerite ls	*Milwaukee*
Bartelt, Allen Donald e	*Milwaukee*
Bartelt, Marjorie W.	*Beloit*
Bartholomew, Cecelia H.	*Big Bend*
Bartholomew, Kenneth ls	*Dayton, Ohio*
Bartholomew, Ruth Elizabeth	*Big Bend*
Bartlett, Elizabeth Watson ls	*Drummond*
Bartlett, Helen Cox	*Greenwood, Ind.*
Bartlett, Ward Kenneth B.A.	*Greenwood, Ind.*
Bartness, Adolph Conrad a	*Rice Lake*
Barton, Carrie R. ls	*Madison*
Barton, Clare Auer	*Durand*
Barton, Edith G. ls	*Madison*
Barton, Gertrude Lois	*Pratt, Kans.*
Barton, Harold Edward	*Madison*
Barwasser, Norbert Clement B.A. gm	*Chicago, Ill.*
Batterton, Robert	*San Diego, Calif.*
Battey, Ruth Osborne B.S.	*Haverford, Pa.*
Batutis, Anna	*Rockford, Ill.*
Batz, Prisca Barbara	*Sun Prairie*
Batz, Regina M.	*Sun Prairie*
Bauer, Charles E. ls	*Mitchell, S. Dak.*
Bauman, Howard Albert	*Milwaukee*
Baumann, Carl August g	*Milwaukee*
Baumann, Fred William g l	*Racine*
Baumann, Ursula Kay ls	*Racine*
Baumgarten, Mary Elizabeth	*New Orleans, La.*
Baumgartner, Arnold J. e	*Boscobel*
Baumgartner, Maxine A. ls	*Monroe*
Bautz, Mabel Elsie	*Durbin, N. Dak.*
Bayman, Dora Rose	*Benton Harbor, Mich.*
Bazelon, David Lionel	*Milwaukee*
Bean, Adella Emma ls	*Erie, Pa.*
Beardmore, Mildred a	*Oshkosh*
Beasley, Claude N. B.Ped.	*Pierpont, Ohio*
Beatty, Thomas Douglas ls	*Madison*
Beaver, Ella Theodora	*Kassan, Minn.*
Becher, Elmer Frederic	*Milwaukee*
Beck, Ruth Rosalie, B.A.	*Litchfield, Ill.*

Beckmire, Louis Edward ls	*Freeport, Ill.*
Beckwith, Ellen Hatch	*Madison*
Beebe, Edmer ls m	*Bayfield*
Beecher, Gilbert ls	*Kenosha*
Beecroft, Lillian Jane	*Madison*
Behr, Sam ls	*Rockford, Ill.*
Behrend, Beartha Elizabeth	*Madison*
Behrend, Jeanette Helaine	*Milwaukee*
Beineman, Wilma Augusta	*Sheboygan*
Beirne, Aileen Margaret	*Cincinnati, Ohio*
Beitler, Edna Vera	*Boscobel*
Beitler, Lola Cora ls	*Boscobel*
Belinson, Louis	*Lynbrook, N. Y.*
Belk, Irma Hazlett B.S.	*Henry, S. Dak.*
Bell, Anne Ellen ls	*Madison*
Bell, John Stephen e	*Madison*
Bell, Mildred Mary	*Shullsburg*
Bender, Bessie Mildred B.S.	*Ebenezer, N. Y.*
Benkert, Clara	*Monroe*
Benkert, Mae F.	*Monroe*
Benn, Vernard A. ls m	*Medford*
Bennett, Frances Lenore	*Stoughton*
Bennett, Gertrude	*Toledo, Ohio*
Bennett, Ruth Lillian	*Bonifio, Mich.*
Benson, Homer R. ls	*Richland Center*
Bentson, Edna K.	*Wausaukee*
Bentson, Selma E.	*Wausaukee*
Beran, John B.A.	*Muscoda*
Berardi, Louis Castan	*Kenosha*
Berdie, Helene Rae	*Milwaukee*
Berg, Hanna S.	*Rush City, Minn.*
Berg, Marie B. K.	*Ashland*
Berge, Agnes Thelma	*Deerfield*
Bergene, Ruth N.	*Dallas*
Berger, Adele A.	*Chicago, Ill.*
Berger, Clara Blanche	*Murphysboro, Ill.*
Berger, Lee M.	*Philadelphia, Pa.*
Berget, Elise A.	*Argyle*
Bergstedt, Dorothy Alice B.A.	*Moline, Ill.*
Berner, Irma Elizabeth	*Antigo*
Bernstein, Jerome Joseph ls	*Niagara Falls, N. Y.*
Berr, Alfred Harold, Jr. B.A.	*Cleveland, Ohio*
Bershad, Alfred	*Brooklyn, N. Y.*
Besecker, Lester Dean	*Laura, Ohio*
Besecker, Treva Merle, Mrs.	*Laura, Ohio*
Betts, R. Leland	*Lake Geneva*
Betz, Barbara Jean	*Boscobel*
Bevan, Irene	*Chicago, Ill.*
Beyer, Hannie	*Milwaukee*
Beynon, Lizzie Hephzibah M.S.	*Lincoln, Neb.*
Biba, Cherry A. ls	*Muscoda*
Bickler, Peter	*Milwaukee*
Bickner, Ruth Agnes	*Chicago, Ill.*
Biddick, Eugene Harlan	*Argonne*
Biddick, Lois A.	*Livingston*
Biddick, Roxy M.	*Livingston*
Biebesheimer, John Ken	*Milwaukee*
Biehl, Robert Gregory	*Prairie du Chien*
Bielefeld, Richard H. E.	*Milwaukee*
Bier, John Henry	*Madison*
Billings, Leonard Noble	*West Allis*

Bills, George Edwards ls	*Oshkosh*
Bindley, William F.	*Terre Haute, Ind.*
Bingham, Pauline Grace B.A.	*Belle Plaine, Kans.*
Binish, Stanley Edward, Jr.	*Green Bay*
Bird, Helen Amelia M.A.	*Bloomington, Ill.*
Birge, Ruth	*Centralia, Ill.*
Birkenstein, Marion Jane	*Chicago, Ill.*
Birkle, William Wilson	*Sheboygan*
Birmingham, Mabel Marie	*Berwyn, Ill.*
Birnbaum, William R. ls m	*La Crosse*
Birney, Jeannette	*Cairo, Ill.*
Bishop, Harold Francis ls m	*Madison*
Bishop, Harry Arthur E.	*Bloomington*
Bishop, June Amanda B.S.	*Emporia, Kans.*
Bishop, Ruby Olivia	*Dalton*
Bishop, Virginia May	*Madison*
Bivins, Gail	*Amarillo, Tex.*
Black, Howard ls	*Eau Claire*
Blackman, Ora Agnes	*Beaumont, Tex.*
Blackmun, Robert Lynwood	*Chicago, Ill.*
Blackwell, Mary Anna ls	*Omaha, Nebr.*
Blado, Ernest Alfred	*Wilton*
Blain, Velma Dorothea	*Greenview, Ill.*
Blair, Mildred	*Salem, Ill.*
Blake, Mary Eleanor	*Oklahoma City, Okla.*
Blanchard, Harold J.	*Albany, Ill.*
Blanchard, Lina Emily	*Columbus*
Blanchard, Porter Bevan ls m	*Madison*
Blankenagel, Ida Louise	*Milwaukee*
Blatchley, Teresa Grace	*Newton, Kans.*
Bleakley, Ella Claire	*La Crosse*
Blevans, Alice Card	*Kansas City, Mo.*
Blewett, Edwin J.	*Sparta*
Bloom, Anna Alberta	*Chicago, Ill.*
Bloom, Mary Rose ls	*Beloit*
Bloss, Florence Elizabeth	*Salem*
Bloss, Truman George ls	*Fox Lake*
Bluemel, Walter Joseph ls	*Wauwatosa*
Blum, Benjamin B. ls m	*Monroe*
Board, Fred Worth	*Kansas City, Mo.*
Boardman, Mary ls	*Lowell, Mass.*
Bobb, Thomas Newton B.A.	*Ashland*
Boebel, Theodore H.	*Sun Prairie*
Boedeker, Carol S. B.A.	*Webster Groves, Mo.*
Boehler, Herbert Henry	*Bellevue, Ohio*
Boese, Arvilla Iva	*Fort Atkinson*
Boesel, Charles Manegold ls	*Milwaukee*
Boesel, Marianna	*Milwaukee*
Boetcker, Hattie Martha	*Madison*
Boettcher, Doris Marie	*Milwaukee*
Bogda, Valeria	*Milwaukee*
Bolar, Roxie D.	*Bethany, Mo.*
Bollard, Elva Mabel	*Fennimore*
Bolton, Louise E.	*Racine*
Bonner, Nelson A. B.S.	*Beaver Dam*
Bonnet, Murl Irene	*Harvel, Ill.*
Booher, John Alexander m	*Madison*
Booher, Lucile	*Connersville, Ind.*
Boone, Faye Nelson	*Carlisle, Ind.*
Boots, Paul Heath ls	*Briggsville*
Bordeaux, Josephine H. ls	*Muskegon, Mich.*

Boren, Helen B.A.	*Chicago, Ill.*
Borgeson, Alice Victoria	*Chicago, Ill.*
Born, Margaret Frances	*Oak Park, Ill.*
Born, Robert Charles ls	*Fond du Lac*
Borner, J. E. B.S.	*Rockford, Ill.*
Borrowman, Dorothy	*Evanston, Ill.*
Borrud, Bertram M. e	*Stoughton*
Borwell, Laura B.	*Madison*
Bos, Myron B.S.	*Oskaloosa, Iowa*
Boschini, Augusta C. M.A.	*Madison*
Bosstick, Viva McCord B.A.	*Danville, Ind.*
Bost, Mildred Margaret	*Homestead, Pa.*
Bostwick, John Richards ls	*Port Washington*
Botham, Dorsey L.	*Madison*
Botts, Christine ls	*Madison*
Bound, Thelma Geneva	*Plainfield*
Bowen, Betty Katherine ls	*Cadillac, Mich.*
Bower, Melissa	*Beloit*
Bowers, Claire F. ls	*Oak Park, Ill.*
Bowman, Gladys Madeline	*St. Louis, Mo.*
Boxell, Vera Delores	*Marion, Indiana*
Boy, Frank Ernest	*Madison*
Boyd, Clara Helen	*Erie, Pa.*
Boyer, Sam H., Jr.	*Duluth, Minn.*
Boyer, Zula Ellen B.A.	*Reddick, Ill.*
Boyle, Gertrude	*Mauston*
Brach, Henry G.	*Waterford*
Brackin, Lorene D.	*River Falls*
Bradford, Gladys B.A.	*Lawrence, Kans.*
Bradley, Harold Cornelius, Jr.	*Madison*
Bradley, James Andre ls m	*Madison*
Brady, Tullius ls	*Brookhaven, Miss.*
Bragg, Nadine B.A.	*Cameron, Tex.*
Brander, Amye B.	*Spring Green*
Brandt, Ralph A.	*Galesburg, Ill.*
Branton, James Ernest	*La Valle*
Bratten, Paul Clifton	*Dayton, Ohio*
Bratz, Bernice G. a	*Weyauwega*
Braudt, Lucille Georgette ls	*Plainview, Tex.*
Brault, Delphos B. ls	*Two Rivers*
Brauminger, Grace B.S.	*Trenton, N. J.*
Braun, Emma Otillia	*Pittsburgh, Pa.*
Brayton, Potter B.	*Madison*
Brecke, Lorraine Mary ls	*Kenosha*
Breckinridge, Margaret Prevost	*New Orleans, La.*
Bremer, Helen Elizabeth	*Milwaukee*
Bremner, James Xavier	*Chicago, Ill.*
Bresee, Asenath Jewell	*Madison*
Bresnahan, Anna	*Lanesboro, Minn.*
Brevig, Olga Constance	*Granite Falls, Minn.*
Brewer, Frances Fethers B.S.	*Columbia, Mo.*
Brewer, Frank Aldis	*Alexandria, La.*
Brewer, Gordon Willis e	*Madison*
Briese, Floyd Otto	*Appleton*
von Briesen, Martha	*Milwaukee*
Briggs, Katherine	*Oak Park, Ill.*
Brighenti, Josephine Adelaide	*Ramsay, Mich.*
Brill, Daniel S. ls	*Eau Claire*
Brinkman, Genevieve Amanda	*Sheboygan*
Bromer, Dorothy E.	*Charlotte, N. C.*
Brookbank, Virginia Clark	*Indianapolis, Ind.*

Brooke, Irene	*Madison*
Brookins, Mary B.A.	*Laketon, Ind.*
Brookmire, Emma Frances ls	*Marinette*
Brooks, George Freeman	*Chicago, Ill.*
Brooks, Louis Henry	*Cleveland Heights, Ohio*
Brooks, Sylvia Magdalene	*Wauwautosa*
Brossman, Emily Dean B.A.	*Indianapolis, Ind.*
Brossman, Mary Edith	*Indianapolis, Ind.*
Brotz, Roman C. e	*Kohler*
Brown, Albert Willard M.S.	*Oshkosh*
Brown, Allen G. Ph.M.	*Manawa*
Brown, Beatrice Ann	*New London, Ohio*
Brown, Bernice Mabel ls	*Madison*
Brown, Bessie Ph.B.	*Racine*
Brown, Mrs. De Forest	*Bloomington*
Brown, Dorothy Margaret ls	*Mount Horeb*
Brown, Gwendolyn M.A.	*Madison*
Brown, Harwin Joseph ls m	*Madison*
Brown, Lewie	*New London, Ohio*
Brown, May Lucille	*Kansas City, Mo.*
Brownagle, Chester Jacob	*Harrisburg, Pa.*
Brubaker, Etta	*Wilkinsburg, Pa.*
Bruce, Georgia Marie	*Kansas City, Mo.*
Bruce, Lillian Linne	*Marinette*
Bruins, Rose Wagner M.A.	*Green Bay*
Brumbaugh, Joseph John B.A.	*Canton, Ohio*
Brumbaugh, Louise Alice M.A.	*Fort Wayne, Ind.*
Brundage, Harriet	*Weehawken, N. J.*
Brunell, Opal	*St. Anne, Ill.*
Brunkow, Benjamin Henry ls m	*Monroe*
Bryant, Marian Amelia	*Cushing, Okla.*
Bubbert, Walter G. a	*Milwaukee*
Buboltz, William Frank	*West Allis*
Buchan, Margaret Elizabeth ls	*Milwaukee*
Buchanan, Orrin Reed e	*Viroqua*
Buck, Louise Dorothy	*Neenah*
Buckeridge, Charles Rex	*Sheboygan*
Buckland, Charlotte Boughton B.A.	*Jacksonville, Fla.*
Buckley, Bernice Barrie B.A.	*Canonsburg, Pa.*
Buckmaster, Gilbert George ls	*Boscobel*
Budd, John Marshall	*St. Paul, Minn.*
Budlong, Thomas H. ls	*Chicago, Ill.*
Buehling, Margaret Dorothy	*Chicago, Ill.*
Buell, Francis Charles a	*Sun Prairie*
Buending, Clarence W. e	*Fort Atkinson*
Bufkin, Lindley L.	*Runnels, Iowa*
Bull, Marcia Jane	*Cleveland, Ohio*
Bunda, Mary Rebecca	*Baileys Harbor*
Burbank, Virginia Katherine	*Bethesda, Md.*
Burcalow, Frank V. a	*Monroe*
Burch, Kenneth Clayton	*Madison*
Burchfield, Mary Marguerite	*Tarentum, Pa.*
Burdon, Stanley James ls	*Bloomington*
Burg, Mabel Sophia	*Scottville, Mich.*
Burger, Stanley John	*Chicago, Ill.*
Burgeson, Maurice Leland	*Madison*
Burkit, Catherine G.	*Monroe, Mich.*
Burlingame, Merla Fay	*Gary, Ind.*
Burney, Mary Vick ls	*Martin, Tenn.*
Burns, Alice Loretta	*Chicago, Ill.*
Burns, Sarah Fitzhugh	*Los Angeles, Cal.*

Burton, Berenice B.A.	*Richmond, Ind.*
Busby, Betty Josephine	*Quincy, Ill.*
Bush, Mary Gertrude	*Lima, Ohio*
Bushner, Yetta	*Detroit, Mich.*
Buswell, Virginia Moreland a	*Oak Park, Ill.*
Bute, Anne M. B.S.	*Aurora, Nebr.*
Butler, Alice Mary	*Chicago, Ill.*
Butler, Anne Wendt B.A.	*Amarillo, Tex.*
Butler, Graham Charles	*Janesville*
Butler, Helen May	*Huntley, Ill.*
Byers, Izetta Marie	*Barnum*
Byman, Edith	*Chicago, Ill.*
Byrne, Regina Margaret	*Chicago, Ill.*
Byrnes, Chester Henry	*East Troy*
Cable, Chester Hubbard B.A. g	*Monmouth, Ill.*
Cadwell, Belle Bye	*Madison*
Cady, Mary Edith	*Toledo, Ohio*
Caflisch, Margery E.	*Baraboo*
Cagley, Marie D.	*Kokomo, Ind.*
Cahill, Marie Catherine	*Eau Claire*
Cairo, Eugene ls	*Racine*
Calder, Grace J. M.A.	*Chippewa Falls*
Caldwell, Donald M. ls m	*Rio*
Caldwell, Mary Isabel ls	*Madison*
Calkins, Leora Olive	*Shawano*
Callahan, Loretto Josephine	*Chicago, Ill.*
Callanan, Mary H.	*Chicago, Ill.*
Calvert, Mary A.	*Madison*
Campbell, Ethel Mae ls	*Beloit*
Campbell, Helen E. ls	*Cleveland Heights, Ohio*
Campbell, Helena Brandon	*Big Rapids, Mich.*
Campbell, Paul Edward ls m	*Waukesha*
Campbell, Raymond Gordon	*Ann Arbor, Mich.*
Campion, Hazel Madden	*Madison*
Canepa, Theodore Toto e	*Madison*
Canfield, John F. e	*Sparta*
Cannon, Edward Gaine B.A.	*Pickens, S. C.*
Cannon, Susan Ruth	*Washington, D. C.*
Cant, John Francis ls	*Westfield*
Cappon, Irene E.	*Milwaukee*
Carbaugh, Gaile Alexander B.A.	*Halstead, Kans.*
Carey, Martha O.	*Chicago, Ill.*
Carlberg, Claremont Carl	*Rockford, Ill.*
Carleton, Alma Louise B.A.	*Houston, Tex.*
Carlin, Harry Julius e	*Marinette*
Carlson, Alice Fredrecka B.A.	*Decorah, Iowa*
Carlson, Ellen A. B.S.	*Webster, S. Dak.*
Carlson, Leila Elizabeth	*Chicago, Ill.*
Carlson, Olga E. ls	*Superior*
Carlyle, Vera Thomas B.A.	*Woodstock, Ill.*
Carmichael, Dorothy Reul B.S.	*Helenville*
Carmichael, Harriet E.	*Wayne, Mich.*
Carmichael, Mabel	*Poynette*
Carney, Frank B. ls	*Chicago, Ill.*
Carney, Mary Ellen Conroy ls	*Kaukauna*
Carney, William E. ls	*Shelbyville, Ind.*
Carpenter, Hazel Clair	*Lake Mills*
Carroll, Sylvia Helen ls	*Altoona*
Carroll, Theresa Marie	*Indianapolis, Ind.*
Carter, Catharine Claire	*Muncie, Ind.*
Carter, Eleanor Keller ls	*Madison*

Carter, Mary Carolyn	*Mexico, Mo.*
Carter, Maynard	*Cairo, Ill.*
Carter, Miriam Cochran B.A.	*Boonton, N. J.*
Caruthers, Elizabeth B.S.	*Chickasha, Okla.*
Cary, Ethel May B.A.	*Scotland, S. Dak.*
Cary, Sylvia M.	*Detroit, Mich.*
Case, Ellen M.	*Lone Rock*
Cashman, Nell Margaret	*De Pere*
Caspers, Gertrude M.	*Chicago, Ill.*
Cass, Eunice Janett	*Milwaukee*
Casselman, Ralph T. e	*Milwaukee*
Cassaday, Eldon Joseph ls	*Madison*
Catlin, John Blanchard e	*Appleton*
Causgrove, Jeanette Alice	*Erie, Pa.*
Cavanaugh, James Franklin Ph.B.	*Kaukauna*
Cavanaugh, Thomas ls	*Blanchardville*
Caverno, Margaret Morrill	*Canalou, Mo.*
Caves, Myrtle W. B.S.	*Black River Falls*
Cervenka, Mae Louise	*Riverside, Ill.*
Chadek, James	*Appleton*
Chamberlain, Dorothy Isabelle	*Wabasha, Minn.*
Chamberlin, Blanche J.	*Bangor*
Chambers, Dorothy Frank	*Sadorus, Ill.*
Chambers, Gladys Nickey B.L.	*Kenosha*
Chambers, Helen Margaret	*Oak Park, Ill.*
Chambers, Lucile Patricia	*Chicago, Ill.*
Chang, Mien Aung	*Chuckow, Chechiang, China*
Changnon, Paulina Elva B.S.	*Kankakee, Ill.*
Chanowski, Marie Dorothy	*Detroit, Mich.*
Chapman, Catherine Mary	*River Falls*
Chapman, Dalton Byron e	*Berlin*
Chapman, Goldie A.	*Bloomington*
Chapman, Joanna Elizabeth B.S.	*Carmi, Ill.*
Chapman, Leora Link B.S.	*Lincoln, Nebr.*
Chapman, M. Alma	*Detroit, Mich.*
Chapman, Margaret Olive ls	*Garretsville, Ohio*
Charleton, Elizabeth B.S.	*Cleveland. Ohio*
Charleton, Kathlene Anne	*Cleveland. Ohio*
Chase, Jeanette Katherine ls	*Sun Prairie*
Chase, Nellie M. ls	*Madison*
Chase, Samuel Lynn ls m	*Madison*
Chatelain, Alice B.	*Washington, D. C.*
Chellberg, Dorothy Elaine ls	*Chicago, Ill.*
Chen, David Tooheng	*Hangchou, China*
Chen, Lin Jui ls	*Washington, D. C.*
Chen, Tsung Hsein a	*Peking, China*
Chermak, Alvin Ray e	*Manitowoc*
Chidekel, Miriam Betty ls	*Chicago, Ill.*
Chidensky, Jack B.	*Chicago, Ill.*
Childs, J. Grant	*Sheboygan*
Childs, Marie Elizabeth	*Sheboygan*
Chimelewski, Edmund Anton ls	*Chicago, Ill.*
Chitwood, Clara Belle	*Blue River*
Chott, Ethel Lois	*Chicago, Ill.*
Chrisler, Marie Elizabeth B.A.	*Beaver Dam*
Christensen, Lillian I. ls	*Racine*
Christie, Martha Elizabeth	*Superior*
Christoph, Earle B.A.	*Indianapolis, Ind.*
Chryanowski, Leo A.	*Joliet, Ill.*
Chu, Dauphin F. ls	*Washington, D. C.*
Church, Richard C. B.A.	*Madison*

Clark, Georgia Jeanette B.S.M.	*Kendallville, Ind.*
Clark, Jessie May	*Genoa, Ill.*
Clark, Marriot A. ls	*Milwaukee*
Clarke, Edward Lee	*Hauppange, Long Island*
Clarke, Francis Joseph	*Cleveland, Ohio*
Clausen, Minnie Margaret B.A.	*Tecumseh, Nebr.*
Clausing, Charlotte Mary	*Chicago, Ill.*
Clegg, Harold Henry ls	*Lafayette, Ind.*
Clem, Thomas Richard	*Anderson, Ind.*
Clement, Virginia Jeanette a	*Oak Park, Ill.*
Cleveland, William Richard	*Bloomington, Ill.*
Clifford, Anne Margaret B.M.	*Madison*
Clifford, Catherine Cecilia	*Chicago, Ill.*
Cline, Bertha Burnett	*Marion, Ill.*
Cline, Virginia Pauline ls	*Chicago, Ill.*
Clum, Vera A.	*Wauwatosa*
Clutterbuck, Ruth Dorothy	*Chicago, Ill.*
Cohan, Arthur R.	*Chicago, Ill.*
Cohen, Harvey ls	*Chicago, Ill.*
Cohen, Lillian Reneé ls	*Milwaukee*
Cohen, Tillie Miriam	*Green Bay*
Cohn, Sam	*Walworth*
Coke, Marion Louise ls	*Milwaukee*
Coker, B. Mildred	*Brentwood, Md.*
Coker, Theodore R. e	*Madison*
Colby, Norman Elery	*West Bend*
Colehour, Samuel Philip ls	*Mount Carroll, Ill*
Coleman, Nancy ls	*Springfield, Ill.*
Coles, Charlotte Louise	*Troy, Ohio*
Coles, Florence B.	*Madison*
Colien, Emily Ann	*Manawa*
Collins, Mae Agnes	*Mineral Point*
Collins, Thelma Gertrude	*Sault Ste. Marie, Mich.*
Colson, Elizabeth Catherine	*Mendota, Ill.*
Comer, W. Donald ls	*Naperville, Ill.*
Commons, Clara Emma	*Mount Vernon, N. Y.*
Compton, Dorothy Crown	*Philadelphia, Pa.*
Condit, Helen M.	*Dayton, Ohio*
Conklin, William B. B.A.	*Merriam, Kans.*
Conley, Frances Sophia	*Pittsburgh, Pa.*
Connolly, Lucille Helen	*Chicago, Ill.*
Conohan, Ardyth M. ls	*Madison*
Conover, Mary Ethel B.A.	*Roslyn Heights, N. Y.*
Conrad, Erna Barbara B.S.	*Cincinnati, Ohio*
Conrad, Hildegard M.	*New London*
Conradi, Louise May B.A.	*Tallahassee, Fla.*
Consigny, John P. ls	*Oconomowoc*
Conway, Helen Marie	*Chicago, Ill.*
Cook, Katherine Shields	*Oconto*
Cook, Olive Frances	*Sun Prairie*
Cook, Ruth Katherine	*Madison*
Cook, Sedonia Wilhelmina	*Merrill*
Cooke, Lottie M. (Mrs. G.)	*Rochester, Minn.*
Coolbaugh, Richard Waldron e	*Madison*
Cooley, Richard Presba ls	*Wisconsin Rapids*
Coombs, Millicent Mae ls	*Madison*
Coon, James H. e	*Ladysmith*
Coon, Ruth	*Havana, Ill.*
Cooper, Ada Elizabeth ls	*Saskatoon, Sask., Can.*
Cooper, Anne Genevieve B.S.	*St. Paul, Minn.*
Cooper, William Alexander B.A. gm	*Wauwatosa*

Coover, Catherine Schriver B.A.	*Sedan, Kans.*
Copeland, Charles Sollaz ls	*Rockford, Ill.*
Copeland, Margaret Kohn	*Saginaw, Mich.*
Copt, Henry J.	*Fifield*
Corbin, Homer B. e	*Chicago, Ill.*
Corbus, Budd Clarke, Jr.	*Evanston, Ill.*
Corngold, Bluma	*Chicago, Ill.*
Corngold, Libby	*Chicago, Ill.*
Cotts, Grace W. ls	*Menomonie*
Couchman, Lloyd Clifford	*West Liberty, Ohio*
Coughlin, Mary	*Seneca*
Couhig, Philip Henry B.S.	*Beverly, Mass.*
Coulehan, Charlotte Ellen B.A.	*Cumberland, Md.*
Couleur, Else Cecile	*Chicago, Ill.*
Coulson, Mary C. ls	*Madison*
Coulson, Mona H. ls	*Madison*
Counsell, Isabel Ann	*Oconomowoc*
Courchane, Adolph J.	*Kimberly*
Courteal, Paul	*White Plains, N. Y.*
Cox, Alvalon Conway M.A.	*Indianapolis, Ind.*
Cox, Bernice Louise	*Nashwauk, Minn.*
Cox, Jennie Faun B.A.	*Gaston, Ind.*
Cox, Marvin Edgerton e	*Madison*
Cox, Opal Bosstick	*Danville, Ind.*
Cox, Walter Albert	*Racine*
Craig, David Robert ls	*Oconomowoc*
Crail, Marguerite Wimp B.S.	*Wichita, Kans.*
Crane, Aloise Berne e	*Adams*
Craven, Olive Amanda	*Madison*
Crawford, Sarah Virginia	*Fostoria, Ohio*
Creamer, David Myers B.A.	*Key, Ohio*
Creamer, Harold Griffith	*Tolono, Ill.*
Cressy, Duane Clemet	*Madison*
Croisettier, Minnie Marcia	*Duluth, Minn.*
Cross, Ruth Clarice	*Jeffersonville, Ind.*
Crowell, Neil F. ls	*Oshkosh*
Crowley, Walter Francis ls	*Milwaukee*
Crumlish, Marion Helen B.S.	*Wilmette, Ill.*
Cryan, Mary Elizabeth M.A.	*Detroit, Mich.*
Cuisinier, Frank Xavier l	*Madison*
Cullen, Mary Faulds	*Janesville*
Cullen, Ruth Mary	*Janesville*
Cummings, Harold F. ls	*Madison*
Cummings, Walter Lawrence	*Soldiers Grove*
Cunnard, Julia Helen	*Chicago, Ill.*
Cunningham, Earl Charles B.E.	*Dunbar*
Cunningham, Grace Marie B.S.	*Edwardsville, Ill.*
Cunningham, Rose M.	*Cairo, Ill.*
Cunningham, Thomas Laverne	*Janesville*
Currens, Edith Evelyn	*Oak Park, Ill.*
Curtis, Isaac Wilson	*Summerfield, Ohio*
Curtis, James A. ls	*Libertyville, Ill.*
Curtis, Leroy G.	*Waterloo*
Curtis, Marian Frances ls	*Delavan, Ill.*
Curtis, Theodore Roosevelt	*Sauk City*
Cusack, Catharine Irene	*Canton, Ohio*
Cusack, Margaret Mary	*Chicago, Ill.*
Cushing, Margaret Langham ls	*Portage*
Cutcheon, Frederica Ritter	*Madison*
Cutler, Jameson Y. ls	*Maywood, Ill.*
Cutshall, Katharine Elizabeth B.S.	*Woodsboro, Md.*

Dahlman, John H.	*Wauwatosa*
Daib, Margaret Anna l	*Merrill*
Dalenberg, Ramona	*Chicago, Ill.*
Daley, Ethel Irene ls	*Madison*
Dallman, Glenn Reynold	*Clinton*
Dallwig, Helen Grace	*Wauwatosa*
Dalton, Blanche Marie	*Silver Lake*
Dalton, Teresa Cecilia	*Towanda, Ill.*
Damme, Helen Oleta ls	*Battle Creek, Mich.*
Dana, Doris Eudora	*Alstead, N. H.*
Daniels, Eleanor Louise	*Madison*
Danielson, Hilma	*St. Paul, Minn.*
Danser, Janet Ruth	*Petoskey, Mich.*
Darby, Hortense Evans ls	*Superior*
Darcy, Silvia	*Cleveland, Ohio*
Darling, Mary McNeill ls	*Milwaukee*
Darner, Reta Lucile B.S.	*Topeka, Kans.*
Dashiell, Anne Ellen	*Salisbury, Md.*
Dasler, Adolph Fred B.A.	*Watertown*
Dassow, Romaine William ls	*Sheboygan Falls*
Daub, Anne Woodside	*Pittsburgh, Pa.*
Daub, Emilie Louise	*Pittsburgh, Pa.*
Davidoff, Zelda	*Milwaukee*
Davidson, Helen Hazel B.S.	*Bellflower, Mo.*
Davidson, Leah R. B.A. g	*Madison*
Davidson, Raymond Chalmers ls	*Milwaukee*
Davies, May Aileen m	*Madison*
Davies, Ruth E. ls	*Milwaukee*
Davis, Bessie	*Portage*
Davis, Dorothy E. ls	*Madison*
Davis, Edith Joyce	*Arkansas City, Kans.*
Davis, Eleanore A.	*Madison*
Davis, Elizabeth Ann	*Youngstown, Ohio*
Davis, Esther Fulton	*Hudson*
Davis, Evelyn Amelia	*Detroit, Mich.*
Davis, Geneva Elizabeth	*Syracuse, Nebr.*
Davis, Grace Cogswell M.A.	*Richland Center*
Davis, Jeanette Florence	*Dayton, Ohio*
Davis, Lydia Amanda	*East St. Louis, Ill.*
Davis, M. Beulah	*Richland Center*
Davis, Margaret M.	*Springfield, Ill.*
Davis, Mary Corwin	*Portage*
Davis, Maurice Eugene e	*Chicago, Ill.*
Davison, Sol ls	*Brooklyn, N. Y.*
Dawes, Emma Marvil	*Menomonie*
Dawson, George Waller, Jr.	*Madison*
Day, Florence Charlotte	*Appleton*
Dean, Frederic E. ls	*Sandwich, Ill.*
Dean, Grace E.	*Lake Forest, Ill.*
Dean, Virginia Rose	*Chicago, Ill.*
Dearhammer, Mildred Gwendolyn	*Beloit*
De Baer, Elsie Beth	*Hinsdale, Ill.*
De Bois, Margaret Edna	*Beloit*
Deeds, Dean Dalton, Jr. B.S.	*Granville, Ohio*
De Guere, Helen A. ls	*Wisconsin Rapids*
De Lap, Jack H. e	*Maywood, Ill.*
Delbon, Astrid Geraldine B.A.	*San Jose, Cal.*
De Manigold, Mary L. G.	*Detroit, Mich.*
Dempsey, Rosaline Ethel	*Alden, Mich.*
Dennis, Bertha Genevieve	*Cleveland, Ohio*
Denskey, Willard, Charles ls	*Milwaukee*

Dentzler, William G.	*Milwaukee*
Deobald, Harold John g	*Cleveland, Ohio*
Derby, Rosemary	*St. Louis, Mo.*
Dernbach, Mary Ellen a	*New London*
Desmond, Marguerite Adele	*Woodstock, Ill*
Desmond, Thomas Edward ls	*Milwaukee*
Despres, Claire Mildred ls	*Chicago, Ill.*
Dessloch, Eli Max ls m	*Colby*
Detjen, Clara Margaret	*Wilson, Mich.*
De Trana, Betty Albertina	*Chicago, Ill.*
Deutz, Julia Bell	*Loredo, Tex.*
Deveny, Merriam Elizabeth	*Dixon, Ill.*
Devine, Mae Estelle ls	*Wauwatosa*
Devine, Martha Anne	*Waldo*
Dewenter, Mary Virginia	*West Lafayette, Ind.*
Dewey, Lewis William ls	*Middleton*
Dewey, William Vernon e	*Lake Mills*
Deyoe, William E. ls	*Madison*
Dia, Ida Helen B.A.	*Meyersdale, Pa.*
Dibble, Virginia Jean	*Akron, Ohio*
Dickerson, Frances O.	*Kansas City, Mo.*
Dickie, John A. e	*North Freedom*
Dicks, Allene B.A.	*Natchez, Mass.*
Diemer, Leila E.	*Brodhead*
Dieruf, Louetta M.	*Madison*
Dietl, Katherine Marie	*Lakeville, Ind.*
Dietrich, Edwin Frederick	*Oak Park, Ill.*
Dietz, Myrtle Ruth	*Muskegon, Mich.*
Dildine, Bessie Agnes	*Huron, Ohio*
Dinardo, Charles Joe	*Cleveland, Ohio*
Dittmar, Edna Irene	*Wauwatosa*
Dixon, Robert Lyle ls	*Chippewa Falls*
Dixson, Annie Hill	*Kansas City, Mo.*
Dixson, Callie Ellen	*Kansas City, Mo.*
Dizon, Leon ls	*Madison*
Dobbrick, Bertha	*Garrett, Ind.*
Dobrovsky, Ivan Emanueloff	*Sofia,. Bulgaria*
Dobrovsky, Todor M. a	*Sofia,. Bulgaria*
Dobrunz, Victor B.	*La Crosse*
Dockery, Martha Frances	*Milwaukee*
Dodd, Isabelle M. ls	*Milwaukee*
Dodge, Elizabeth Jane ls	*Madison*
Dodge, Florence Adele B.A.	*Madison*
Dodge, Theodore Ayroult	*Madison*
Doeringsfeld, Norma F.	*Fennimore*
Dolan, Martha Ellen	*Lansing, Mich.*
Dolloff, Thelma Constance	*Plymouth, N. H.*
Domke, Angela C.	*New Holstein*
Donlin, William Francis B.A. gm	*Madison*
Donovan, Anthony B.A. m	*Madison*
Doolen, Minnie Myrna B.S.	*Kinmundy, Ill.*
Dooley, Mayme B.S.	*St. Joseph, Mo.*
Doran, Helen Margaret	*Harvard, Ill.*
Dorau, Evelyn Louise	*Portage*
Dore, Charles Thomas	*Oshkosh*
Dorman, Henry Pickett B.S.	*Chicago, Ill.*
Dorris, Dorothy Alice	*Collinsville, Ill.*
Dorsch, John Bernard ls	*Milwaukee*
Dotzler, Louis Clemens	*Brooklyn, N. Y.*
Doubleday, Neal Frank	*Lake Mills*
Douglas, Robert Stokley B.S.	*Alpha, Ill.*

Douglass, Edward Lewis, Jr.	*Cincinnati, Ohio*
Douglass, Norman Ermah ls	*Madison*
Dowd, Agnes E. B.A.	*Vermilion, S. Dak.*
Dowell, Fay Jane B.A.	*Kansas City, Mo.*
Downey, Mary A.	*Portage*
Doyle, Frances Hazel	*Fort Atkinson*
Doyle, Jean	*Madison*
Doyle, Josephine	*Chicago, Ill.*
Doyle, Linus J.	*Belleville*
Dozier, Thaniel Pinkerton B.A.	*Okmulgee, Okla.*
Draper, Dorothy K. B.A.	*North Freedom*
Drews, Edna Louise	*Milwaukee*
Driver, Mary Sue B.A.	*Dallas, Tex.*
Droppers, Jean Merville	*Milwaukee*
Drow, John Theodore e	*Tomah*
Druml, Frank Ulric e	*Milwaukee*
Drunasky, Elizabeth H.	*Sun Prairie*
Druschke, Harold August ls	*Milwaukee*
Dudley, Gertrude Ansberry	*Oskaloosa, Iowa*
Duer, Jeanette C. Ph.B.	*Chicago, Ill.*
Dufek, Lucy Emma	*Mishicot*
Duffey, Clair John	*Madison*
Duggan, Anna Elizabeth	*Beloit*
Duggan, Benjamin M. Jr. ls	*Madison*
Duling, Miriam L.	*Charleston, W. Va.*
Dunaway, Jessie	*Cincinnati, Ohio*
Dunbar, Jean P. B.A.	*Kenosha*
Duncan, Glenn Allen ls	*Madison*
Dunker, Louise Anna	*Chicago, Ill.*
Dunlap, Bernice N.	*Elwood, Ind.*
Dunlap, Robert Andrews	*Cincinnati, Ohio*
Dunlop, Josephine	*Pueblo, Colo.*
Dunn, Robert Henry	*Columbus, Ohio*
Dunning, Donald Dwane	*Sioux Falls, S. Dak.*
Dupré, Edith Garland M.A.	*Lafayette, La.*
Durant, Rollin Roy Ph.D.	*Columbus, Ohio*
Durgy, Lora Evelyn	*Detroit, Mich.*
Durkacy, Angeline Lucille	*Flint, Mich.*
Durschlag, Eidney Weiss	*Cleveland, Ohio*
Dutt, Norman C.	*St. Joseph, Mich.*
Dutton, Helen Elizabeth	*Marquette, Mich.*
Dwilla, Chloia Elizabeth	*Dixon, Ill.*
Dynes, John Burton B.A. gm	*Mount Carroll, Ill.*
Eagan, Catherine Elizabeth ls	*Flint, Mich.*
Earl, Ann Flossa	*Ypsilanti, Mich.*
Earleywine, Lora Marie a	*Evansville*
Earny, Adam J. ls	*Alma*
Eastin, Donovan Arthur	*Kewanee, Ill.*
Eastwood, Paul R. B.S. g	*Platteville*
Eberhart, Gertrude Helen	*Chicago, Ill.*
Eddy, Doris Isabel	*Staten Island, N. Y.*
Edelstein, Joseph I. ls	*Milwaukee*
Edwards, Charles Wesley	*Columbus, Ohio*
Edwards, Dorothy Helen ls	*Groose Pointe, Mich.*
Edwards, Esther Frances	*Waupaca*
Edwards, Myrna J. ls	*Cambria*
Edwards, William Bryant B.S.	*Terre Haute, Ind.*
Egger, Glenn M. e	*Marshfield*
Eggert, Chester Lee B.A.	*Manitowoc*
Eggert, Floyd Herman B.S.	*Arcadia*
Eggert, Margaret Bennett	*Arcadia*

Eggleston, Elinor Gertrude	*Battle Creek, Mich.*
Einstein, Viola B.A.	*New York, N. Y.*
Eisert, Henry Frank a	*Chicago, Ill.*
Ekanger, Ada Clara	*Rockton,, Ill.*
Ekern, George Lewis B.A.	*Madison*
Ela, Walter P. ls	*Madison*
Ellefson, Estelle Josephine	*Boscobel*
Ellerbe, Clarence Leonard	*Shreveport, La.*
Ellickson, Curtis Arthur	*Arlington*
Elliker, Gertrude	*Waukon, Iowa*
Ellingson, Margaret ls	*Madison*
Ellingson, Ruth Lucretia	*Edgerton*
Elliott, Catherine Rose	*Madison*
Elliott, Cora M. B.S.	*Balaton, Minn.*
Elliott, Harold Martin	*Lone Rock*
Elliott, M. Katherine B.S.	*Superior*
Elliott, Margaret Hannah B.S.	*Lucerne, Ind.*
Ells, Elizabeth Sherman B.A. gm	*Milwaukee*
Ellsworth, Mabel Cline	*Appleton*
Elwonger, Ruth Bernice	*Leetonia, Ohio*
Emberson, Ragnhild	*Greenwood*
Emery, Marion ls	*Chicago, Ill.*
Eners, Elma Elizabeth B.S.	*Wasca, Tex.*
Engelke, Elsie Ethel	*La Crosse*
Engeseth, Edward Johnson	*De Forest*
English, Miriam B.S.	*Upper Montclair, N. J.*
Engquist, Dorothy ls	*Chicago, Ill.*
Ensworth, Elizabeth J. B.S.	*Philadelphia, Pa.*
Erdman, Henrietta L.	*Park Falls*
Erdman, Norma Emily	*Detroit, Mich.*
Erickson, Edwin Norman B.A.	*Ashland*
Erikson, Donald Morris	*Janesville*
Ersler, Edward Sidney	*Madison*
Eserkaln, Theodore Fredrick	*Milwaukee*
Eskilson, Violett Elizabeth ls	*Beecher, Ill.*
Eskola, Esther Ida	*St. Paul, Minn.*
Estvad, Rigmor C. B. M.	*Madison*
Eubank, Ruth Cynthia a	*Westfield*
Evans, George Gerald B.S.	*De Kalb, Ill.*
Evans, Leonard R.	*Sheboygan*
Evans, Lettie Lorena B.A.	*Kansas City, Mo.*
Evans, Robert D. ls l	*Peoria, Ill.*
Evans, William H. ls	*Madison*
Everest, Frances Martha	*Oshkosh*
Ewers, Nelle Sara	*Muscoda*
Ewing, James H. ls	*New York, N. Y.*
Ewing, Pearl Estelle B.S.	*Cincinnati, Ohio*
Fairbrother, Roy	*Sheboygan*
Fairman, Mary Ruth	*Oak Park, Ill.*
Fait, Adell Frances	*Cleveland, Ohio*
Fakes, Itelle B.S.	*New Madrid, Mo.*
Fancher, Helen Virginia	*Racine*
Fang, Chao Huo	*Sitiawam Peiak, F. M. S.*
Farley, Ellen Louise	*Columbus*
Farness, Gladys Jeanette ls	*De Forest*
Farnum, Virginia Dexter	*Milwaukee*
Farrell, Catherine H. B.A.	*Rush Lake*
Faulkner, Ethel F. Ph.B.	*Hillsboro, Ill.*
Faust, Liane Anne ls	*Madison*
Faustgen, Josephine Ann B.A.	*Oshkosh*
Feder, Janet Martha ls	*Bradford, Pa.*

Feiman, Daniel	*Wilmette, Ill.*
Felland, Loreen Evangeline	*Stoughton*
Felts, Clifton	*Marion, Ill.*
Fenton, Dorothy Maie B.A.	*Appleton*
Ferebee, Sarita May	*Richland Center*
Ferfolin, John Joseph	*Cleveland, Ohio*
Ferguson, Bess Clare	*Cazenovia*
Ferguson, Boyd L.	*Cazenovia*
Ferguson, Hazel Mae	*Cambridge, Ohio*
Ferguson, Margaret Gaines	*Pittsburgh, Pa.*
Ferguson, Ruth Meredith B.A.	*Pittsburgh, Pa.*
Fernandez, Gladys B.A.	*New Orleans, La.*
Ferrell, Della May	*Mountain View, Mo.*
Ferrell, Thelma Marian B.S.	*Mountain View, Mo.*
Ferris, John E. II. ls	*Milwaukee*
Fidler, Ruth Evelyn	*Detroit, Mich.*
Fiel, June	*Indianapolis, Ind.*
Fietzer, Emma Jo	*Big Falls*
Figi, Opal Birdella ls	*Madison*
Fink, Alice May ls	*Benoit, Miss.*
Fink, Margaret Caroline	*Youngstown, Ohio*
Fink, Mathilda Annette	*Cleveland, Ohio*
Finkelday, Sadie Lillian B.F.	*Murphysboro, Ill.*
Finley, Ellen L. B.A.	*Dowagiac, Mich.*
Finn, Marian	*Bridgeport*
Fischer, Henry Harold ls	*Plainfield*
Fischer, Vincent Earl	*Rochester, N. Y.*
Fishback, Charles Franklin B.S.	*Decatur, Ill.*
Fisher, Clara	*Madison*
Fisher, Don C. M.A.	*Klamoth Falls, Ore.*
Fisher, Evangeline Mary B.A.	*Reedsburg*
Fisher, Helen Mary	*St. Paul, Minn.*
Fisher, Minnie gm	*Milwaukee*
Fisher, Virgil M.A.	*Worthington, Ind.*
Fisher, Zella Margaret	*DeKalb, Ill.*
Fissell, Merle	*Freeport, Ill.*
Fitch, Richard Homer M.A. gm	*Vermillion, S. Dak.*
Fites, Bernice Colette Ph.B.	*Winamac, Ind.*
Fitschen, Esther Viola B.M.	*Olivia, Minn.*
Fitzgerald, Florence Lucille	*Park Ridge, Ill.*
Fitzgerald, Margaret Jane	*Oconomowoc*
Fitzpatrick, Jessie Hampson	*Willow Springs, Ill.*
Fix, Lilian Grath a	*Madison*
Flaherty, Lauretta Ann	*Denmark*
Flanagan, Gladys Cornelia	*Stevens Point*
Flanagan, Grace M.	*Monroe*
Flanigan, Helen	*New Albany, Ind.*
Flaven, Madeleine Mary	*Erie, Pa.*
Fleer, Brunhilde	*Milwaukee*
Flegel, Dean Franklin	*Racine*
Fleissner, Theresa Marie	*Chicago, Ill.*
Flentye, Marie	*Wilmette, Ill.*
Flesche, Olga Serine	*Hatton, N. Dak.*
Fletcher, Ruby Odell	*Fond du Lac*
Flood, Mary Cecile	*Chicago, Ill.*
Florence, Marion Louise	*Aurora, Ill.*
Floten, Lucile C.	*Montague, Mich.*
Flower, Louise	*Bellevue, Mich.*
Flueck, Alice Anna ls	*La Crosse*
Flynn, Charles H.	*Webster Grove, Mo.*
Flynn, Francis Austin ls m	*Madison*

Fockers, Irene Ann	*Winona, Minn.*
Foley, Constance Celia	*Dorchester*
Folkedahl, Beulah Madeline	*Blanchardville*
Folse, Dorothy Bruff B.A.	*Oak Ridge, La.*
Forbis, Harold Nealy ls	*Albany, Mo.*
Ford, Bess Myers	*Madison*
Ford, Constance C.	*Gary, Ind.*
Ford, Erwin C. ls	*Milwaukee*
Ford, Keith Karl ls m	*Madison*
Ford, Mary Estelle	*Madison*
Forehand, Brooks M.A.	*University, Ala.*
Forgrave, John Robert ls	*St. Joseph, Mo.*
Forkin, Edward W. ls	*Menasha*
Forkner, Frances Ellen	*Joliet, Ill.*
Fortas, Abe	*Memphis, Tenn.*
Fortescue, Ethelynn Josephine B.A.	*Wichita, Kans.*
Foss, Clifton	*Sisseton, S. Dak.*
Foss, Samuel Dillon	*Bay City, Mich.*
Fosse, Alice J. ls	*Madison*
Fosse, Margaret A. B.A.	*Beloit*
Foster, E. Mildred	*Chicago, Ill.*
Foster, Earle William	*Shawano*
Foster, Edith Elton (Mrs.)	*Stanley*
Foster, Viona Lenore ls	*Roberts*
Fowler, Alice Elizabeth	*Milwaukee*
Fox, Edna Mae	*Superior*
Fox, Walter Everett ls	*Glencoe, Ill.*
Fay, Marie C. ls	*New London*
Francis, Leona Margaret	*Madison*
Frank, Esther Jane	*Cincinnati, Ohio*
Frank, Walter Sam	*Woodmese, L. I. N. Y.*
Franseen, Le Noir Blott ls	*Mukwonago*
Franseen, Maybelle Marie	*Frederic*
Franseen, Rosella Anna	*Frederic*
Franti, Mary Sophia	*Winton, Minn.*
Frasier, Helen B.A.	*Mena, Ark.*
Frasier, Ollie Mae	*Mena, Ark.*
Frasier, Waldo B.S.	*Mena, Ark.*
Frazer, Frances Marie B.S.	*Hardin, Mo.*
Fredrickson, Mina Belle B.A.	*Garden Prairie, Ill.*
Fredriksen, Lee Willis	*Rockford, Ill.*
Freeman, Harry Friedman	*Chicago, Ill.*
Freitag, Mildred Lucile	*Minier, Ill.*
Freyburger, Edwin e	*Madison*
Fried, Sylvia Alma	*Madison*
Frisch, Arthur Wain ls	*Chisholm, Minn.*
Fritchen,Mae L.	*Franksville*
Fritz, Marion Theodore ls	*Milwaukee*
Frohrieh, Erna Maria	*Milwaukee*
Frothingham, Miriam W.	*Madison*
Fruit, Marjorie J. O. B.S.	*Franklin Grove, Ill.*
Frusher, Alicia ls	*Madison*
Frutiger, Isabel B. B.A.	*Birmingham, Ala.*
Fry, Mabel Helen	*Fort Wayne, Ind.*
Fuller, Iva Candace	*Whitewater*
Fuller, Ruth Maurine B.A.	*Madison*
Fulton, Donovan Harold	*Beloit*
Flfe, Clayton	*Milwaukee*
Gage, Ruby Elliott	*Beaumont, Tex.*
Gahm, Delmar Floyd B.S.	*Jackson, Ohio*
Gahnz, Elmer F. e	*Cochrane*

Galaske, Gladys L.	*Menomonie*
Galineau, Howard Emerson e	*Milwaukee*
Gallagher, Ann Margaret ls	*Madison*
Gallagher, Greene Mercedese	*Evanston, Ill.*
Gallagher, Leslie W. ls	*Superior*
Gallagher, Margaret Jane B.A.	*Pittsburgh, Pa.*
Galligan, Margaret Theresa	*Ashland*
Galvin, Helen Marie	*Harvard, Ill.*
Galvin, Loretto Theresa	*Chicago, Ill.*
Gamber, Mary Ruth	*Culver, Kans.*
Gander, Mildred Carol ls	*Prairie du Chien*
Gantenbein, Milton E. ls	*La Crosse*
Ganz, Rosalie Agnes	*Alma*
Garde, Ramona	*Beloit*
Gardner, Edith Alena B.A.	*West Lafayette, Ind.*
Gardner, Emily Frances	*Milwaukee*
Gardner, Marguerite Aleda	*Platteville*
Gardner, William Jacob B.A. g	*West Lafayette, Ind.*
Garfunkel, Esther	*Chicago, Ill.*
Garman, Elma B.S.	*Moorcroft, Wyo.*
Garner, Lulu Mae	*Bloomington*
Garner, Richard Warren	*Lima, Ohio*
Garness, Agnes Priscilla	*Madison*
Garness, Gladys Annetta	*Madison*
Garrison, Monroe Joseph	*Chicago, Ill.*
Garstang, William Walter ls	*Indianapolis, Ind.*
Garvy, Cosmas Andrew	*Chicago, Ill.*
Gary, Katherine Wells ls	*Louisville, Ky.*
Gasche, Jacob B. ls	*Luxemburg*
Gaston, German Lacson e	*Silay, Occ. Neg., P. I.*
Gates, Catherine Hunt	*Doniphan, Mo.*
Gates, Pearl Edith	*Youngstown, Ohio*
Gauer, Elsie B.A.	*Winnipeg, Man., Can.*
Gauvin, Ursula	*Eau Galle*
Gay, Charlotte Helen	*Detroit, Mich.*
Gegan, Marvin Joseph B.S.	*Madison Lake, Minn.*
Gehm, Julia Antoinette B.A.	*Webster Groves, Mo.*
Gehrand, Henry C.	*Madison*
Geiger, Lucile Rachel	*Oshkosh*
Geil, Johanna ls	*Milwaukee*
Geis, Harold Lorenz	*Enid, Okla.*
Geisert, Evangeline	*Washburn*
Geissman, Theodore Albert e	*Milwaukee*
Gerber, Grace Mary	*Chicago, Ill.*
Gerecke, Gladys Louise	*Rocky Ford, Colo.*
Geren, Charles Pardue	*New Orleans, La.*
Gerlach, Mildred Elizabeth	*Milwaukee*
Gerlach, Thomas Gordon ls	*Weyauwega*
Gernert, Hulda Marie Sophie	*Louisville, Ky.*
Gerstenfeld, Pearl Rebecca	*Brooklyn, N. Y.*
Gerster, Emily Elizabeth	*Chunk, Pa.*
Geske, Margaret	*Milwaukee*
Gessner, Hazel Ruth	*Fort Wayne, Ind.*
Gettings, Elizabeth Salome	*St. Louis, Mo.*
Getz, Elinor Star ls	*Dallas, Tex.*
Getzin, Jennie E.	*Milwaukee*
Gewe, Bertha Catherine	*Hillsboro, Ill.*
Gewe, Carla Louise B.A.	*St. Louis, Mo.*
Gfroerer, Kenneth John	*Madison*
Gibbins, Edna Mae	*St. Joseph, Mo.*
Gibbon, Hannah Mabel B.A.	*West Allis*

Gibbs, E. Jane B.A.	*Maplewood, Ore.*
Gibbs, Emma L.	*Maplewood, Ore.*
Gibbs, Harold Joseph	*Iron River, Mich.*
Gibbs, Kate Maria B.A.	*Washington, D. C.*
Gibson, Lillian Rebecca ls	*New Lisbon*
Gibson, Marjorie Blanche	*Goshen, N. Y.*
Gibson, Robert Gordon	*Sioux City, Iowa*
Gieratz, Bessie	*Milwaukee*
Gilkeson, Glen	*Missouri Valley, Iowa*
Gilkeson, Helyn Humbert	*Omaha, Nebr.*
Gill, Aileen Jackson ls	*Cleveland, Ohio*
Gill, Lois M. ls	*Madison*
Gill, Virginia Marie	*Chicago, Ill.*
Gillard, Beulah Ellen	*Fort Atkinson*
Gilles, Paul Julius B.S.	*Alma Center*
Gillette, Selma Mae	*Greeley, Colo.*
Gillham, Charles Edward B.S.	*Edwardsville, Ill.*
Gilson, Helen M.	*Galena, Ill.*
Giron, Angel B. a	*Pangasinan, P. I.*
Gitchell, Helen E. ls	*Green Bay*
Gladfelter, Ada Irene	*York, Pa.*
Glasier, Marshall Willis	*Madison*
Glenbert, Rose	*Madison*
Glenn, Maude B.A.	*Mount Vernon, Ill.*
Glicksman, Marjorie	*Madison*
Gmahling, Cecilia Patricia	*Douglas, Ariz.*
Godfrey, Grace Graham ls	*Wauwatosa*
Godfrey Rachel Arlean	*St. Louis, Mo.*
Goetz, Emily Anna ls	*Milwaukee*
Goetz, Theresa Irene	*National Home*
Goldberg, Belle B.	*Chicago, Ill.*
Goldberg, Milton Harold	*Chicago, Ill.*
Goldblatt, Leona Genevieve	*Kansas City, Mo.*
Goldenberg, Morris D.	*Worcester, Mass.*
Goldmann, Edith Lucile B.S.	*Madison*
Goldthorpe, Anne M.	*Milledgeville, Ill.*
Goldthorpe, Grace	*Milledgeville, Ill.*
Golluber, Hortense Louise ls	*St. Louis, Mo.*
Golonski, Marie Elizabeth	*Chicago, Ill.*
Goodlett, Martha Washington ls	*Madison*
Goodman, Jay	*Milwaukee*
Goodman, Lena R.	*Brooklyn, N. Y.*
Goodman, Ruth Catharine	*Decatur, Ill.*
Goodman, Seymour	*Chicago, Ill.*
Goodnight, Scott H. ls m	*Madison*
Goodrich, Perce Gordon	*Winchester, Ind*
Gordon, Anna Bennett	*Memphis, Tenn.*
Gordon, Elmer Henry	*Verona*
Gordon, Virginia Louise ls	*Madison*
Gorst, Vera Venita	*Black Earth*
Gorsuch, Helen H. ls	*Waupun*
Gorton, Mildred Viarda	*Arcadia*
Goss, Virginia Alice	*Evanston, Ill.*
Gotham, Ruth Gray	*Ladysmith*
Gottfried, Fred ls	*Milwaukee*
Gottschalk, Morgan G. B.P.E.	*Madison*
Gourley, Marion Dorothy	*Milwaukee*
Grady, Julia Ricketts	*Madison*
Graetz, John B. e	*Milwaukee*
Graff, Edward Otto B.A.	*Avon Lake, Ohio*
Graff, Francis Xavier	*Chicago, Ill.*

Grahler, Elva Bertha	*Monroe*
Granger, Hazel	*Cedar City, Utah*
Grant, Glenna Fay B.A.	*Abilene, Tex.*
Grant, Hiram Elvin e	*Hartington, Nebr.*
Grant, Jean Gairns	*Joliet, Ill.*
Grassmick, Emma	*Madison*
Grawunder, Edna M.	*Minneapolis, Minn.*
Gray, Isabel Davison B.A.	*Pekin, Ill.*
Gray, O. Virginia	*Memphis, Tenn.*
Gray, Ruth M.	*Platteville*
Gray, Ruth Wilson	*East Hampton, N. Y.*
Graybill, Kathleen Margaret	*Fort Atkinson*
Green, Eleanor	*Portage*
Green, Kenneth Henry e	*Madison*
Green, Margot l	*Portage*
Greene, Bernadette	*Lyndon Station*
Greene, Henry Campbell M.S. g	*Portland, Ore.*
Greene, Nellie Rowland B.A.	*Portland, Ore.*
Greenhow, Alice Jean	*Dubuque, Iowa*
Greenhow, Harriet E.	*Dubuque, Iowa*
Greer, Anna Lucille B.A.	*Zion, Ill.*
Gregory, Helen Virginia	*Cincinnati, Ohio*
Gregory, Jeanette Winifred ls	*Manitowoc*
Grenzow, William Henry	*Waupun*
Greunke, Edgar G. e	*Granton*
Grider, Helen Arline	*Milwaukee*
Gridley, Rollin Thorburn B.A.	*Janesville*
Griepenstroh, Merle	*Grandview, Ind.*
Griest, Mary Ruth	*Omaha, Nebr.*
Grieves, Mary Hilda	*Wheaton, Ill.*
Griffing, Elizabeth Adeline M.S.	*Clark, S. Dak.*
Griffith, Josephine A. a	*Racine*
Griggs, Christine Marjorie B.A.	*Pittsburgh, Pa.*
Griggs, Helen Mary B.S.	*Chicago, Ill.*
Grim, George Edward	*Kirksville, Mo.*
Griner, Helen	*Webster, Iowa*
Griswold, Harry Nyal ls	*Cambridge*
Gross, Ethel I.	*Waukesha*
Gross, Harold Lee e	*Madison*
Grossman, Lena	*Milwaukee*
Grote, Ethel C. a	*Van Horne, Iowa*
Groth, Alvin Lorenzo e	*Verona*
Groth, Howard Alexander	*Oak Park, Ill.*
Grout, Julia Rebecca M.S.	*Hopkinton, Mass.*
Grove, John A.	*Newton, Kans.*
Groves, Sara Agnes B.A.	*Kaylor, Pa.*
Gruber, Emma Virginia	*Racine*
Gruenberg, Herbert Matsner ls m	*New York, N. Y.*
Gruenhagen, Richard E.	*Oshkosh*
Gscheidle, Gertrude Elizabeth	*Chicago, Ill.*
Gudgel, Mary Frances	*Frankfort, Ky.*
Guell, Marguerite Florence	*Dodge Center, Minn.*
Guerin, Florence Kent	*Detroit, Mich.*
Guimont, Marie De S.	*Green Bay*
Gullord, Edward G. ls m	*Greenwood*
Gundlach, M. Josephine ls	*Prairie du Sac*
Gunnis, Lilian	*Milwaukee*
Guntz, Charles Melvin ls	*Milwaukee*
Gustafson, Elvira Hortense	*Houghton, Mich.*
Gustavel, Walter Hart ls	*Chicago, Ill.*
Gustavson, Martha Evelyn	*Chicago, Ill.*

Gutel, Gladys I. B.A.	*Odell, Ill.*
Gutenkunst, Joseph B.	*Milwaukee*
Guthrie, Helen L. B.S.	*Central City, Nebr.*
Guthrie, Virginia C.	*Central City, Nebr.*
Guy, Benjamin F. e	*Milwaukee*
Gwin, Clarence Martin g	*Madison*
Haak, Clara Helen	*Madison*
Haan, Irene Margaret	*Milwaukee*
Haas, Esther Exner	*Madison*
Haas, Grant Carl	*Madison*
Hass, Herbert W. e	*Kaukauna*
Haas, Walter Francis B.A.	*Niagara*
Haase, Charlotte Annelies	*Madison*
Haberkorn, Adena M. a	*Ripon*
Hackner, David Harold ls	*Chicago, Ill.*
Hackney, Phyllis Mary	*Tomah*
Hadler, Ruth Elizabeth	*Chicago, Ill.*
Hauntzschel, Edith Martha ls	*Madison*
Haentszchel, Edna Augustana B.M.	*Madison*
Hagan, Nelson M. ls	*Madison*
Hagen, Alice Frances ls	*Osseo*
Hager, Carl John	*Jefferson*
Haglund, Alvin Serem	*Hurley*
Hagman, Walter Phillip	*Kaukauna*
Hahn, Constance B.A.	*Hudson, N. Y.*
Hahn, Dorothy Virginia	*Homestead Park, Pa.*
Haight, Esther Ann ls	*Cambridge*
Haines, Clara Lydia	*Merrimac*
Hales, Myron Wallace a	*Poynette*
Hall, Helen H.	*Green Bay*
Hall, Herman Hazlitt B.A.	*Crawfordsville, Ind.*
Hallberg, H. Irene	*Marinette*
Hallock, Esther Robertson B.S.	*Speonk, N. Y.*
Halperin, Robert Sherman ls	*Oak Park, Ill.*
Halstead, Rebecca	*Brookston, Ind.*
Halverson, Clayton A.	*Madison*
Haman, Robert Walter g	*Monroe*
Hamburger, Gustave M.A.	*Brooklyn, N. Y.*
Hamilton, Blanche Warren	*Pittsburgh, Pa.*
Hamilton, Frank Dennis	*Dodgeville*
Hammill, Florence	*Chicago, Ill.*
Hanchett, John Creighton e	*Janesville*
Hand, Mary Regina	*Sheboygan*
Handler, Sylvia Carolyn	*Lakewood, Ohio*
Handley, Geraldine Dunbar ls	*Chicago, Ill.*
Hanks, James Judge B.A.	*Madison*
Hanley, Thelma Alice	*Homestead, Pa.*
Hannah, Virginia B.	*Wilmette, Ill.*
Hannan, William Henry	*Livingston*
Hanners, Harvey W. e	*Oakfield*
Hanrahan, Catherine	*Kewaunee*
Hans, Marie J.	*Galena, Ill.*
Hansen, Henry E.	*Marinette*
Hansen, Henry Paul ls	*La Crosse*
Hansen, John D. M.A.	*Lincoln, Nebr.*
Hansen, Miriam Hall Mrs. M.A. g	*Lincoln, Nebr.*
Hansen, Nancy Gertrude Ph.B.	*Milwaukee*
Hanson, G. Burton	*Omro*
Hanson, Gertie Lulie ls	*Richland Center*
Hanson, Mary G.	*Madison*
Hanson, Oscar Henry ls m	*Cambridge*

Hanson, Robert	*Superior*
Hanss, Marie Josephine	*St. Louis, Mo.*
Harber, Lucile	*Jacksonville, Ill.*
Hard, Mabel A.	*Superior*
Hardie, Margaret J.	*Cedar*
Harding, Catherine Garfield B.A.	*San Antonio, Tex.*
Harding, Helen Davis ls	*San Antonio, Tex.*
Hardy, Clarence J.	*Aurora, Ill.*
Hardy, Josephine Lenore ls	*Marion, Ind.*
Hardy, Vernoa ls	*Gulfport, Miss.*
Hare, Leona	*Narka, Kans.*
Hargrave, Ruth Burch	*Thomasville, Ga.*
Harkey, Lorraine Mary	*Snyder, Okla.*
Harloff, Virginia Mae ls	*Madison*
Harlow, Frank Edward ls	*Lakewood, Ohio*
Harman, Lela	*Conneaut, Ohio*
Harmison, Joseph Greenaway	*Genesco, Ill.*
Harmon, Fredericka Beatrice	*St. Louis, Mo.*
Harmon, Marie Vera	*Sheldahl, Iowa*
Harms, Carl H.	*Sheboygan*
Harnden, Althea M.	*Park Ridge, Ill.*
Harrigan, Gerald Bernard ls m	*Milwaukee*
Harris, Albert B.	*Madison*
Harris, Lillian Fredricka	*Superior*
Harrison, James Ruton	*Goshen, Ind.*
Harrison, Kathleen M.A.	*Kansas City, Mo.*
Harrison, Robert Solon, Jr. M.S. g	*Madison*
Harrison, Virginia Jane ls	*Flint, Mich.*
Harrold, Elizabeth B.A.	*Pittsburgh, Pa.*
Harrop, Clayton D. ls	*Arena*
Harshey, Edith Marie	*Cleveland, Ohio*
Hart, Bernard Ellis	*Monticello, Ark.*
Hart, Edward John	*Waupaca*
Hart, Edythe Myrtle	*Sheboygan*
Hart. James A. ls	*Maywood, Ill.*
Hart, Margaret F.	*Wauwatosa*
Hart, Vida	*Madison*
Hartenstein, Sara Belle	*Wheeling, W. Va.*
Hartig, Lorraine Grace	*Oak Park, Ill.*
Hartman, Mary Racheal	*Berdan, Ill.*
Hartman, Robert James M.A.	*Fort Wayne, Ind.*
Hartnett, Elizabeth Ann	*Racine*
Hartwig, Edna Matilda	*Mondovi*
Harwood, Viola	*Devils Lake, N. Dak.*
Haslam, Edward Leonard ls	*Oshkosh*
Haslanger, Magdalene Katherine	*Lakeville, Ind.*
von Hasseln, Jefferson Webb B.S.	*Anderson, S. C.*
Hastings, Elma Grace	*McFarland, Cal.*
Hatleberg, Earl J. ls m	*Madison*
Haug, Gusta Sophie	*Spring Valley*
Hausen, Winifred B.M.	*Franklin Grove, Ill.*
Hauser, Wynona Louise a	*La Crosse*
Havens, Ralph John ls	*Madison*
Havens, Ruth Erma	*Savanna, Ill.*
Haverberg, T. Edward e	*Finley*
Hawkins, Alma Mae B.S.	*Rolla, Mo.*
Hawkins, Horatio Bates M.A.	*Madison*
Hawkinson, Hannah Sophie	*St. Paul, Minn.*
Hay, Louis B.S.	*Brooklyn, N. Y.*
Head, Eleanor B.A.	*Madison*
Heathcote, Leila Fern	*Fennimore*

Hebberd, Arthur Edward	*La Crosse*
Heberlein, Ed. G. e	*Milwaukee*
Heck, Sidonia Helen ls	*Mondovi*
Heibl, Joseph John ls	*Milwaukee*
Heideman, Walter H., Jr. Ph.B.	*Middletown, Conn.*
Heidemann, Wesley Paul	*Milwaukee*
Heider, Kenneth Lawrence B.S.	*Moline, Ill.*
Heilprin, Bernard B. ls	*Madison*
Heilprin, Harry H. ls	*Madison*
Heineman, Henry George	*Winnetka, Ill.*
Heise, J. Herbert B.A.	*Janesville*
Heise, William von Rohr	*Winona, Minn.*
Heisel, Anne	*Pound*
Heisig, Gertrude M. B.S.	*Madison*
Heiss, Newton J.	*Delavan*
Heitbohmer, Alice May	*Chicago, Ill.*
Heitbohmer, Margaret A.	*Chicago, Ill.*
Held, Chester John e	*Milwaukee*
Helm, Mary Josephine	*Appleton*
Helpap, Alice A.	*Watertown*
Helz, Armin W. ls	*Milwaukee*
Hembre, Julius Ole	*Baker, Montana*
Henckler, Ruth Marion B.A.	*University City, Mo.*
Henderson, Elizabeth Mary ls	*Chicago, Ill.*
Henderson, Hazel Shivers ls	*Madison*
Henderson, Hortense Elisabe'h	*Superior, Nebr.*
Henderson, Isabel Cameron	*Cadillac, Mich.*
Hendrich, Louise	*Milan, Tenn.*
Hendrickson, Russell S. ls	*Chicago, Ill.*
Henkel, Alma Marguerite	*Lancaster*
Henlein, Antoinette ls	*Madison*
Hennessey, Catherine Cecelia	*Green Bay*
Henning, Vera Marian	*St. Louis, Mo.*
Henrickson, Ralph e	*Chicago, Ill.*
Henry, Louise Asbury B.A.	*St. Louis, Mo.*
Henry, Viola Esther a	*Basco*
Herberg, Winfred Arthur ls	*Mayville*
Herlin, Stanley M. ls	*Rockford, Ill.*
Herman, Mildred Sarah	*Sheboygan*
Hermann, Elfrieda Caroline	*Middleton*
Hermann, Martha A.	*Manawa*
Hermansen, Evald e	*Wauwatosa*
Herreid, Jerome Harris ls	*Deerfield*
Herrick, Faith Elaine	*Stevens Point*
Herron, Margaret Helen B.A.	*Pittsburgh, Pa.*
Hertz, Frank W. Ph.B.	*Waukesha*
Hertz, Roy ls	*Cleveland, Ohio*
Hess. Catherine Sparks B.A.	*Lodi*
Hess, Esther Leona	*Marietta, Ohio*
Hess. Mary Isabell B.S.	*Sikeston, Mo.*
Hetzel, Walter Lewis B.A.	*Arlington, Iowa*
Heuser, Harold H.	*Chicago, Ill.*
Heyroth, Melvin Howard	*Two Rivers*
Hibma, Theressa Theodora ls	*Madison*
Hickok, Katherine C. B.S.	*Covington, Ky.*
Hickox, Roger Whitney ls	*Virginia, Minn.*
Hielsberg, Alfred William e	*Oshkosh*
Hiestand, Frances Richards	*Madison*
Highsmith, William Cochran	*Fayetteville, N. Car.*
Higley, Florence Cooling B.A.	*Cawker City, Kans.*
Hikes, Etta Susan B.A.	*Guthrie, Okla.*

Hildebrand, Lowell Hanley	*Huntington, Ind.*
Hill, A. Lulu	*East St. Louis, Ill.*
Hill, Clyde Clayton	*Cleveland, Ohio*
Hill, Evan Victor	*La Farge*
Hill, James Lawrence B.A.	*Rushford, Minn.*
Hill, Melvin B.S.	*Leland, Ill.*
Hill, Mildred S. B.A.	*Madison*
Hill, Olive Virginia	*Wellsburg, W. Va.*
Hill, Thomas J. B.A.	*Wellsburg, W. Va.*
Hill, Velsie Muriel	*Marion, Ill.*
Hill, Vera Alma B.A.	*Muskegon, Mich.*
Hilton, Mary Jane	*Neenah*
Hilton, Sue Elizabeth White	*Ionia, Mich.*
Hinckley, Donald Curtiss	*Waukesha*
Hinderliter, Don R.	*Tulsa, Okla.*
Hirsch, Clarice Hexter	*St. Joseph, Mo.*
Hirsh, Morris H. ls	*Chicago, Ill.*
Hirst, Dallas Louise ls	*Madison*
Hiserodt, Lucile B.A.	*Gridley, Ill.*
Hitt, Joseph Emmert	*Chicago, Ill.*
Hoag, Hallack W. B.A.	*Newton, Kans.*
Hoard, Edith V.	*New York Mills, Minn.*
Hoard, Kenneth Paulsen	*Mosinee*
Hoblit, Helen Harker ls	*Bloomington, Ill.*
Hodde, Helen Louise	*Indianapolis, Ind.*
Hodges, Eva Miriam B.M.	*Greenville, N. C.*
Hodges, Mildred Adah a	*Madison*
Hoefer, Alice Loraine	*Kansas City, Mo.*
Hoegberg, Marion Elvera a	*Rockford, Ill.*
Hoff, Joseph Robert	*Chicago, Ill.*
Hoff, Margaret E. B.S.	*Madison*
Hoff, Marie E.	*La Crosse*
Hoffman, Bernarde Joseph	*Fremont, Ohio*
Hoffman, Frances E.	*Muncie, Ind.*
Hoffman, Joan A.	*Two Rivers*
Hoffman, Leone Marie B.A.	*Ripon*
Hoffman, Muriel F.	*Manitowoc*
Hoffman, Ray	*Plymouth*
Hoffmann, Frances B.	*Bear Creek*
Hofheins, Roger Walter	*Buffalo, N. Y.*
Hoh, Oscar John	*Appleton*
Hoiles, Walter S.	*Chicago, Ill.*
Holbeck, Hal.	*New York, N. Y.*
Holleran, Teresa B.S.	*Pittston, Pa.*
Holliday, Murray Lucas	*Fairmount, Ind.*
Hollingsworth, Coral M.	*Mexico, Mo.*
Holmes, Alice Isabel g	*Milton*
Holst, Edward Demin ls	*Milwaukee*
Holton, Alice Semanda	*Stoughton*
Holtgrewe, George Frederick	*St. Louis, Mo.*
Holty, Mary Theodora	*Aurora, Ill.*
Holyoke, Thomas R.	*Monroe*
Holz, Dorothea D.	*Seymour*
Hood, Zoe Tunnicliff B.S.	*Spring Green*
Hook, Jessie Winifred	*Detroit, Mich.*
Hooper, Margaret	*Milwaukee*
Hope, Hollis Raymond Ph.B.	*Garden City, Kans.*
Horn, Carolyn Murray a	*Logansport, Ind.*
Horn, Clara B.A.	*New York, N. Y.*
Horn, Marvel Corinne M.A.	*Columbus, Ohio*
Horn, Vivian Josephine ls	*Ladysmith*

Hornig, Frederick Franklin e	*Milwaukee*
Hornstein, Yetta	*Chicago, Ill.*
Horr, George Dean M.B.A.	*Needham, Mass.*
Hortenstine, Zelma Mary B.S.	*Brookfield, Mo.*
Horton, Jeanette Johnson	*Wyandotte, Mich.*
Horton, Mae B.	*Lancaster*
Hoschek, Barbara Agnes	*Detroit, Mich.*
Hoselton, Eve G.	*Weyerhauser*
Hoskins, Mary Lewis	*Washington, D. C.*
Hosmer, Macdonald Stuart B.S.	*Ashland*
Hougen, Harvey L.	*Dorchester*
Hough, Queenie Viola	*Oshkosh*
Houghton, Charles Norris	*Indianapolis, Ind.*
House, Julia Lilly	*Evansville, Ind.*
Hoverson, Florence Valborg	*Stoughton*
Hovey, Hannah Sophia	*Ironwood, Mich.*
Howard, Edwin T. B.S.	*Roanoke Rapids, N. C.*
Howe, Henry Edwin ls	*Prairie du Chien*
Howell Bernice Hannah	*Dousman*
Hoye, Gladys Annette	*Beloit*
Hoyt, Donna V.	*Gaylord, Mich.*
Hoyt, Gladsy Lucille B.A.	*Hull, Ill.*
Hu, Tun Yuan M.A.	*Hanchow, China*
Huang, Hui B.S.	*Foochow, China*
Huang, Shih Chun	*Washington, D. C.*
Hub, Vera Ruth a	*Riley*
Hubbard, Frank H. Jr. e	*Wauwatosa*
Huber, Milon George B.S. e	*Bangor*
Huber, Robert Bernhardt ls	*Clinton*
Huckins, Dorothy Mae	*Cedar Rapids, Iowa*
Hudlestun, Nelle Jane B.S.	*Centerburg, Ohio*
Hudepohl, Eva May	*Pittsburgh, Pa.*
Hughes, Elva Frances	*Independence, Kans.*
Hughes, Hila Lee	*Huntington, W. Pa.*
Hulse, Rachel Jennings	*Oak Grove, Mo.*
Hulten, Charles Morris ls	*Marinette*
Hummel, Emma W. B.S.	*Arlington*
Hunder, Marcus Benjamin e	*Stoddard*
Hunkel, Victor Henry Ph.B. gm	*Milwaukee*
Hunt, T. Dwight ls m	*Madison*
Hunt, Verne Bour	*Mason City, Iowa*
Hunter, Lillian Rose	*Rockford, Ill.*
Hunter, William Norman, Jr.	*Mobile, Ala.*
Hunting, Walter Jackson B.A.	*Duluth, Minn.*
Huntoon, Rosemary B.S.	*Rock Island, Ill.*
Huntzicker, Harry Noble B.A. g	*Ivanhoe, Minn.*
Hunzicker, Lyle Frederick	*Madison*
Hupp, Ethel	*Cameron, W. Va.*
Hurd, Emily Vaughan ls	*St. Louis, Mo.*
Hurlbutt, Jane Ann ls	*Oshkosh*
Hurst, Ruby Esther	*Chetek*
Husting, Marguerite Marie Elizabeth	*Milwaukee*
Hutchison, James Carl	*Chemewah, Wash.*
Huth, Alton Malcom e	*Cochrane*
Hutton, Gladys Moody	*Chicago, Ill.*
Hutton, Robert Wallace e	*Ottawa, Ont., Can.*
Hyatt, Catherine Brown	*Richland Center*
Hyde, Elsie Ruth B.S.	*Brookings, S. Dak.*
Hyland, Marie Inona	*Edgerton*
Hyman, Irene	*Memphis, Tenn.*
Iahn, Elsa Mary	*Terre Haute, Ind.*

Ibson, Ada L.	*Union Grove*
Iddings, Harold J.	*Harvey, Ill.*
Imber, Helen M.	*Chicago, Ill.*
Ingalls, Alice William	*Onalaska*
Ingenhutt, Catherine Weeks ls	*Minneapolis, Minn.*
Ingham, Madeline M.	*Chicago, Ill.*
Ingli, H. Merle B.A.	*Ellsworth*
Inglis, Elizabeth Jefferson B.A. g	*Van Nuys, Cal.*
Ingold, Gertrude Elizabeth B.A.	*Monroe*
Ingwersen, Helena Juan	*Wyoming, Iowa*
Iriki, Walter Keisuke B.A.	*Oakland, Cal.*
Irwin, Hazel	*Paterson, N. J.*
Iverson, Sylva Annette	*Worthing, S. Dak.*
Ives, A. Asenath ls	*Topeka, Kans.*
Jackman, Alwyn Sharp	*Madison*
Jackson, Calvin G. B.S.	*Rockford, Ohio*
Jackson, Carol Mary	*Pelham Manor, New York*
Jackson, Dorothy Mann	*Houston, Tex.*
Jackson, Francis Eugene	*Monroe, Mich.*
Jackson, Robert Charles e	*Madison*
Jackson, Ruth Ethel B.A.	*Riley, Ind.*
Jacob, Margaret Anna	*Pittsburgh, Pa.*
Jacobi, Erna Charlotte ls	*Madison*
Jacobs, Earie Idelia	*Sawyer*
Jacobs, George Frederick B.C.S.	*Mukwonago*
Jacobs, Grace E.	*Sparta*
Jacobs, Libby Beatrice ls	*St. Louis, Mo.*
Jacobson, Lloyd Saul ls	*Milwaukee*
Jacobson, Nell Rose	*Burlington*
Jaeger, Ardeau Bernice	*Chicago, Ill.*
Jaeger, Emma A.	*Marinette*
Jaknoz, Helen Frances	*Milwaukee*
James, Aimee L.	*Kansas City, Mo.*
James, Betty Margaret	*Chicago, Ill.*
James, Florence	*Madison*
James, Phyllis Irene ls	*Chicago, Ill.*
Jameson, Rosalie Agnes	*Shullsburg*
Jamison, Rosalie Agnes	*Pittsburgh, Pa.*
Jandrey, Fred William ls	*Neenah*
Janke, Richard Julius B.A.	*New Ulm, Minn.*
Jaquish, Flora Datton	*Madison*
Jaquish, Paul E.	*Madison*
Jarrett, Vinton	*Chicago, Ill.*
Jarvis, Elfin Chapman B.A.	*Hubbard, Tex.*
Jasper, Emory Charles, Jr. e	*Madison*
Jasperson, Leone G. ls	*Viroqua*
Jauch, John e	*Chicago, Ill.*
Jeffries, Ida Mae	*Janesville*
Jelmstad, Lyla Byrel	*Madison*
Jeidy, Pauline	*Prairie du Chien*
Jenkins, Barbara Burrill ls	*Madison*
Jennings, Harry Edmond ls	*New Castle, Ind.*
Jensen, Betty	*La Porte, Ind.*
Jensen, Esther Marie	*Eau Claire*
Jensen, Frederick George ls m	*Menasha*
Jentzsch, Albert William	*Medford*
Jepson, Isla Lorene a	*Bear Creek*
Jerdee, Theodore Oswald Ph.B.	*Stoughton*
Jerrard, Muriel Fay B.A.	*Winnipeg, Man., Can.*
Jester, Elise Lillian	*Corsicana, Tex.*
Jester, Sarah Fish	*Corsicana, Tex.*

Jewell, James William M.A.	*Burning Springs, Ky.*
Jobling, Edith May	*Wellsville, Ohio*
Johannsen, Albert T. e	*Chicago, Ill.*
John, Herbert A. e	*Milwaukee*
Johnson, Albion	*Kenosha*
Johnson, Anatasia Lauretta	*Madison*
Johnson, Chester Arnold	*Stoughton*
Johnson, Chester Ellsworth	*Oak Park, Ill.*
Johnson, Chester Frederick	*Wichita, Kans.*
Johnson, Clinton M.	*Galesville*
Johnson, Dorothy Claire	*River Forest, Ill.*
Johnson, Dorothy Elaine	*Milwaukee*
Johnson, Edith Elizabeth	*Greensburg, Ind.*
Johnson, Eleanor Alice	*Appleton*
Johnson, Ella	*Rockford, Ill.*
Johnson, Elsie Mae	*Reynolds, Ill.*
Johnson, Esther Lillian B.A.	*Chicago, Ill.*
Johnson, Evelyn Barkstrom	*Chicago, Ill.*
Johnson, Evelyn Philomene	*Central City, Nebr.*
Johnson, Ferne Alvina	*Glenwood City*
Johnson, Frances Hyde ls	*Madison*
Johnson, Gertrude Evelyn	*Spiceland, Ind.*
Johnson, Helen Theodora	*Morrisonville*
Johnson, Hilda	*Grand Rapids, Mich.*
Johnson, Jeanette Catherine	*River Forest, Ill.*
Johnson, Laura Butler B.A.	*Madison*
Johnson, Milo S. B.S.	*Grunee, Ill.*
Johnson, Richard Burton	*Chicago, Ill.*
Johnson, Ruth Mabel	*Rockford, Ill.*
Johnston, Mary Margaret B.A.	*Chambersburg, Pa.*
Johnston, Russell C.	*Kenosha*
Jones, Albert C.	*Verona*
Jones, Charlotte Elizabeth B.S.	*Girard, Ohio*
Jones, Donald Adams ls	*Madison*
Jones, Donald Elijah ls	*Madison*
Jones, Doris	*Emporia, Kans.*
Jones, Dorothy Mounce	*Hannibal, Mo.*
Jones, Edna Craig ls	*Portage*
Jones, Eleanor Louise ls	*Madison*
Jones, Evelyn Catherine	*Girard, Ohio*
Jones, George Edward	*Plainfield*
Jones, Grace Moore B.S.	*Lansdowne, Pa.*
Jones, John Edward	*Algoma*
Jones, Lawrence Frederic	*Fond du Lac*
Jones, Lucy D. B.A.	*Birchwood*
Jones, Mary L. ls	*Madison*
Jones, Ruth Eleanor	*Pewaukee*
Jones, Thelma	*Van Wert, Ohio*
Jones, Thomas Redmond	*Oak Park, Ill.*
Jongewaard, Henry George ls m	*Kansas City, Mo.*
Jorgensen, Ellen Martha	*Chicago, Ill.*
Jorgensen, Eva Dorothea ls	*Waupaca*
Jorgensen, Margaret E.	*Chicago, Ill.*
Jorgensen, Philip Burnell	*Madison*
Jorgenson, Gerald A.	*Racine*
Jorgenson, Helen Ingabor	*Hayward*
Joslin, Allen Proctor Ph.B.	*Boston, Mass.*
Joslin, Harriet Mary ls	*Darlington*
Joslyn, Ruth Marguerite	*Waldo*
Joswiak, Esther Elizabeth	*Milwaukee*
Judson, Emily Mackin	*Madison*

Judson, Philip MacGregor e	*West Allis*
Jueal, Dorothy Hogle	*Chicago, Ill.*
Julsrud, Esther Margaret B.A.	*Rushford, Minn.*
Jung, Eleanor L.	*Woodstock, Ill.*
Kaeser, Frederick ls	*Madison*
Kaeser, Louise	*New Salem, Ill.*
Kahoun, Irma Doris ls	*Prairie du Chien*
Kailin, Harvey g	*Madison*
Kaiser, Martha Elsie M.A.	*New York, N. Y.*
Kaiser, Nick Jacob	*Houghton, Mich.*
Kalbfleisch, Wilfred Ray	*Detroit, Mich.*
Kalina, Bessie	*Chicago, Ill.*
Kalm, Katherine	*Woodmere, N. Y.*
Kalmon, Morris B.S.	*Akron, Ohio*
Kaltenback, Marjorie Payme	*Kenosha*
Kanas, Francis Bertha	*Mayville*
Kandel, Hannah Mildred	*Chicago, Ill.*
Kane, Elizabeth Francis	*Chicago, Ill.*
Kane, Lillian B.S.	*Paterson, N. J.*
Kane, Norah Edna ls	*Green Bay*
Kanning, Eugene William M.A.	*Fort Wayne, Ind.*
Kaplan, Rose Ruth	*New Rochelle, N. Y.*
Karlen, Helen Inza	*Monticello*
Karnopp, Joyce Marie ls	*Wautoma*
Karsten, Alma M.	*Columbus*
Karsten, Ina E. ls	*Burlington*
Kartheiser, Gertrude	*Aurora, Ill.*
Kasdin, Beatrice	*Madison*
Kasper, Alvina	*Lake Nebagamon*
Katz, Clara Serna	*Chicago, Ill.*
Katz, Marcell Nathalie	*Chicago, Ill.*
Kauffman, Grace Goodwin	*Hillsboro*
Kautz, Walter Frederick ls	*Madison*
Kaval, Ann B.S.	*Erie, Pa.*
Kavanaugh, James Nicholas	*Green Bay*
Keegan, Blanche Marie	*Chicago, Ill.*
Keetch, Mary Geneva	*Kansas City, Mo.*
Keetch, S. Geneva	*Kansas City, Mo.*
Kehl, Kenneth C. Ph.B. m	*Racine*
Keir, Mern Idole ls	*Madison*
Kelhofer, Grace Ann a	*Madison*
Keller, Helene Alice	*Eau Claire*
Keller, Melissa M.	*Verona*
Kelley, Mary Elisabeth ls	*Pittsburgh, Pa.*
Kelley, Olive Phelps a	*Chicago, Ill.*
Kelley, Virginia Maria	*Chicago, Ill.*
Kellock, Grace Jean	*Weyauwega*
Kelly, Edith Elgin	*St. Louis, Mo.*
Kelly, Elizabeth Sara	*Cambridge Springs, Pa.*
Kelly, George Thomas ls	*Madison*
Kelly, Irene M. ls	*Madison*
Kelly, Norman Patrick ls	*Waupun*
Kelly, Raphael Leo ls	*Evanston, Ill.*
Kelso, Dorothy ls	*Madison*
Kelso, Harold	*Kansas City, Mo.*
Kamena, Louise J. B. S.	*Pittsburgh, Pa.*
Kemp, Frank Frederick e	*Milwaukee*
Kemp, Thetis Evelyn B.A.	*Union City, Ind.*
Kendall, M. Aurilla B.A.	*Byron, Minn.*
Kengle, Grace Alberta B.A.	*McKeesport, Pa.*
Kennedy, Ethel Estelle B.S.	*Valley, Nebr.*

Kennedy, Helen Esther B.A.	*Valley, Nebr.*
Kent, Stewart Preston	*Hammond, La.*
Kentopp, Josephine	*Central City, Nebr.*
Kerckhoff, Alex Otto	*St. Louis, Mo.*
Kerckhoff, Daniel Martin	*St. Louis, Mo.*
Kerckhoff, Viola N. B.A.	*University City, Mo.*
Kerr, Carol Bernice	*Chicago, Ill.*
Kerr, Elsie Violet	*Champaign, Ill.*
Kerr, L. Bernice	*Marion, Ohio*
Kerr, Mildred Mae	*Champaign, Ill.*
Kesler, Mildred Alice B.A.	*Denver, Colo.*
Kessler, Lillian	*Waterloo, Iowa*
Kessler, Maxine Annabelle ls	*Waterloo, Iowa*
Ketelaar, William B. ls	*Delavan*
Ketsdever, Nell	*Texarkana, Tex.*
Ketterer, Armand Frederic	*Hayward*
Ketterer, Ruth E. a	*Madison*
Keyes, Frances Grace	*Port Huron, Mich.*
Khoury, Nicholas N. ls m	*Appleton*
Kienzle, Antoinette Marie	*South Milwaukee*
Kiewieg, Burton R. e	*Kewaunee*
Kieweg, Howard Hoffmann ls	*Kewaunee*
Kilburn, George Washington B.A.	*St. Louis, Mo.*
Kilburne, Edith Mary	*Oak Park, Ill.*
Kilker, Mary Jean a	*Egan, Ill.*
Killren, Charles Edward B.A.	*De Pere*
Kilroy, Daniel Edward	*Chicago, Ill.*
Kimball, Byron Lawrence B.A.	*Glidden*
Kimmell, Elsie Mae B.A.	*Kewanee, Ill.*
Kindschi, Jean Douglas ls	*Beloit*
King, Ben Frank e	*Watertown*
King, Lois Elizabeth	*Trinidad, Colo.*
King, Lucy Elizabeth	*Kansas City, Mo.*
King, Mary Anna	*Washington, D. C.*
Kinnaird, Katherine Sue	*Indianapolis, Ind.*
Kinney, Effie B.	*Kenosha*
Kinney, Harold John e	*Madison*
Kinney, Dorothy Anne	*Sault Ste. Marie, Mich.*
Kirby, Melvin H. e	*Ashland*
Kirch, Maxine Dorothy ls	*Mazomanie*
Kircher, Everett John ls	*Sheboygan*
Kirmse, Thomas William ls m	*Marinette*
Kirsch, William	*Madison*
Kirtley, Ethel Mae	*Kokomo, Ind.*
Kistler, Ellen Downey ls	*Madison*
Klein, Katherine Mary	*Oklahoma City, Okla.*
Kleinberger, Harry Hartung	*Lima, Ohio*
Kleinpell, Irma Eloise ls	*Madison*
Klettka, Wilma Helen ls	*Markesan*
Kline, Albert Adolph ls	*Verona*
Klingaman, William David	*Kenosha*
Klingler, Melba Olivia	*Decatur, Ill.*
Klingler, Zelma Irene B.A.	*Morrisonville, Ill.*
Klingman, Herbert Frederick g	*Watertown*
Klockow, Norma C. a	*Cazenovia*
Klug, Elmer Frank ls	*Milwaukee*
Klune, Frances Marion ls wls	*Chisholm, Minn.*
Knies, Elsa Catherine ls	*Milwaukee*
Knight, Ralph Glenroi	*Roanoke Rapids, N. C.*
Knipfel, Herbert McKinley	*Neillsville*
Knoff, Marion G. ls	*Milwaukee*

Knower, Eve Tenney M.A.	*Interwald*
Knox, Mary Maud	*Jackson, Mo.*
Knuth, Florence May B.A.	*Sturgeon Bay*
Knuth, Howard Herbert	*Milwaukee*
Knutson, Kermit Russell ls	*Blair*
Knutson, Thea Bertina	*Milwaukee*
Koch, Elenora Margaret	*Wauwatosa*
Koch Estella Alma	*Cleveland, Ohio*
Koch, Ferdinand Leonard Philip B.A. gm	*Wauwatosa*
Koch, Helen Marie	*Wauwatosa*
Koch, Wilbur Edward e	*Middleton*
Koehler, Emma Helen	*Webster Groves, Mo*
Koehler, Henry George M.A.	*Ripon*
Koehler, Miriam B.A.	*Lawton, Okla.*
Koenigsberg, Lucille	*Chicago, Ill.*
Koglin, Anna E. ls	*Thief River Falls, Minn.*
Kohley, Elizabeth Henrietta	*Lisle, Ill.*
Kolb, Dorothy Elizabeth ls	*Madison*
Koletzke, Kurt A.	*Appleton*
Kollath, Alvin	*Manitowoc*
Konnak, William F. ls m	*Racine*
Kooh, Clarence George B.A.	*Dubuque, Iowa*
Koper, Rickstie	*Forreston, Ill.*
Koppa, Thaddeus Marion	*Chicago, Ill.*
Koto, Holden	*Beloit*
Kotz, S. Edwin	*Monroe*
Kowalski, Jeanette C.	*Chicago, Ill.*
Kozel, Mary Alice	*Lodi*
Kraemer, Marion S.	*Cedarburg*
Kramer, Bessie Shirley	*Cleveland Heights, Ohio*
Kranzfelder, Joseph Godfrey	*Bloomer*
Krassen, Martha Mae ls	*Appleton*
Krause, Margaret	*Lakewood, Ohio*
Krause, Violette Margarette	*Huntley, Ill.*
Krchma, Lucy M.	*Casco*
Kremers, Margaret Alice	*Niagara Falls, N. Y.*
Kreps, James Theron	*Kendall*
Kreul, Christie Merry	*Laurens, Iowa*
Kreul, Mattie Leota B.A.	*Laurens, Iowa*
Kreutz, Arthur R. e	*La Crosse*
Kribben, Bertram D. ls	*Chicago, Ill.*
Krieger, Beatrice M. ls	*Milwaukee*
Krieger, I. Berneice	*Detroit, Mich.*
Kriegsman, Florence May B.A.	*Pekin, Ill.*
Kristof, Frank J. e	*Racine*
Krohn, Ruben G. ls	*Sullivan*
Kroncke, Harriet Hermine ls	*Madison*
Kropf, Georgie Bartlett	*Madison*
Krueger, Donna Olive	*Independence, Kans.*
Krueger, Dorothy Clara ls	*Milwaukee*
von Krug, Ella F. ls	*Madison*
Kruger, Agnes Pauline	*Gary, Ind.*
Kruger, Charlotte Louise	*Gary, Ind.*
Krummel, Doris Leonora	*Duluth, Minn.*
Kruschke, Herman Oscar B.A.	*Beloit*
Kruse, Katherine N.	*Enid, Okla.*
Kubec, Dorothy Ruth	*Kenosha*
Kuchenbecker, Cyrilla Mary ls	*Prairie du Chien*
Kuckuk, Rolland A. ls	*Shawano*
Kuehl, Carl Arthur B.S.	*Two Rivers*

Kuehlthau, William Anthony e	*Superior*
Kuehn, Conrad Andrew B.A.	*Toledo, Ohio*
Kuenne, Alma F.	*Ladysmith*
Kuhm, Myrtle Elizabeth	*Milwaukee*
Kuhner, Clarence A. B.S. g	*South Webster, Ohio*
Kuhr, Abe	*Dayton, Ohio*
Kulczynski, Isabella B.	*Chicago, Ill.*
Kurtz, Chester St. Clair	*Milwaukee*
Kurtze, Louise Selma	*Muskego*
Kurz, Donald A.	*Appleton*
Kutzke, William A.	*Portage*
La Budde, George Diefenthaeler	*Milwaukee*
Lacey, James Jerome	*Madison*
Lacey, Worth Lena	*Mount Vernon, Ill.*
Lacher, Jack Hammitt e	*La Grange, Ill.*
Lacke, Clement LeRoy ls m	*Madison*
Ladd, Charles Andrew	*Dodgeville*
Laemle, Robert M. ls m	*Marshfield*
Laitala, Lina Marie	*Ely, Minn.*
Lake, Mercedes Virginia	*St. Joseph, Mo.*
Lamber, Frances Emily	*Crothersville, Ind.*
Lamberts, Cora	*Manchester, N. H.*
Lamm, Raymond Robert ls	*Freeport, Ill.*
LaMore, Ruby Kristine ls	*Madison*
Lampert, Chester Graham ls	*Wheaton, Ill.*
Lampert, Mineftawa Therese B.A	*Neenah*
Lampman, Harry Gordon	*Mount Hope*
Landa, Henry Carl e	*Phillips*
Landgroff, Ethel Pyne	*Jeanette, Pa.*
Landis, Russell Henry	*Madison*
Landwehr, Erdmuth M.	*Milwaukee*
Lane, E. Neil W.	*Stephenville, Tex.*
Lang, Adeline	*Jamestown, N. Dak.*
Lang, Helen Mae	*Chicago, Ill.*
Langdon, Ray H.	*La Crosse*
Lange, John G. ls	*Mayville*
Lange, Murnice Evelyn	*Huron, Ohio*
Langer, Margaret Anne	*Pittsburgh, Pa.*
Langlands, Mattie Elizabeth	*Chicago, Ill.*
Langworthy, Emma Frances	*Edgerton*
Lanphier, Charles Henry	*Springfield, Ill.*
Lappin, Gerald David ls	*Milwaukee*
Larkin, Alice Cecelia	*Whitewater*
Larsen, Esther Evangeline B.A.	*Minneapolis, Minn.*
Larsen, Kathryn Elizabeth B.A.	*Evanston, Ill.*
Larson, Donald Julius ls	*McFarland*
Larson, Dudley	*Beloit*
Larson, Helen Margarette	*Rice Lake*
Larson, Joseph H. e	*Roberts*
Larson, Madelyne Mae	*River Forest, Ill.*
Larson, Mildred Ruth	*St. Paul, Minn.*
Larson, Robert H. ls	*Madison*
Larson, Vivian Dorothea	*Rice Lake*
LaRue, Emma	*Beaver Dam*
Last, Walter H. ls	*Sheboygan*
Latterner, Josephine	*Washington, D. C.*
Latterner, Virginia Burke	*Washington, D. C.*
Laubenstein, Harold John ls	*Port Washington*
Lautenbach, Hilda Lillian	*Weyauwega*
Lavign, Lillian	*New York, N. Y.*
Lawler, C. Genevieve B.A.	*Sappington, Mo.*

Lawler, Richard Harold	*Chicago, Ill.*
Lawler, Ruth Curry B.M.	*Castroville, Tex.*
Lawless, Dorothy Ann ls	*Waukesha*
Lawrence, Lee Edward ls	*Madison*
Lawrence, Rose Adeline	*Washington, D. C.*
Lawrence, Winnifred	*Elgin, Ill.*
Lawson, Ethel King B.A.	*Lubbock, Tex.*
Lawton, John Cliff	*Hillsboro*
Layde, Joseph Bernard	*West DePere*
Lazarus, Lucien	*Cincinnati, Ohio*
Lea, Helen G.	*Richland, Mo.*
Leach, Laura May	*Spencer, Iowa*
Leach, Mona Emily	*Lansing, Mich.*
Leader, Naomi Ruth	*Marengo, Iowa*
Leap, Olga	*Kingsley, Kans.*
Leard, Margaret	*Milwaukee*
Leasure, Rose Ernestine	*Arkansas City, Kans.*
LeBoy, Betty ls	*Oak Park, Ill.*
Lecklider, Alice Cary B.A.	*Santa Monica, Cal.*
LeClair, Irene Mary	*Two Harbors, Minn.*
LeClair, Jeannette Gertrude	*Two Harbors, Minn.*
Lecomte, Charles Frederic m	*Madison*
LeCount, Kenneth R. ls l	*Madison*
Lee, Julia Henrietta ls	*Mineral Point*
Lee, Laura Canfield	*Washington, D. C.*
Lee, Lona K.	*Clinton, Iowa*
Lee, Mildred Roberta ls	*Belleville, N. J.*
Lee, Wilma Jane Ph.B.	*Blue River*
Leesley, Jean Mather a	*Chicago, Ill.*
Lefler, Vonda M.	*Greenville, Mich.*
Lehmann, John W. ls	*Sparta*
Lei, Philip T. N.	*Shanghai, China*
Leicht, Bronte Homer B.A.	*New Lisbon*
Leiseck, Gussie B.A.	*New York, N. Y.*
Leith, Edna Jane	*Fond du Lac*
Leitner, Moses J. ls m	*New York, N. Y.*
Leitsch, William Waldo ls	*Columbus*
Lemcke, Florence Ruth B.A.	*Middleton*
Lencke, Lydia Elizabeth	*Middleton*
Lencke, Nora B. Ph.B.	*Middleton*
Lenehen, Helen M.	*Chicago, Ill.*
Lenschow, Henry John e	*Burlington, Ill.*
Leonard, Quille Chester	*Kenosha*
Lepp, Jeanette I. a	*Kenosha*
Lerner, Sadie H. B.S.	*New York, N. Y.*
Lescher, Theodore Leander	*Chicago, Ill.*
Leslie, Helen May	*Pittsburgh, Pa.*
Leslie, Sarah Aasena	*Stoughton*
LeTendre, Wanda Lucille	*Chippewa Falls*
Levenhagen, Marie C.	*Manitowoc*
Levin, Joseph J. B.A.	*Cleveland, Ohio*
Levings, Charles Sanford, Jr. ls	*Paris, Ill.*
Lewellen, Mary Jane B.A.	*Muncie, Ind.*
Lewis, Charles N. ls m	*Madison*
Lewis, Dorothy Adeline	*Middleton*
Lewis, Edith Alban	*Rhinelander*
Lewis, Edna June B.A.	*Iowa City, Iowa*
Lewis, Esther Margaret	*Grand Rapids, Mich.*
Lewis, Florence Christine	*Grand Rapids, Mich.*
Lewis, Louise G. M.A.	*New York, N. Y.*
Lewis, Wilma E.	*Austin, Minn.*

Lewon, Louis ls	*Glasgow, Mont.*
Ley, Ivan H.	*Arena*
Lhevinne, Constantin	*New Crandon, N. Y.*
Liddle, Sarah Allen	*Lake Forest, Ill.*
Lidgerwood, Dorothy	*Deerfield, Ill.*
Liebenberg, Rex L. ls	*Madison*
Liebsch, LaVerne Joseph	*South Milwaukee*
Life, Charlotte	*Oneida, N. Y.*
Lightbody, Catherine B.A.	*Mattoon*
Lightbody, Flora Agnes	*Mattoon*
Lightbody, Grace E.	*Mattoon*
Lillge, Milton George ls	*Appleton*
Limpus, Naomi Ruth	*St. Joseph, Mo.*
Lincoln, Rose M.	*Kenosha*
Lincoln, Winfred John	*Black Earth*
Linderman, Avis Winnifred M.A.	*Polo, Ill.*
Lindsay, Helen	*Laredo, Tex.*
Lindsley, Leslie	*Rockford, Ill.*
Lingard, Helen Ingaborg a	*Mount Horeb*
Lingenfelter, Mildred B.S.	*Lawrenceville, Ill.*
Linn, Virginia H. ls	*LaGrange, Ill.*
Lionberger, Mary Ruth	*Sappington Mo.*
Lippens, Margaret Alice ls	*Kewanee, Ill.*
Liske, Claire Catherine	*Milwaukee*
Litch, Mildred Eugenia	*Oregon*
Litow, Jerome James ls	*Milwaukee*
Little, Mary Owen	*Milwaukee*
Liu, Chen Tung ls	*Peiping, China*
Liu, George C. ls	*Shanghai, China*
Livandeis, Eulalie	*New Orleans, La.*
Livergood, Florence Belle ls	*Madison*
Livingston, Frank Harrison	*Wolf Point, Montana*
Lloyd, Mildred Jane	*Kansas City, Mo.*
Loan, Ruth B.A.	*Appleton*
Locher, Fred e	*Wisconsin Rapids*
Loew, Marjorie M.	*Milwaukee*
Loee, Robert e	*Madison*
Lofthus, Orin Merwin B.A.	*Orfordville*
Logan, Evalyn I.	*Madison*
Logeman, Lina Doris ls	*Milwaukee*
Lomax, Dorothy B.A.	*Lubbock, Tex.*
Lombard, Eleanor Henderson	*Newtonville, Mass.*
Lombardo, Rose	*Youngstown, Ohio*
Lonergan, Elizabeth E.	*Buckingham, Iowa*
Long, Emilie Alice	*Grand Rapids, Mich.*
Loomis, Mary Eloise B.A.	*Ottumwa, Iowa*
Loomis, Sally Marcia B.A.	*Elkhart, Ind.*
Looney, Susan Marie B.A.	*Pasadena, Cal.*
Looze, Archie J. ls	*Green Bay*
Lopez, Amy Kathleen	*Anderson, Ind.*
Lorenz, Josephine	*Iron River, Mich.*
Lorenz, Marian Sophia	*Iron River, Mich.*
Lorimer, Ellen E. B.A.	*Winnetka, Ill.*
Losey, Leslie Earl	*Independence, Kans.*
Losey, Mary Louise	*New York, N. Y.*
Loughran, Margery Belle B.Pd.	*Paterson, N. J.*
Lound, Alice Cornelia	*Tomahawk*
Lovelace, Ray e	*Woodford*
Lowe, Jessie a	*Algonquin, Ill.*
Lowe, Myron J. ,	*Fond du Lac*
Lowe, Rose Jane	*Phillips*

Lowenstein, S. L. Jr. L.L.B.	*Nashville, Tenn.*
Lowman, Neva Lynne ls	*Madison*
Lucas, Gwennola Elizabeth	*Peshtigo*
Lucas, Leila May	*Richmond, Mich.*
Lucas, Stella Kathryn	*Detroit, Mich.*
Lucas, Wheeler Lacey	*New Orleans, La.*
Ludens, Dorothy Jane	*Sterling, Ill.*
Ludwig, John James	*Lemont, Ill.*
Luebchow, Erwin O. B.A.	*Wausau*
Luebchow, Irma E.	*Wausau*
Luedke, Dorothy Ruth ls	*Chicago, Ill.*
Luell, Ruth Evelyn	*Milwaukee*
Lueloff, Irma Lenore	*Colby*
Lueth, Esther Marie	*Sauk City*
Lufkin, Eaton B.A.	*Oak Park, Ill.*
Lufkin, Merritt Newell ls	*Oak Park, Ill.*
Luker, Helen Gertrude Ph.B.	*Racine*
Lundeberg, Anna	*Beloit*
Lundeberg, Emma	*Beloit*
Lupton, Hugh Sidwell a	*Madison*
Lurvey, Margaret Mary	*Oconomowoc*
Lusby, William Ernest ls	*Chicago, Ill.*
Lusk, Agnes Sarah	*Jacksonville, Ill.*
Luther, Earl Wallace	*Stanley*
Lutz, Bernard James ls	*Chicago, Ill.*
Lynch, Margaret	*Pittsburgh, Pa.*
Lyneas, Marguerite	*Bloomington*
Lynn, Donald C. ls	*Mount Hope*
Lynn, Lawrence Walter	*Chicago, Ill.*
Lynn, Margaret Berniece	*Chicago, Ill.*
Lyin, Archie K.	*Augusta*
Lyons, William Lewis, Jr. e	*Appleton*
Lytle, Paul A. ls	*Cleveland, Ohio*
McAdams, Evelyn Catherine	*Chicago, Ill.*
McAfee, Ruth Evelyn	*Crafton, Pa.*
McAllister, Genevieve Regina	*Milwaukee*
McAllister, Irene Marie	*Milwaukee*
MacArdle, Mary Helena	*Indianapolis, Ind.*
McAteer, Ella Mae	*Pittsburgh, Pa.*
McAuliffe, John Theodore B.S. m	*Janesville*
McBean, Jean Cochrane	*Omaha, Nebr.*
McBrady, Ruth ls	*Evanston, Ill.*
McBroom, Margaret	*Geneseo, Ill.*
McCaffrey, Erma B.	*Beloit*
McCann, Veronica Rose	*Chicago, Ill.*
McCarter, Janet Ruth a	*Madison*
McCarthy, Blanche Marie B.A.	*Madison*
McCarthy, D. Waldo ls	*Sioux Falls, S. Dak.*
McCarthy, Frank D. m	*Ponca, Nebr.*
McCarthy, Katherine O'Shea ls	*Madison*
McCarty, Helen T.	*Tulsa, Okla.*
McCaskill, Yolande B.A.	*Wheatridge, Colo.*
McCauley, Gertrude Evelyn	*Chicago, Ill.*
McClelland, Ruth Lucile B.S.	*Madison*
McClenahan, Helen Frances	*Sycamore, Ill.*
McClure, Catherine Marie Ph.B.	*Toledo, Ohio*
McClure, Margaret A. ls	*Toledo, Ohio*
McClure, Susie C.	*Baltimore, Md.*
McClyman, Nina Ione	*Kilbourn*
McConaha, Fred	*Oaklandon, Ind.*
McConnell, Janie B.	*Edmonton, Alb., Can.*

McCooey, Lorraine Kathryn — *Oak Park, Ill.*
McCooey, Mary Coletta — *Oak Park, Ill.*
McCormick, Alice Hortense B.S. — *Madison*
McCormick, Grace Elizabeth — *Fond du Lac*
McCourt, Frances Josephine — *Chicago, Ill.*
McCrea, Ruth Joyce — *Butler, Pa.*
McCreight, David Wade B.S. — *Willard, Ohio*
McCurdy, Catherine Jean — *Redore, Minn.*
McCurdy, Elisha Keyes ls — *Madison*
McCuthchin, Ruby A. — *Arena*
McDaniel, William K. ls — *Darlington*
McDermaid, Donald W. ls l — *Rockford, Ill.*
McDermott, Marie Rose — *Oak Park, Ill.*
McDonald, Louise — *Indianapolis, Ind.*
McDonald, Willie Ray B.A. — *Abilene, Tex.*
McDonnell, Ellen Margaret (Nellie) B.E. — *Cascade*
McDonough, William B. ls m — *La Crosse*
McDougall, Francis Joseph — *Chicago, Ill.*
McDowell, Marjorie a — *Waukesha*
McElligott, Gertrude Josephine — *Omaha, Nebr.*
McElroy, Dorothy Helen Gladys — *Augusta*
McElwrath, Henry Rogers — *Corsicana, Tex.*
McEntire, Suzanne — *Reynolds*
McFarland, Fred C. B.A. — *Elmhurst, Ill.*
McFarlane, Robert W. — *Janesville*
McGaffey, Dorothy Ann — *Waupun*
McGarry, Genevieve M. — *Milwaukee*
McGarty, Walter D. ls — *Mauston*
McGee, Margaret — *Galesburg, Ill.*
McGill, Doris Charlotte — *Brill*
McGinley, Genevieve Elizabeth — *Janesville*
McGinn, Mary Wallin — *Eastman*
McGovern, Francis H. ls m — *Milwaukee*
McGrath, Mary Elizabeth — *Wilkinsburg, Pa.*
MacGregor, Cleo Ellen — *St. Catherine, Mo.*
McGrew, Helen Dorothy — *Pittsburgh, Pa.*
McGuire, Helen Mary — *Monticello*
McIlquham, Elizabeth Jane ls — *Madison*
McIlquham, Victoria Maria ls — *Madison*
McIntyre, Helen Irene — *Tecumseh, Mich.*
McKee, Ellen Louise — *Connersville, Ind.*
McKeith, Bessie Helen — *Milwaukee*
McKenna, Marcia M. ls — *Madison*
McKenna, Margaret Mary — *Lakewood, Ohio*
McKenzie, Margaret Christine ls — *Detroit, Mich.*
McKenzie, Ruby Muriel — *Arpin*
McKeown, Marjorie Evelyn B.A. — *Stronghurst, Ill.*
McKinley, Ferris Aaron — *Dodgeville*
McKinley, Harold Cromer — *Mansfield, Ohio*
McKy, Keith Beryl ls — *Blue River*
MacLachlan, Fergus G. — *Greenwood*
MacLaren, Harris B. — *Cleveland, Ohio*
McLaughlin, George William — *Duluth, Minn.*
McLaughlin, Lucile Elinor ls — *Eau Claire*
McLaurin, Hugh D. — *Lafayette, La.*
McLean, Wallace W. — *Arlington*
McLellan, Wanda Elizabeth — *Granite City, Ill.*
MacLeod, Edith Charlotte B.S. — *Swissvale, Pa.*
McLeod, Elizabeth Anabel ls — *Madison*
McLeod, Gordon M. e — *Madison*
McMahon, Margaret Cecelia — *Green Bay*

McMeekin, Marguerite L.	*Bellevue, Pa.*
McNamara, John A.	*Marion, Ohio*
McNamara, William A. ls	*Superior*
MacNurlin, Isabelle	*Richland Center*
MacNurlin, Margaret	*Richland Center*
McPherson, Helen M.	*Bement, Ill.*
McPhillips, Alice Elizabeth	*Darlington*
McReynolds, Anna Kathryn	*Mangum, Okla.*
MacWherter, William Kile B.A.	*Wilson, N. C.*
McWilliams, Richebourg Gaillard M.A.	*Oak Hill, Ala.*
Maaske, Clarence A. ls	*Mayville*
Mabie, Ethel E.	*Milwaukee*
Machael, Russell L. e	*Clinton, Iowa*
Mackenzie, Kenneth Burton	*Chicago, Ill.*
Mackin, Beda Roberta B.A.	*Madison*
Madderom, Marie Elizabeth	*Chicago, Ill.*
Madson, Gladys V.	*Marinette*
Maertz, Orman William	*Milwaukee*
Maes, Marjorie Claire	*Green Bay*
Magid, Moreton A. ls	*Madison*
Magner, Josephine H.	*Chicago, Ill.*
Mahan, Olive Edith	*New Haven, Conn.*
Mahlum, Olga Marie	*La Crosse*
Mahony, Kenneth L. g	*Mazomanie*
Maiben, Vera B.	*Lancaster*
Main, Barbara	*Upper Montclair, N. J.*
Maine, Frank Elfleda	*Evanston, Ill.*
Malecke, Dolores Barbara ls	*Stoughton*
Maley, Helen Brigit	*Dunkirk, Ind.*
Mallory, Mildred Bistorius	*Milwaukee*
Malmsten, Hazel Luella	*Vernonia, Ore.*
Malone, Louise	*St. Louis, Mo.*
Maltpress, Richard e	*Edgerton*
Manley, Robert Talbot e	*Glendale, Ohio*
Mann, Eva Mae	*Rice Lake*
Mann, Ferdinand Julius ls	*Milwaukee*
Mannis, Harry B.S. gm	*Stevens Point*
Mansell, Martha Lutton	*Pittsburgh, Pa.*
Manson, Dorothy West B.A.	*Wausau*
Marcoux, Lucine Ann	*Fond du Lac*
Markey, Margaret Mary B.S.	*Munhall, Pa.*
Markhoff, Marguerite	*Milwaukee*
Markl, Olive G. ls	*Congress Park, Ill.*
Markowitz, Leo Robert B.A.	*Cleveland, Ohio*
Marks, Gerson	*Chicago, Ill.*
Marks, Jeanette D.	*Chicago, Ill.*
Marks, Jennie Doris B.A.	*New York, N. Y.*
Mars, Marcelle Marie	*New Orleans, La.*
Marsden, Evelyne Marion ls	*Chicago, Ill.*
Marshall, Stanley Wesley Ph.B.	*Blanchardville*
Martell, Clyde Wesley B.E.	*Livingston*
Martelle, Nerville Austin B.A.	*Menomonee, Mich.*
Marten, Agnes Eleorna	*Eau Claire*
Marten, Miriam Molly	*Vinita Park, Mo.*
Martin, Eleanor Hughes	*Chicago, Ill.*
Martin, Frances	*Fort Thomas, Ky.*
Martin, Irene Muriel B.A. m	*Milwaukee*
Martin, Ruscal H.	*Hartland*
Martin, Steven John M.A. g	*Linden, N. J.*
Marvin, Eleanor Faulds	*Madison*
Mosley, Arpad Lopis	*Madison*

Mason, Jack William	*Canton, Ohio*
Matecki, Jeanne	*Chicago, Ill.*
Mather, Leona Henrietta	*Prairie du Sac*
Mathews, George Tilden	*Columbus, Ohio*
Mathews, Nina Burnette	*Colfax*
Mathews, Thomas Jennings ls	*Madison*
Matteson, Roger Pitkin B.S.	*Chicago, Ill.*
Mattews, Catherine Elizabeth	*Milwaukee*
Matthews, Gladys Grace	*Homestead, Pa.*
Matthews, Mrs. M. F.	*Grand Rapids, Mich.*
Matthias, Arthur John, Jr.	*Wauwatosa*
Matthies, Martin	*Sheboygan*
Mauck, Mary Lenora	*Princeton, Ind.*
Maurer, Eileen K.	*Cleveland, Ohio*
Maurer, Genevieve E.	*Cleveland, Ohio*
Maurer, Gertrude Emily	*Milwaukee*
Mautz, Helen Dorothy ls	*Madison*
Maxham, Jean B.A.	*Chicago, Ill.*
Maxson, Mabel B.A.	*Milton Junction*
Maxwell, Donald Arthur	*East Cleveland, Ohio*
May, Helen T.	*Peshtigo*
Mayer, Alfred John, Jr.	*Detroit, Mich.*
Mayer, Evangeline Catherine	*Kaukauna*
Mayer, Louise A.	*White Plains, N. Y.*
Maynard, Margaret Justine	*Holton, Kans.*
Mazur, Jeanette Victoria	*Chicago, Ill.*
Mead, Ethel Lee B.S.	*Delmar, N. Y.*
Mead, Franklin B.	*Madison*
Mead, Warren ls	*Madison*
Meagher, Agnes Irene	*Eau Claire*
Mear, Edgar	*Whitewater*
Mee, Charles H.	*Oklahoma City, Okla.*
Meer, Florence	*New York, N. Y.*
Meier, Martha Lois ls	*Monona, Iowa*
Meinke, Minnie H.	*Westfield*
Meinken, Edna	*Brooklyn, N. Y.*
Meinken, Elizabeth	*Brooklyn, N. Y.*
Meinken, Elizabeth R. M.A.	*Brooklyn, N. Y.*
Meisnest, Charles W. B.A.	*Manitowoc*
Meisnest, Earl ls	*Manitowoc*
Meisnest, Frank William Ph.B.	*Manitowoc*
Meister, Jacob John B.A.	*Cleveland, Ohio*
Melaragno, Umbert Alfred B.A.	*Cleveland, Ohio*
Melby, Oscar J.	*Madison*
Melcher, Dorlores Elizabeth	*Chicago, Ill.*
Melson, Addie B.A.	*Denton, Texas*
Melstrand, Charlotte I.	*Benoit*
Melvin, Dorothy Margaret	*Chicago, Ill.*
Melvin, Roy Earl B.A.	*Wausau*
Ménos, Jules a	*Port au Prince, Haiti*
Merlo, Stella E.	*Bangor*
Merriman, Laurene Evelyn	*Indianapolis, Ind.*
Mertsky, Grace Charlotte	*Western Springs, Ill.*
Meserale, Emily Blanche	*Mineral Point*
Messerli, Merrill Hall ls	*Madison*
Messinger, Margaret Barclay	*Branch Hill, Ohio*
Metcalf, Cecil J. B.S. m	*Dodgeville*
Metcalf, Isaac Fred	*Loganville*
Metcalf, Mildred Birdelle	*La Crosse*
Meter, Mildred	*Oshkosh*
Mewbourne, Atha	*Toledo, Ohio*

Meyer, Herbert R.	*Fond du Lac*
Meyer, Margaret Josephine	*Chicago, Ill.*
Michailoff, Mary	*Detroit, Mich.*
Michelman, Gladys Felicia	*Boston, Mass.*
Michels, Dorothy Leone	*Detroit, Mich.*
Mielke, Irven Samuel B.S.	*Sheboygan Falls*
Mielke, Leone M.	*Fond du Lac*
Mietenkoetter, Ruth Ann	*Cincinnati, Ohio*
Miglets, A. William	*Youngstown. Ohio*
Milbrandt, Wilson August e	*Monticello*
Milem, Matilda Lucille a	*Madison*
Miles, Jeanne Patterson	*Washington, D. C.*
Miley, George Petrie B.A.	*Chicago, Ill.*
Miller, Cile Ernestine	*Milwaukee*
Miller, Clarence Glen ls	*Westboro*
Miller, Dorothy Mary	*Chicago, Ill.*
Miller, Effie Elizabeth	*Randolph*
Miller, Enoch Walter ls	*Milwaukee*
Miller, Etta Marie	*Waupaca*
Miller, Frances Lyle	*Waterproof, La.*
Miller, Harry Ely ls l	*Milwaukee*
Miller, Helen Louise B.S.	*Chicago, Ill.*
Miller, Lucy Harrison	*Lynchburg, Va.*
Miller, Mae	*Chicago, Ill.*
Miller, Margaret Adeline	*Waupaca*
Miller, Mary Harrison M.A.	*Montgomery, Ala.*
Miller, Mildred	*Reynolds, Ill.*
Miller, Ramona Mayo	*Wadsworth, Ohio*
Miller, Raymond C. B.M.	*Madison*
Miller, Sonia Maxine	*Streator, Ill.*
Mills, Charles Selby ls m	*Madison*
Mills, Isabel May	*Endeavor*
Mills, Lois Susie ls	*Dallas, Tex.*
Mills, Marion L.	*Lake Mills*
Mills, Mildred Estella	*Eau Claire*
Mills, Phyllis Dorothy	*Chicago, Ill.*
Mills, Rosemary Clare	*Marion, Ill.*
Milos, Bertha Goldye	*Chicago, Ill.*
Milverstedt, Fred ls	*Madison*
Mimvich, Anne T.	*Davenport, Iowa*
Minard, Maye Currier	*Los Angeles, Cal.*
Minch, Bernhard Walter ls	*Jackson, Mich.*
Minnich, Agnes Louise	*York, Pa.*
Minnich, Mary Olive	*York, Pa.*
Minnich, Richard Frederick	*York, Pa.*
Minshall, Lois E. a	*Viroqua*
Minskey, Regina Helen	*Wautoma*
Minton, Maurice Wilbert ls	*Minocqua*
Mitchell, Irma Mae	*Louisville, Ky.*
Mitchell, Lorinne Rogers	*Tupelo, Miss.*
Mitter, Willibald Paul	*Milwaukee*
Mittermeyer, Edward Joseph ls m	*Boyd*
Moe, Gena	*Menomonie*
Moffett, Ruth Jennings B.S.	*Tampa, Fla.*
Moffitt, Genevieve Goodrich	*Casselton, N. Dak.*
Moffitt, Robert Carl B.A.	*Wyndmere, N. Dak.*
Monahan, Ruth Ann	*Chicago, Ill.*
Monk, Ella Margaret	*Washington, D. C.*
Monroe, Florence R.	*Shelbyville, Ill.*
Montague, Sally	*Port Arthur Tex.*
Montgomery, Margaret Lulu B.L.T.	*Grove City, Pa.*

Moody, Bertha Philips a	*Washington, D. C.*
Mooney, Grace	*Pittsburgh, Pa.*
Moor, Harold F. ls	*Columbus*
Moore, Maurice L. ls	*Madison*
Moran, John William e	*Ellsworth*
Moreau, Fred James L.L.B.	*Moscow, Idaho*
Morehead, Helen Elizabeth B.S.	*Lincoln, Nebr.*
Morgan, John E. ls m	*Spring Green*
Morgan, Peter James B.A.	*Hollandale*
Morgan, Ruth Pearce ls	*Galva, Ill.*
Morgan, Warren Mills ls	*Howarden, Iowa*
Morin, Robert Juel Elwood ls	*Eau Claire*
Moritz, Beatrice Babette	*Milwaukee*
Moritz, Hertha Clara	*Milwaukee*
Morris, Glendola	*Venedocia, Ohio*
Morris, J. Lucile	*Fort Atkinson*
Morrison, Donald W.	*Oak Park, Ill.*
Morrison, F. Mabel	*Barron*
Morrison, Luella Marguerite	*Mankato, Minn.*
Morse, Marjorie Jane	*Madison*
Mortensen, Mary Jane Seaman	*Milwaukee*
Morton, Marian Juliet B.S.	*Terre Haute, Ind.*
Morton, Shirley	*Strange Creek, W. Va.*
Mortonson, Morton Hansen	*Milwaukee*
Moseley, Forrest McKenzie ls	*Portage*
Mosher, Noel D. B.A.	*Cuba, Ill.*
Moss, Margaret Jean	*Madison*
Mossi, Dorothy Grace	*Brooklyn, N. Y.*
Mostov, Ida Beatrice	*Toledo, Ohio*
Mostov, Phyllis P. ls	*Toledo, Ohio*
Mottram, Lillian Caryl	*La Crosse*
Mouldie, Helena Blanche B.M.	*Madison*
Mountford, Doris	*Madison*
Moyer, Alice	*Gage, Okla.*
Moyer, Alice Mae	*Chillicothe, Mo.*
Muehlmeier, Helene Elizabeth a	*Monticello*
Mueller, Anna Agnes	*Madison*
Mueller, Antoinette	*Milwaukee*
Mueller, Florence E.	*Hot Springs, S. Dak.*
Mueller, George Fred	*Milwaukee*
Mueller, John R. e	*Milwaukee*
Mulcahy, Catherine Idella	*Delavan, Ill.*
Mullen, Dakotah L.	*Madison*
Mullen, Dorothy Eileen	*Ironwood, Mich.*
Mullen, Irma Frances	*Ironwood, Mich.*
Muller, Virginia A.	*Milwaukee*
Mulvaney, Ralph Arthur	*Eleva*
Mumford, John Kern, Jr.	*Youngstown, Ohio*
Munal, Ethel, Mrs.	*Springfield, Ill.*
Mundy, (Julia) May	*Fort Atkinson*
Munro, Myrtle Lucille B.A.	*Wilmot, S. Dak.*
Munson, Gertrude	*Erie, Pa.*
Munson, Mildred Onetta ls	*London*
Munson, Newell C. ls	*Prairie du Chien*
Muntz, E. Russell	*Elgin, Ill.*
Murdoch, Florence M.	*Bristol*
Murphy C. E. B.S.	*Chicago, Ill.*
Murphy, Frank A. e	*Appleton*
Murphy, Gretta Ellen	*Beaver Dam*
Murphy, Josephine J.	*Milwaukee*
Murphy, Lelah Vivian	*Laredo, Mo.*

Murphy, Ruth Katharine	*Laredo, Mo.*
Murray, John Edward ls	*Fond du Lac*
Murther, Alyce Elizabeth	*Shaker Heights, Ohio*
Myers, Ellen ls	*Racine*
Myers, Lewis Philip, Jr.	*Pittsburgh, Pa.*
Myhre, Nora V.	*Washburn*
Nagle, Elsa	*Waldo*
Nancarrow, Clara Beatrice	*Painesdale, Mich.*
Nappe, Clara Elizabeth	*Elkhorn*
Naresky, Dorothy B.A.	*Madison*
Nash, Dorothy Ethel ls	*Philadelphia, Pa.*
Nash, Edith Ziems	*South Bend, Ind.*
Nash, Mamie Ellen B.A.	*Walkerton, Ind.*
Nathan, Celia ls	*Milwaukee*
Nathness, Semore T. e	*Menomonie*
Naylor, Ruth	*Washington, D. C.*
Neal, Ruby Fay	*Washington, D. C.*
Necarsulvner, Evelyn ls	*New York, N. Y.*
Needleman, Rae T. ls	*Chicago, Ill.*
Neesvig, Eleanor a	*Madison*
Neill, William Folsom	*Madison*
Nelson, Alma Randina B.S.	*Brookings, S. Dak.*
Nelson, Elmer Edward B.A.	*St. Paul, Minn.*
Nelson, Florence Elizabeth ls	*Stevens Point*
Nelson, Howard C.	*Monmouth, Ill.*
Nelson, Lloyd E. B.E.	*Dekalb, Ill.*
Nelson, Mabel Agnes	*Wheeler*
Nelson, Mary Elizabeth	*White Plains, N. Y.*
Nelson, Maude E. M. B.A.	*White Plains, N. Y.*
Nelson, Muriel Besson B.S.	*Dows, Iowa*
Nelson, Parnell William ls	*Madison*
Nelson, Ruth Irene	*Chicago, Ill.*
Nelson, Ruth Lucille	*Seneca, Ill.*
Nelson, Thomas Martin	*Montfort*
Nerad, Raymond A. e	*Racine*
Nespor, Bajemil	*Manitowoc*
Neumann, Paula ls	*Brooklyn, N. Y.*
Neumann, Ruth	*Brooklyn, N. Y.*
Newbern, Kitty	*Marianna, Ark.*
Newcomb, Charles J. ls	*Waupun*
Newell, Elizabeth May	*Fort Wayne, Ind.*
Newell, Marquis Vernon ls	*Evanston, Ill.*
Newlin, Charles H. e	*Madison*
Newman, Adelaide Marie	*Delton*
Newman, Elsie Elizabeth B.A.	*Madison*
Newman, Hannah	*Milwaukee*
Newman, Lillian	*Chicago, Ill.*
Newman, William John a	*Delton*
Newton, Corleone Adele	*Hastings, Mich.*
Newton, Janet Catherine B.A.	*Sparta*
Newton, Marion Edith	*Appleton*
Nicewarner, Owen Edward ls	*Michigan City, Ind.*
Nichols, Florence May ls	*Madison*
Nichols, William Y. ls	*Amarillo, Tex.*
Nicholson, Mae E.	*Green Bay*
Nicholson, Martha DeFlearly	*Chicago, Ill.*
Nickel, George Elmer	*Warren, Ohio*
Nickerson, Dorothy	*Washington, D. C.*
Nickerson, Edward B.S.	*Minneapolis, Minn.*
Nides, Millicent Rhoda ls	*Duluth, Minn.*
Nielsen, Aksel Gunnar	*Chicago, Ill.*

Nieman, Alice Bertha a	*Cedarburg*
Niendorf, Emma L. a	*Mazomanie*
Nierman, Sidney Maurice	*Chicago, Ill.*
Nieuwenhuyse, Jacob Francis	*Kenosha*
Ninburger, Sylvia Catherine	*Cleveland, Ohio*
Nimtz, Frank Joseph	*Edgar*
Nissenbaum, James ls m	*Milwaukee*
Noble, Louise	*Dayton, Ohio*
Noon, Roger A.	*Peru, Ill.*
Noonan, Howard Bradshaw	*Lima, Ohio*
Norcross, John Ruger	*Highland Park, Ill.*
Nordine, Bessie Marie	*Hay Springs, Nebr.*
Norem, Walter ls m	*Bryant*
Normand, Hal C.	*Belton, Tex.*
Norris, Jane Margaret ls	*Manitowoc*
Norris, Russel Carter	*Elgin, Ill.*
North, Jeanette Gertrude ls	*Madison*
North, Stanley Henry	*Kohler*
Northrup, Margaret B.A.	*Johnstown, N. Y.*
Nott, Ruth Henrietta	*Milwaukee*
Notz, Natalie C.	*Milwaukee*
Nudelman, Miriam Stern	*Chicago, Ill.*
Null, Margaret Louise	*Shaker Heights, Ohio*
Nygard, Jennie Eleda	*Mount Horeb*
Nystrum, Gertrude Helman B.A.	*Mellen*
Oakes, Esther Marion B.S.	*Oak Park, Ill.*
Oakes, Imo E.	*Chillicothe, Ohio*
O'Brien, Anthony E. B.A. l	*St. Joseph, Mich.*
O'Brien, Dolorosa Ann	*Fond du Lac*
O'Brien, Katharine Helen B.A.	*Fond du Lac*
Ockershausen, Carla Henrietta	*Washington, D. C.*
Ockershausen, Marie Fredericka	*Washington, D. C.*
O'Connell, Helen H.	*Chicago, Ill.*
O'Connor, Cecile Colette	*Chicago, Ill.*
O'Connor, Elaine Snow ls	*Marinette*
Odell, Loretta M.	*Madison*
Oetting, Elvira Viola	*Trevor*
Ogden, Floella Flossie	*St. Joseph, Mo.*
Ogie, Minnie Catherine	*Fond du Lac*
Ogle, Reidar Christian Gerhardt ls	*Rena, Norway*
O'Gorman, Florence Irene	*St. Louis, Mo.*
O'Hara, Irene Mary	*Superior*
O'Hearn, Leslie Leo ls	*Manitowoc*
O'Keefe, Helen	*East St. Louis, Ill.*
O'Keefe, Tess Marie Ph.B.	*Fond du Lac*
Olbrich, Emil J. ls	*Harvard, Ill.*
Olbrich, Isabel Marie	*Madison*
Olds, Edward Bosworth ls	*Madison*
Olds, Harriet S. ls	*Madison*
Oleson, Margaret B.A.	*Lombard, Ill.*
Olmsted, Capitola Irma B.A.	*Milledgeville, Ill.*
Olsen, Harold Ellsworth ls	*Madison*
Olsen, Elsie M. Ziezler, Mrs.	*Cadillac, Mich.*
Olson, C. Hildegarde	*Knoxville, Ill.*
Olson, Carl Arthur B.L. m	*Superior*
Olson, Clara	*Hollandale*
Olson, Cora Eleanora	*Waupun*
Olson, Gilbert B. ls	*Neillsville*
Olson, H. Rudolph	*Spring Valley*
Olson, Leora Evelyn	*Mauston*
Olson, Mary Louise	*Jefferson*

Olson, Paul J. ls	*Mount Horeb*
Olson, Phyllis Mae a	*Madison*
Olson, William Arthur ls m	*Madison*
Olson, William Leslie	*Madison*
Olson, William O.	*Mount Horeb*
Olwell, Glenn F. ls	*Madison*
O'Mailey, Ethel	*Highland Park, Mich.*
O'Neill, Margaret Loretta B.A.	*Bridgeport*
Onsgard, Gladys Sevirna	*Madison*
Onsrud, Lawrence John e	*Stoughton*
Oppenheim, Herbert Edward	*Chicago, Ill.*
Orr, Ann L.	*Madison*
Orrick, William Pendleton	*Washington, D. C.*
Ortenstone, Ella Christene	*Minneapolis, Minn.*
Orth, Betty Hannum	*Madison*
Osborn, Barbara B.A.	*Tulsa, Okla.*
Osborne, Elizabeth Crawford	*Madison*
Osborne, Maude B.A.	*Sheridan, Ind.*
Oscar, Helen Grace	*Madison*
Osgood, Mary Frances	*La Grange, Ill.*
Oster, Leonard L.	*Milwaukee*
Osterberg, Hariette Alice	*Virginia, Minn.*
Ostrander, Allen Roys B.S. ls	*Madison*
Otjen, Theodore Putnam ls	*Milwaukee*
Oterson, Joseph Orlando B.A.	*Madison*
Otto, Mary Margaret	*Edinburg, Ind.*
Oudermeulen, Vera	*Waukegan, Ill.*
Owen, Muriel Maxine	*Sussex*
Owens, Elizabeth Underwood	*Corvallis, Ore.*
Padley, Grace B.A.	*Lodi*
Paff, Arthur Benjamin	*Elk Mound*
Page, Marian Irene B.S.	*Kingston, N. H.*
Pages, Mauricio G. ls	*Buenos Aires, Argentina*
Pagnucco, Charles A.	*West Allis*
Pahl, Elfrieda Joan	*Chicago, Ill.*
Palakow, Marshall Jack ls	*Milwaukee*
Paley, Bella ls	*Madison*
Palm, Marion Louise	*Galesburg, Ill.*
Palmer, Erma Pearl	*Magnolia, Minn.*
Palmer, Grace Louise	*Yale, Mich.*
Palmer, John Spaulding ls	*Waukegan, Ill.*
Palmeri, Joseph ls	*Madison*
Pancoast, J. Wilmer B.S.	*Mullica Hill, N. J.*
Paratore, Francesca ls	*Madison*
Pardee, Mary Bockes B.A.	*Chicago, Ill.*
Paris, Mary Gertrude B.S.	*Fisherville, Ky.*
Parker, Minnie Brooks B.A.	*Portsmouth, Va.*
Parker, Ruth Harriet	*Mason City, Iowa*
Parkin, Margaret Arline ls	*Madison*
Parkinson, Eleanor Katherine ls	*Madison*
Parks, Albert Stanley B.S.	*Terre Haute, Ind.*
Parks, Russell Solon M.A.	*Milford, Ill.*
Parman, Mabel L.	*Mazomanie*
Parrilli, William Frank	*Chicago, Ill.*
Parrish, Margie Marie	*Flint, Mich.*
Parrott, Robert Upshaw B.A.	*Smithville, Tex.*
Parsill, Ardelle J.	*Kansas City, Mo.*
Parsons, Ann Augusta	*Washington, D. C.*
Parsons, Joseph A. B.S.	*Hays, Kans.*
Partridge, Frances Jane	*Springfield, Ill.*
Patenaude, Lillian Alma	*Ashuelot, N. H.*

Paton, Helen M. B.A.	*Cleveland, Ohio*
Patterson, Bernadette Frances B.A.	*Wilmette, Ill.*
Patterson, Blanche Lucille ls	*Madison*
Patterson, Laurence George B.A.	*Hopedale, Ohio*
Patterson, Margaret M. B.A. g	*Bloomington*
Patterson, Mary Ann	*Wilmette, Ill.*
Patterson, Thomas Bosworth B.S.	*Westfield, Pa.*
Patterson, William Francis	*Escanaba, Mich.*
Patton, Eleanor Helen	*Red Oak, Iowa*
Paukner, Lillian Christine	*Wauwatosa*
Paulson, Carl Olynn ls	*Argyle*
Paulson Palmer R.	*Eleva*
Pautsch, Howard E.	*Milwaukee*
Pawlowski, John Anton e	*Menasha*
Pearlstein, Maurice	*Detroit, Mich.*
Pearson, Margaret Elizabeth Jane	*Dayton, Ohio*
Pease, Florence R. ls	*Richland Center*
Pech, Ruth Hermoine ls	*Manitowoc*
Pegler, Grace Katherine B.S.	*Lincoln, Nebr.*
Pellerin, Irene Leone	*Superior*
Pelton, Kathryn, Ruth	*Madison*
Peltz, Berenice Jean	*Chicago, Ill.*
Pennell, Irene Ella	*Grand Rapids, Mich.*
Penniston, Le Roy Harold	*Argyle*
Pergande, Dorothy Louise	*Milwaukee*
Perkins, Helen Roberts	*Kansas City, Mo.*
Perlman, Max S.	*Madison*
Perrin, Eugenie Loring	*Star Prairie*
Perrine, George Robert	*Aurora, Ill.*
Perry, Amy Leone ls	*Evansville*
Perry, Donald B. ls	*Superior*
Perry, Elsie Mae	*Baraboo*
Perry, Mary Blanche	*Spokane, Wash.*
Perssion, Leon ls m	*Milwaukee*
Perssion, Sidney	*Milwaukee*
Peter, Dorothy A.	*Wauwatosa*
Peters, Chester Fredrick ls	*Wauwatosa*
Peters, Eugene Walter B.A.	*Cleveland, Ohio*
Petersen, Alfred John e	*Madison*
Peterson, Elata Carrol	*Duluth, Minn.*
Peterson, Emily Hall	*Ellsworth*
Peterson, Frances Willard B.A.	*Wakonda, S. Dak.*
Peterson, Harvey Charles B.A.	*Madison*
Peterson, Josephine Clara	*Racine*
Peterson, Lu Marie	*Spaulding, Mich.*
Peterson, Ralph A.	*Wisconsin Rapids*
Peterson, Robert L. B.A.	*Scandinavia*
Petrie, Apallonia G.	*Stockbridge*
Pfafman, Helen Geraldine	*Kendallville, Ind.*
Pfeifer, Alice Marie	*Milwaukee*
Pfleger, Anita	*Milwaukee*
Pheatt, Anna Belle	*Milwaukee*
Philips, Edna Purtell	*Madison*
Phillips, Cornelia Kitura B.A.	*Memphis, Tenn.*
Phillips, Robert Thomas ls m	*Springfield, Ill.*
Pickle, Addine	*Aberdeen, Miss.*
Pickle, Fannie Mae	*Aberdeen, Miss.*
Picus, Yvette Belle	*Madison*
Pieper, Marie Louise B.A.	*Quincy, Ill.*
Pierce, Abbie Louise	*South Bend, Ind.*
Pierce, Helen Monica	*Hingham*

Pierce, Ruth Elizabeth ls	*Stevens Point*
Pike, Elsie M.	*Wabash, Ind.*
Pike, Frances Merle ls	*Detroit, Mich.*
Pike, William Harvey	*Plainfield, Ill.*
Pilcher, Mercer Elizabeth ls	*Macon, Ga.*
Pile, Marjorie E.	*Dodgeville*
Pilger, Hildegard Martha	*Ripon*
Pilger, Ruth M.A.	*Ripon*
Pilot, Florence Constance	*Milwaukee*
Pinch, Esther Francine	*Hillsboro*
Pinkerton, Carrie	*Waupaca*
Pitcairn, Mary Elizabeth ls	*Tarentum, Pa.*
Pivonka, John B. ls	*Sturgeon Bay*
Plavnick, Max ls	*Racine*
Pliskin, Reuben Robert	*Akron, Ohio*
Pliskow, Molly Blanche	*Detroit, Mich.*
Ploehn, Jean	*Bettendorf, Iowa*
Plotkin, Lillian J.	*Madison*
Plugge, Caroline Randall	*Washington, D. C.*
Plumb, Helen Elizabeth	*Manitowoc*
Plumlee, Elisabeth Moore a	*Madison*
Poage, Cecil M.	*Marshall, Mo.*
Pochter, Marjorie Ruth	*Chicago, Ill.*
Podruch, Anne M.	*Elroy*
Poindexter, Dorothy Pauline M.A.	*Indianapolis, Ind.*
Pokorny, Emily ls	*Madison*
Polacheck, Walter S. ls	*Milwaukee*
Polack, Harold	*Chicago, Ill.*
Pollack, Hannah Frances	*Burlington, Iowa*
Pollock, Harry ls	*Madison*
Pollworth, Viola Frances	*Milwaukee*
Pommerenck, Henry	*Madison*
Poor, Dorothy Alice	*Clinton, Ind.*
Pope, Anne French B.A.	*Chattanooga, Tenn.*
Popham, Estelle Loraine	*Chillicothe, Mo.*
Popkin, Henry R. e	*Superior*
Popp, Harold R. ls	*Hutchison, Minn.*
Porch, Frances Dees	*Reading, Mass.*
Porter, Ethel Virginia	*St. Louis, Mo.*
Porter, Harry A. ls	*Highland Park, Ill.*
Porter, James Dunlop ls	*Milwaukee*
Porter, Paul A. a	*Mukwonago*
Porter, Roderick Arthur ls	*Portage*
Poser, John Falk ls	*Columbus*
Potter, Leonora Vaughan	*Louisville, Ky.*
Potter, Ruth M.	*Lake Mills*
Potter, Winifred M. B.A.	*Quincy, Ill.*
Potts, Belva Margaret	*Waupaca*
Potts, Dorothy	*Salineville, Ohio*
Potts, Joseph Franklin	*Ackerman, Miss.*
Pouzar, Libbie Joanna	*Chicago, Ill.*
Powell, Frances Faith B.A.	*Western Springs, Ill.*
Powell, Fred Jackson	*Flushing, N. Y.*
Powell, Pat Russell B.S.	*Terre Haute, Ind.*
Powell William T. ls	*Stevens Point*
Power, William Whiteman, Jr. ls	*Madison*
Powers, Eloise Ann	*Fargo, N. Dak.*
Powers, Florence Anne ls	*Elizabeth, N. J.*
Powers, Mary Margaret	*Chicago, Ill.*
Poynter, Carol Winnie	*Richland Center*
Pratt, Gertrude V. M.A.	*Mount Clemens, Mich.*

Preble, Muriel Esther	*Humboldt, Iowa*
Prendergast, Jerome Gabriel B.A.	*Dubuque, Iowa*
Prescott, Alice Margaret B.A.	*Muskegon, Mich.*
Press, William A.	*Chicago, Ill.*
Price, Anita	*Portage*
Price, Arthur Berdell ls m	*Prescott*
Price, Cora Belle	*Mason City, Iowa*
Price, Emily Augusta, Mrs.	*Madison*
Price, Jessie Ethelyn ls	*Denver, Colo.*
Price, Kate Rathbun ls	*Milwaukee*
Prideaux, Theodore L. a	*Dodgeville*
Priehs, George William	*Mount Clemens, Mich.*
Proctor, Ruth C.	*New Orleans, La.*
Proudfoot, William S. e	*Chicago, Ill.*
Pruitt, Moses Chelsea B.A.	*Connersville, Ind.*
Pryce, Alice J. B.A.	*Rock Island, Ill.*
Puchner, Irving Alfred B.A.	*Edgar*
Pulliam, Virginia M.	*Glenarm, Ill.*
Purdy, Reva Alice ls	*Pepin*
Puttee, Winnifred May B.A.	*Winnipeg, Manitoba, Can.*
Quade, Elizabeth Helen B.M.	*Kewaskum*
Quale, Irving Samuel e	*Madison*
Qualle, Ida M.	*Martell*
Quam, Margaret Jeanette ls	*Lodi*
Quick, Ruth Marie	*Dubuque, Iowa*
Quigg, Mary Marjorie	*Richmond, Ind.*
Raasch, LaVerne Amanda	*Milwaukee*
Rabin, Charlotte Marian ls	*Milwaukee*
Rabinovitz, Lily ls	*Cleveland, Ohio*
Rabinovitz, Samuel ls	*Milwaukee*
Raccoli, Theodore e	*Milwaukee*
Radford, George Anderson	*Moberly, Mo.*
Radtke, Roy Arthur ls	*West Allis*
Rahlfs, Virginia Rose ls	*Chicago, Ill.*
Raines, Ona Cornelia	*Tulsa, Okla.*
Ralph, Henriette Elizabeth B.M.	*Montfort*
Ramsey, Robert H. e	*Racine*
Ramsey, William Russell ls	*Chicago, Ill.*
Ramstad, Ethel M. B.A.	*Hickson, N. Dak.*
Ramstad, Isabelle C. B.A.	*Fargo, N. Dak.*
Ramstad, Jean Louise	*Superior*
Ramstad, Olinda C.	*Superior*
Rankin, Margaret Allan B.A.	*McKeesport, Pa.*
Rapp, Bereniece Sheffield	*River Forest, Ill.*
Rapp, Marguerite Neilsen	*Detroit, Mich.*
Rascher, Rose Margaret	*Chicago, Ill.*
Rasmussen, Arthur John	*Kenosha*
Rasmussen, Irene Caroline	*Phillips*
Rasmussen, Walter S. e	*Whitehall*
Rathke, Minnie E.	*Oconto*
Rap, Marian	*Washington, Mo.*
von Ravenswaay, Arie Cornelius	*Boonville, Mo.*
Ray, Ethel B. B.S.	*Madison*
Ray, Olive R.	*Windsor*
Rea, Ralph Jefferson B.A.	*Evansville, Ind.*
Read, Frances Townsend	*Laurium, Mich.*
Reader, Annabel	*Blue Ash, Ohio*
Reardon, Margaret Mary	*Chicago, Ill.*
Reber, Helen	*Wheaton, Ill.*
Rebholz, Russell Adelbert a	*Portage*
Reeb, Esther Louise B.A.	*East St. Louis, Ill.*

Reed, Alice L.	*Auburn, Ind.*
Reed, Frieda E. a	*Madison*
Reedy, Catherine Bogot	*Cincinnati, Ohio*
Reep, Louis Geraldine B.A.	*Indianapolis, Ind.*
Rees, Helen Betha a	*Green Bay*
Reese, Eleanor A. ls	*Oak Park, Ill.*
Reeve, Olive Ruth	*Mazomanie*
Reeves, Mary Lois	*Madison*
Rehder, Doris Fay	*Fort Dodge, Iowa*
Rehwald, Charles Arthur ls	*Racine*
Reichenbaum, Robert ls	*Milwaukee*
Reichert, C. Lorena	*Madison*
Reichert, Edward Clark ls	*Duluth, Minn.*
Reid, Herbert P.	*Friendship*
Reid, Myron Smith	*Oconomowoc*
Reidenbach, Mary Carolyn	*Lake Mills*
Reilly, Genevieve Estella ls	*Fond du Lac*
Reilly, Lottie Catherine	*Madison*
Reimers, Warren Denkmann e	*Hammond, La.*
Reimeck, Carmen Marie	*Elkhart Lake*
Reithmeier, Edwin Reinhold ls	*Doylestown*
Reitz, Helen C.	*Clayton, Mo.*
Reitzel, Della Dickerhoff	*Milwaukee*
Rencenberger, Richard	*Pendelton, Ind.*
Renner, Edwin Ross	*Chicago, Ill.*
Rentz, Lucille E. ls	*Madison*
Reppell, Esther Josephine	*Kansas City, Mo.*
Resan, Stephen Francis e	*Racine*
Ress, Ruth Laura ls	*Hartford, Conn.*
Rettich, Edward B.C.S.	*Germantown, Ohio*
Reynolds, Ella May B.S.	*Columbus, Ohio*
Reynoldson, Jack ls	*Madison*
Rhode, Richard Masson	*Madison*
Rhymer, Bessie Vera	*East St. Louis, Ill.*
Rice, Carol Margaret M.A. m	*Madison*
Rice, Jennie Adella M.A.	*Marinette*
Rice, Lela Mae	*Racine*
Rich, Claire	*Yankton, S. Dak.*
Rich, Eleanor M.	*Houston, Tex.*
Richard, Elizabeth Anastasia	*Columbus, Ind.*
Richardson, Aleda Etta	*Maiden Rock*
Richardson, Alice Elizabeth B.S.	*Dixon, Ill.*
Richardson, Kathryn Eugenie	*New York, N. Y.*
Richman, Laurence Stanley ls	*Brooklyn, N. Y.*
Richmond, Jessie June ls	*Lodi*
Richter, Bernice Ann	*Helena, Mo.*
Riebe, Clifford Otto e	*Milwaukee*
Rieder, Helen L.	*Toledo, Ohio*
Riegel, Garland Miller B.A.	*Palymra, Mo.*
Riegler, Elizabeth Mary	*Pittsburgh, Pa.*
Rielly, Margaret Irene	*Rock Valley, Iowa*
Ries, Michael Fred ls m	*Lomira*
Riesing, Elwood Franklin	*Milwaukee*
Riley, Martha	*Madison*
Ripin, Louise	*Lawrence, N. Y.*
Risley, Clarence Tower B.S.	*Conneaut, Ohio*
Risty, Karl Thorsten M.S. g	*Madison*
Rittenhouse, Carl H. B.A.	*Northville, S. Dak.*
Ritter, Alice Abigail	*Chicago, Ill.*
Ritter, Marie Jeanette	*Chicago, Ill.*
Ritter, Reginald Paul ls	*Milwaukee*

Rivard, Rhea Rose	*Madison*
Roach, Cornelia Bell M.A.	*Buffalo, N. Y.*
Robb, Eleanor Masters ls	*Chariton, Iowa*
Robben, Ida Phyllis	*Lakewood, Ohio*
Roberts, Bernard E.	*Fairfield, Ill.*
Roberts, Jane B.A.	*Litchfield, Ill.*
Roberts, Jean Mildred ls	*Bloomington*
Roberts, Jean Stephenson B.S.	*Pawhuska, Okla.*
Roberts, John Roger e	*Chicago, Ill.*
Roberts, Lulu Mary	*Mazomanie*
Roberts, Marian Frances	*Chicago, Ill.*
Roberts, Nita Woods	*Madison*
Roberts, Rollo Hibbard ls	*Chicago, Ill.*
Robertson, Donald ls	*Madison*
Robinson, Genevieve	*Marceline, Mo.*
Roby, Harlow Scammon e	*Milwaukee*
Rochlus, Lucille Frances	*Sheboygan*
Rock, Edward P.	*Hudson*
Rock, Marion	*Columbus, Ohio*
Rockwell, Gale Grant	*Richland Center*
Roddick, Harrison Arnold ls	*Platteville*
Rodeheaver, Esther Louise	*Wausau*
Roden, Robert Mors e	*Madison*
Rodenbaugh, Fred Hugo B.S.	*Barberton, Ohio*
Roemer, Edward Pier ls	*Fond du Lac*
Roemer, Milton Aaron ls	*Rubicon*
Roeming, George Carl e	*Milwaukee*
Roesch, Dorothy Marion	*Chicago, Ill.*
Roey, Ruth	*New York, N. Y.*
Roffers, Clara Henrietta	*De Pere*
Rogers, Barton Joseph	*Oshkosh*
Rogers, Clarence J.	*Elgin, Ill.*
Rogers, Mary Adora	*Soperton*
Rogers, Walter C. ls m	*Glen Ellyn, Ill.*
Rohan, John E.	*Kaukauna*
Rohn, Robert Alvin e	*Hibbing, Minn.*
Rood, Alice Ekern	*Madison*
Rood, Leman Jerrold B.A.	*Milton*
Rooney, Florence Marie	*Cincinnati, Ohio*
Root, Elliott DeWitt B.A. m	*Sparta*
Roper, William Denis	*Madison*
Rose, Elaine Lois	*Newton, Kans.*
Rose, J. Harold	*Mukwonago*
Rose, Marie Norma	*Brooklyn, N. Y.*
Rose, Norman James	*Chicago, Ill.*
Rosen, Gertrude ls	*Chicago, Ill.*
Rosenblatt, Lea G. ls	*Omaha, Nebr.*
Rosenblum, Morris Sol	*Youngstown, Ohio*
Rosenfeld, Louise Williams	*Chicago, Ill.*
Ross, Earl Alvin	*Chicago, Ill.*
Rossmaessler, Edwin Otto	*Madison*
Roth, Sol A. ls	*Beloit*
Rothe, Lloyd Bertrand ls	*Madison*
Fothstein, David Baron L.L.B.	*Chicago, Ill.*
de Rouen, Margaret Ameline	*Erath, La.*
Rowe, Ann Pascoe	*Montreal*
Rowe, Dorothy H.	*Milford, Mich.*
Rowland, Helen Angeline B.A.	*Lincoln, Nebr.*
Royer, Nellie Beatrice	*Detroit, Mich.*
Royer, Norrell Elizabeth	*Richmond, Va.*
Royston, Alice Athleene	*Oak Park, Ill.*

Rubendall, Willard Charles B.A.	*Freeport, Ill.*
Rud, Magdalene A.	*Sioux Falls, S. Dak.*
Ruedt, J. Allen	*Milwaukee*
Ruez, Elizabeth	*Milwaukee*
Rugland, Ruth Anne B.A.	*Fergus Falls, Minn.*
Rummel, Dorothy Elizabeth	*Delavan, Ill.*
Ruppa, Gertrude E.	*Milwaukee*
Rusch, Erwin G. e	*Merrill*
Rusch, William H. e	*Madison*
Rusknuff, Camille A. ls	*Madison*
Ruskauff, Irene Mary	*Madison*
Ruskin, Louis ls	*Madison*
Russell, Clara M.	*St. Louis, Mo.*
Russell, Clyde Herbert	*Marinette*
Russell, Emmett John B.A.	*Dubuque, Iowa*
Russell, Forrest Orlando e	*La Crosse*
Russomanno, Raymond Lawrence	*Newark, N. J.*
Rutel, Abraham ls	*Madison*
Rutherford, Frances Elizabeth	*Wellsville, Ohio*
Ruttenberg, Jerome Jay ls	*Madison*
Rutter, Bernice Elizabeth ls	*Madison*
Ryan, Catherine	*Watertown*
Ryan, Evelyn Margaret	*Chicago, Ill.*
Ryan, Evelyn Marie	*Chicago, Ill.*
Ryan, Florence Catherine	*Kewanee, Ill.*
Ryan, Laura Ethelyn	*Rockford, Ill.*
Ryerson, Sam B.A.	*Rock Island, Ill.*
Rynbergen, Winifred Hilda	*Manchester, N. H.*
Saalsaa, Ona Gilma	*Argyle*
Sachs, Irma Emma	*Chilton*
Sachtjen, Dorothy Winifred	*Boscobel*
Saeman, Theophila Mary	*Cross Plains*
Saenger, Adeline Maude	*Cleveland, Ohio*
Sage, Georgianna Ruth ls	*Port Edwards*
Sager, Jean L.	*Waukegan, Ill.*
Sakmann, Gertrude ls	*Milwaukee*
Salaty, Stan W.	*Milwaukee*
Salk, Ethel Sarah	*Chicago, Ill.*
Salk, Mabel Molly ls	*Chicago, Ill.*
Salmi, Beatrice Effie	*Marquette, Mich.*
Saltus, Charles N. B.A. g	*Madison*
Sanden, Elva I. ls	*Rio*
Sanders, David Edwin	*El Paso Tex.*
Sanner, Dorothy Alene ls	*West Allis*
Sapp, Marian ls	*Ottawa, Ill.*
Sarfatty, Isaac J. ls m	*Milwaukee*
Saroken, Etta	*New York, N. Y.*
Sasser, Nancy Adams ls	*Princeton, W. Va.*
Sather, Irene Lillian	*Galesville*
Sauer, Hans C.	*Milwaukee*
Saunders, Laura Meada	*Lancaster, Ohio*
Saunders, Vincent Henry	*Albany, Mo.*
Sauthoff, Hermine Elizabeth ls	*Madison*
Savage, Gordon Edman B.A.	*Columbus, Ohio*
Sawyer, Leah Marie ls	*Hartford*
Sawyer, Lorraine D. ls	*Hartford*
Sayler, Margaret Wilhelmenia	*Kansas City, Mo.*
Scaccia, Frank Saverio	*Zion, Ill.*
Scallon, Brighidin Trumble Ph.D.	*Hancock, Mich.*
Scanlon, Marie Agnes	*New London*
Scarseth, Alice Lenora ls	*Madison*

Schaaf, Dan, Jr. a	*Eau Claire*
Schaars, Marvin Arnold g	*Madison*
Schad, Clara B.A.	*Plainview, Minn.*
Schad, Mary Anne B.A.	*Plainview, Minn.*
Schaefer, Erwin Benjamin	*Milwaukee*
Schalk, Ella Martha B.A.	*Berlin*
Schaller, John A. a	*Barneveld*
Schaller, Ruth	*Milwaukee*
Schatte, Jeanette	*Oak Park, Ill.*
Schebrat, Pauline	*Petoskey, Mich.*
Scheerer, Betty	*Chicago, Ill.*
Scheerer, Elsa M.A.	*Ottawa, Ill.*
Schefelker, George ls	*Marinette*
Schefelker, Irving George	*Marinette*
Scheibel, Greta Joanne ls	*Madison*
Scheiber, Arthur V. Jr. e	*Chicago, Ill.*
Schempf, Foster John ls	*Watertown*
Schernecker, Kathryn C. a	*Madison*
Scheufler, Doris Gladys B.A.	*Merrimac*
Schiesser, Ruth Katharine	*Monroe*
Schilling, Elisabeth Magdalene	*Darlington*
Schindler, Mildred Delane B.S.	*Columbus, Ohio*
Schirmer, Mariele B.A.	*Milwaukee*
Schlagenhauf, George Kenneth	*Beloit*
Schleunes, Albert Herman	*Kiel*
Schlintz, Murray E.	*Boscobel*
Schloemer, Howard Frederick ls	*Jackson*
Schlosser, Francis F.	*Algoma*
Schlueter, Ruth E.	*Milwaukee*
Schlundt, Cornelia Margaret	*Dover, Ohio*
Schmeltz, Ruth Margaret	*Pittsburgh, Pa.*
Schmid, George Conrad e	*Neenah*
Schmidt, Evelyn Benner	*Detroit, Mich.*
Schmidt, Helen	*Chicago, Ill.*
Schmidt, Jacob ls	*Milwaukee*
Schmidt, John Reik	*Stanley*
Schmiedicke, Paul H. B.S. m	*Manitowoc*
Schmidt, Louis Charles	*Madison*
Schmitz, William Adam	*Waunakee*
Schmuck, Alvera Elizabeth	*La Crosse*
Schnapp, Lillian	*Tallula, Ill.*
Schnathorst, Corinne Margaretha	*Moline, Ill.*
Schneberger, Blanche Agnes	*Riverside, Ill.*
Schneberger, Mildred J.	*Riverside, Ill.*
Schneberger, Viola Katherine	*Riverside, Ill.*
Schneider, Anton Frank	*St. Louis, Mo.*
Schneider, Elsa ls	*Calumet City, Ill.*
Schneider, Margaret Haywood	*Washington, D. C.*
Schneyer, Dorothy Rae	*Akron, Ohio*
Schnittger, Margaret Adelaide (Gretchen)	*Superior*
Schnorr, Thomas William e	*Two Rivers*
Schock, Alma Carolyn	*Elgin, Ill.*
Schoenfield, Catherine Emma ls	*Madison*
Scholfield, Randall T.	*Ableman*
Schonwald, Junia	*Oklahoma City, Okla.*
Schoonover, Bertha Elene	*Madison*
Schoonover, Blanche Irene	*Madison*
Schoerer, Margaret	*North Freedom*
Schorlemmer, Lena Amalia ls	*Llano, Tex.*
Schottenfels, Bertha	*Chicago, Ill.*
Schrader, Helen Veronica B.S.	*Pueblo, Colo.*

Schram, Leonard	*Chicago, Ill.*
Schrantz, Frederick George B.A.	*Warrenton, Mo.*
Schrantz, George Werner B.A.	*Warrenton, Mo.*
Schrantz, Mrs. G. Werner B.A.	*Hot Springs, Ark.*
Schroeder, Bernice Ann	*Chicago, Ill.*
Schroeder, Jennette T. ls	*Racine*
Schroeder, Laura Johanna M.S.	*Berkeley, Cal.*
Schroeder, Louis A.	*Princeton*
Schroeder, Raymond William	*La Grange, Ill.*
Schrofer, Charles George B.S.	*Kenosha*
Schuchardt, Charlotte Rosalie ls	*Milwaukee*
Schuehle, Robert George ls	*Oconomowoc*
Schuerman, Hilmer Gilbert	*Milwaukee*
Schuette, Helen Clara	*Manitowoc*
Schuler, Frederick William	*Madison*
Schumacher, Marcella Patricia ls	*Waunakee*
Schumann, Victor ls	*Mayville*
Schutt, John W. e	*Madison*
Schwandt, Irma M.	*Wauwatosa*
Schwartz, Bertha	*Chicago, Ill.*
Schwartz, Charles	*Milwaukee*
Schwartz, Everett B. e	*Milwaukee*
Schwarz, Miriam Christine B.S.	*Jackson, Mo.*
Schweers, Marvin F. B.S.	*Shawano*
Schwefel, Lorraine J. ls	*Milwaukee*
Schweger, J. Anne	*Green Bay*
Schwenger, E. Minette	*Milwaukee*
Schwid, Nathan ls	*Milwaukee*
Schwingel, Christian H. g	*Madison*
Schwingel, Katherine Marie	*Blue River*
Schwingel, Lucille Marie ls	*Madison*
Scotchbrook, Genevieve Mae	*Warren, Ill.*
Scott, Faye Beatrice	*Buffalo, N. Y.*
Scott, Margaret Theresa	*River Forest, Ill.*
Scott, Marjory Louise	*Stoughton*
Scott, Mary Dean ls	*Hines, Ill.*
Scott, Morris James e	*Madison*
Scott, William Wendell	*Virden, Ill.*
Seabury, Lorna Gertrude ls	*Pisgah, Iowa*
Seamonson, Burgess Ingvold	*Stoughton*
Searles, Evelyn Ellen	*Monroe*
Seegar, Nellie	*Oak Park, Ill.*
Seelman, Margaret Mary	*Milwaukee*
Seeuws, Thomas Ford	*New Orleans, La.*
Segrue, Mary Clarice	*Chicago, Ill.*
Selle, Carl Martin	*Milwaukee*
Sellery, Jean ls	*Madison*
Sellmyer, Gertrude Frances	*Pontiac, Ill.*
Selover, Victor Russell B.S.	*Brooklyn, N. Y.*
Selzer, Norma Marie	*Wauwatosa*
Semler, Harry Edwin B.S.	*Hagerstown, Md.*
Senter, Anna B.	*Brooklyn, N. Y.*
Serbst, Charles A.	*Bristol, R. I.*
Sexton, Irene Marie	*Oshkosh*
Sexton, Reeda	*Streator, Ill.*
Seyberth, Leonard Jones ls	*Eau Claire*
Seybold, Freda Pauline	*Richland Center*
Seymour, Richard M. ls	*Milwaukee*
Shafer, Sereno Walter B.S.	*Athens, Ohio*
Shallenberger, Paul Lawrence	*Canton, Ill.*
Shane, Mary De Ette	*West Salem*

Shapiro, Hannah Franks M.A.	*Brooklyn, N. Y.*
Sharkey, Lousie	*Marshall, Ill.*
Sharp, Sarah Louise ls	*Madison*
Sharpe, Donald C. ls	*Verona*
Sharpe, Mildred B.A.	*Burlington, N. C.*
Shattuck, Dorothy Geneva ls	*Madison*
Shaver, Virginia Laurel ls	*Milwaukee*
Shaw, Ferne E.	*Randolph*
Shaw, Marcia	*Toledo, Ohio*
Shaw, Mary Lucy	*Cameron, Mo.*
Shea, Edward J.	*Westfield*
Shea, Katherine Gertrude	*Chicago, Ill.*
Shea, Margie Lucille	*Chicago, Ill.*
Shea, Melva Melissa	*Weehawken. N. J.*
Sheaff, Barbara Hall	*Pittsburgh, Pa.*
Shebesta, Raymond Joseph ls	*Manitowoc*
Sheehan, William Clifford ls m	*Portage*
Shelton, Agatha May	*Eureka*
Shepardson, David Henry	*La Crosse*
Sheppard, Vera M.	*Detroit, Mich.*
Sher, Helen Ruth	*Chicago Heights, Ill.*
Sherman, Alma N. M.A.	*Maquon, Ill.*
Sherman, S. Braymer ls	*Racine*
Shermer, Robert Emanuel	*Youngstown, Ohio*
Sheveland, Margaret Bertha	*Rochelle, Ill.*
Shideler, Dorothy Jane ls	*Indianapolis, Ind.*
Shields, Madeline	*Madison*
Shimkus, Alex J. ls	*Chicago, Ill.*
Shirley, Mabel Juliana B.A.	*Northfield, Minn.*
Shirley, Ruth E.	*Chicago, Ill.*
Shoemaker, Dorothy Suzanne B.S.	*Somerset, Pa.*
Shriman, Harry J.	*Chicago, Ill.*
Shugart, Helen Rebekah	*Princeton, Ill.*
Shunk, Levon Aileeen B.A.	*Freeport, Ill.*
Shuster, Olive May	*Newton, Pa.*
Sibley, Eleanor Pickering	*Emory, Va.*
Sichler, Helen Virginia	*Alma Center*
Sichling, John Henry	*Milwaukee*
Siders, Minnie Olive	*Milwaukee*
Sieber, Janez J.	*St. Louis, Mo.*
Siegel, Howard W. ls	*Eveleth, Minn.*
Siegel, William Emil ls	*Milwaukee*
Siever, Carrie	*Chicago, Ill.*
Silbeck, Ted.	*Columbus*
Silber, Fred David ls	*Highland Park, Ill.*
Silver, Bertha B.S.	*Tigerton*
Silver, Ethel H. ls	*Milwaukee*
Silver, Irene Kathyrn	*Racine*
Silver, Rosalyne J. ls	*Racine*
Silver, Roselyn Marie ls	*Racine*
Silveus, Ura M.	*Pittsburgh, Pa.*
Sime, A. Jean	*Washington, D. C.*
Sime, Nelle A.	*Helena, Mont.*
Simenson, Raymond S. ls m	*Wautoma*
Simmons, Blanche Evelyn	*Chicago, Ill.*
Simnicht, Louis A.	*Mellen*
Simon, Mildred M. ls	*Sturgeon Bay*
Simonson, Lloyd M. ls m	*Deerfield*
Simonson, Raymert	*Lone Rock*
Simpson, James Lorenzo B.S.	*Indianapolis, Ind.*
Simpson, John F.	*Hollandale*

Sims, Alice	*Milwaukee*
Sinaiko, Rose Minerva ls	*Madison*
Sinaiko, Russell Philip ls	*Madison*
Sinclair, Alice Elizabeth B.S.	*Newton, Kans.*
Sinclair, Katharine Emelda	*Steubenville, Ohio*
Singer, Gladys Z.	*Chicago, Ill.*
Sippel, Helen L.	*Brountown*
Siren, Theresa Amanda	*Iron Belt*
Sister Mary Agnella Gavin	*Sinsinawa*
Sister Mary Albert Wenker B.A.	*Milwaukee*
Sister Benitus Goodrow	*Sinsinawa*
Sister Dolores Chavon	*Milwaukee*
Sister Mary Faustine Mascrez	*Fond du Lac*
Sister Mary Loretto Kelter B.S. g	*Milwaukee*
Sister Mary Louis Downey B.A.	*Prairie du Chien*
Sister Mary Marcina Boff	*Fond du Lac*
Sister Nazarius Steinbach	*Sinsinawa*
Sister Mary Pierre Hanrahan B.A.	*Sinsinawa*
Sister Timothy	*Madison*
Skinner, Morgon E. m	*Waupaca*
Skoken, Marguerite Cecilia B.S.	*St. Joseph, Mo.*
Skolnik, Molly Libbie	*Brooklyn, N. Y.*
Slaby, Rudolph Tom e	*Independence*
Slade, Florence Jennings	*Chicago, Ill.*
Slater, Austine Virginia B.A.	*Parkersburg, W. Va.*
Slattery, Frances Elizabeth	*Milwaukee*
Slayden, Madge Conners	*Waverly, Tenn.*
Slayden, Nell Catherine B.A.	*Waverly, Tenn.*
Sleeth, Alpha L. ls	*Bonne Terre, Mo.*
Sload, Jay Walter	*Harrisburg, Pa.*
Sloan, Don Alvin B.S.	*Hutchinson, Kans.*
Sloan, Mary Virginia ls	*Clarksburg, W. Va.*
Sloane, Richard Bartoo ls	*Chicago, Ill.*
Sloey, Agnes Marie	*Chicago, Ill.*
Sloman, Lucille May	*Kansas City, Mo.*
Slothower, Leon E. B.S.	*Warren, Ill.*
Small, Bonnie Blanche ls	*Madison*
Smart, David Oliver	*Kansas City, Mo.*
Smith, Beatrice Elizabeth	*Chippewa Falls*
Smith, Bernard Earl	*Madison*
Smith, Bernard J. ls	*Brodhead*
Smith, Berniece Isadore	*Kewanee, Ill.*
Smith, Camilla	*Osseo*
Smith, Clara Elizabeth	*Creemore, Ont., Can.*
Smith, Clare W.	*Nevada, Ohio*
Smith, Clarence Eldon	*Delavan*
Smith, Elizabeth Fulton	*Manitowoc*
Smith, Ernest C.	*Galesburg, Ill.*
Smith, Frances L.	*Columbus, Ind.*
Smith, Franklin M. B.A.	*Nevada, Ohio*
Smith, Geraldine Minerva	*Clarion, Pa.*
Smith, Hazen M.A.	*La Grange, Ga.*
Smith, Jessie Roselle B.S.	*Grantsburg*
Smith, Kathryn	*Kansas City, Mo.*
Smith, Laban Conrad ls	*Madison*
Smith, Laura Agnes	*Merrill*
Smith, Nettie Mae	*Dayton, Ohio*
Smith, Robert Goodrich B.A.	*Columbus, Ohio*
Smith, Rose Ilean	*Corunna, Ind.*
Smith, Veldren Marie	*Lima, Ohio*
Smith, Vivian	*Bay Springs, Miss.*

Smith, William Noble ls	*Platteville*
Smitz, Louis Zink e	*Chicago, Ill.*
Smyers, Norma Irene ls	*Madison*
Snavely, Hazel M. B.F.A.	*Lincoln, Nebr.*
Snavely, Myrtle Irene ls	*Milwaukee*
Snell, Patrick Thomas B.A.	*Lynxville*
Smith, Vivian Helen B.A.	*Terre Haute, Ind.*
Snydacker, Daniel ls	*Kenilworth, Ill.*
Snyder, Audra Faye	*Amboy, Ind.*
Snyder, Carolyn Hannah	*Washington, D. C.*
Snyder, Dorothy Christine B.A.	*Scranton, Pa.*
Snyder, Grace	*Dickerson Run, Pa.*
Snyder, John Kimball M.A.	*West Concord, Mass.*
Snyder, Marguerite B.S.	*Trenton, Tenn.*
Snyder, Nellie	*Dickerson Run, Pa.*
Soller, Mary Berliant	*Cincinnati, Ohio*
Sollinger, Anna Janet	*Fort Smith, Ark.*
Solt, Neva May B.S.	*Waterville, Kans.*
Solveson, Clara M. ls	*Ellsworth*
Sommem, Curtis J.	*Jefferson*
Sommers Catherine A.	*Neenah*
Sorensen, Mrs. Stanis E. ls	*Green Bay*
Sorenson, Theodore Almer	*Elk Mound*
Sorenson, Theodore Nordal	*Stoughton*
Sorum, Helen Margaret a	*Hollandale*
Souchon, Harry V.	*New Orleans, La.*
Soule, Hope Mildred	*Washington, D. C.*
Spaulding, Nelle Agnes	*Alexandria, Nebr.*
Speck, Myron Edward	*Youngstown, Ohio*
Speich, Harry Alfred ls	*Greenwood*
Spencer, Helen Elizabeth B.A.	*Madison*
Spencer, Helen M. a	*Madison*
Sperry, Maxine Eleanor ls wls	*Owatonna, Minn.*
Spies, Jacob Alfred B.A.	*Sheboygan*
Spies, Jessie Martina	*East Canton, Ohio*
Spindler, Evelyn B.	*Canton, Ohio*
Spirito, Olga M.A.	*Pasadena, Cal.*
Spohn, Frances Adeline B.S. g	*Madison*
Spooner, Allen Leonard	*Eau Claire*
Spors, Edith Kathryn	*Galesville*
Spratt, Lillian Russell ls	*Madison*
Springer, Frances Marion	*St. Paul, Minn.*
Springer, Selma	*Chicago, Ill.*
Springer, Vincent George ls m	*Rothschild*
Spurgat, Emil	*Racine*
Stackhouse, Chester R. B.S.	*Nankin, Ohio*
Stacy, Allan Ross B.A.	*Indianapolis, Ind.*
Stagg, Rosa C.	*Chicago, Ill.*
Stamm, Esther Harriet	*Galesburg,. Ill.*
Stamm, Ruth Alice a	*Wauwatosa*
Stanford, Charles E. ls m	*Madison*
Stanforth, Mary Angelene B.S.	*Sunbury, Ohio*
Stange, Lore ls	*Milwaukee*
Stangel, Frank Otto ls	*Tisch Mills*
Staples, Olivia Artemesia	*St. Louis, Mo.*
Stark, Anna Lydia B.M.	*Madison*
Staron, John Mathew ls	*Milwaukee*
Staubus, Rascal K. B.A.	*Clovis, N. Mex.*
Stauffacher, C. Gordon ls m	*Monroe*
Stebbins, Grace Mabel	*Poynette*
Stebbins, Isabelle	*Madison*

Steel, Ralph Nelson	*Milwaukee*
Steele, Mrs. R. B.	*Nashville, Tenn.*
Steenis, Orithia Clark ls	*Madison*
Steere, Virginia	*Shreveport, La.*
Steffy, Genevieve Lorraine B.A.	*Chicago, Ill.*
Steffy, Nancy Mae	*Chicago, Ill.*
Stehman, Kathryn Ann	*Collinsville, Ill.*
Steichen, Kathryne Elizabeth B.S.	*Dubuque, Iowa*
Stein, Anna Margaret B.A.	*Mount Vernon, N. Y.*
Steinbach, Helen Florence	*New Rockford, N. Dak.*
Steinhoff, Ernest F.	*Verona*
Stephens, Dorothy Bates	*Detroit, Mich.*
Stephenson, Conrad L.	*Superior*
Stephenson, William Vincent	*Bellevue, Ohio*
Sterling, Goldene A. B.A.	*Thorp*
Sterling, Mary Katherine	*Houston, Tex.*
Stern, Alan Irving ls	*Milwaukee*
Stern, Louise	*Green Bay*
Sternlicht, Vivian ls	*Beloit*
Stetzer, Susan Jeanette	*Sparta*
Steven, David Ritchie ls	*Webster Groves*
Steven, William P. ls	*Eau Claire*
Stevens, Mary Alice C. B.A.	*Washington, D. C.*
Stevens, Roger Williams e	*Kenosha*
Stewart, Violette Jasmine	*Caledonia, Minn.*
Stewart, Virda Laura B.A.	*Cleveland, Ohio*
Stewart, Wilbur Douglas e	*Madison*
Stielow, Emil Fred Ph.B.	*Sheboygan*
Stille, Lillian	*Holly Springs, Miss.*
Stilwell, Florence ls	*Fort Lauderdale, Fla.*
Stinson, Dorothy Baird B.E.	*Los Angleles, Cal.*
Stockdale, Gertrude Heloise	*Belmont*
Stockham, Charlotte Mae	*Detroit, Mich.*
Stoecklin, Pearl Bernice a	*Highland, Ill.*
Stokely, Elizabeth Mountford	*Des Moines, Iowa*
Stolen, Theresa S.	*Madison*
Stoleson, Edda Isabelle	*Tigerton*
Stolper, Eleanor Louise	*Plymouth*
Stone, Fern Agnes	*Park Falls*
Stone, Frances Ethel	*Chicago, Ill.*
Stone, Leon Chrismon B.A.	*Petersburg, Ind.*
Stone, Lydia	*Union City, Tenn.*
Stone, Mary Elizabeth	*Chicago, Ill.*
Storms, Aulta D.	*Scircleville, Ind.*
Stott, Howard Ransom ls	*Evansville*
Stouffer, William Holmes	*Sac City, Iowa*
Stowe, Harwood L. ls m	*Kimberly, Idaho*
Strait, Thelma Gertrude B.S.	*Dayton, Ohio*
Strathearn, Janet Nelson B.A.	*Manitowoc*
Strauss, Betty	*Cincinnati, Ohio*
Straw, E. Alva B.A.	*Livingston, Mont.*
Strawhince, Joseph John B.A.	*New Haven, Conn.*
Strawhince, Peter Joseph ls	*New Haven, Conn.*
Streeter, Charles Leroy ls	*Wichita, Kans.*
Streich, Philip A. ls	*Oshkosh*
Strickland, Florence Louise	*Chicago, Ill.*
Striegl, Jessie M.	*Milton Junction*
Strohkarck, Mildred Anne	*Davenport, Iowa*
Struckmeyer, Esther Louise ls	*Phoenix, Ariz.*
Studebaker, Frances P. B.A. g	*South Bend, Ind.*
Studemann, Esther	*Minneapolis, Minn.*

Stumpe, Frankie B.A.	*Washington, Mo.*
Suby, Howard Ingram ls	*Stoughton*
Sughme, Helen Margaret	*Boston, Mass.*
Suits, Winford Ph.G.	*Medford*
Sullivan, Alice Catherine	*Rochelle, Ill.*
Sullivan, Michael Patrick	*Chciago, Ill.*
Sundt, Lenora Hope	*Las Vegas, New Mex.*
Suszycki, Hazel Thercia	*Reedsburg*
Sutor, Julia Louise B.A.	*Norwood, Ohio*
Sutton, Alice Elizabeth	*Columbus*
Sutton, Robert E. ls	*Milwaukee*
Suydam, Bina Elizabeth	*Dodgeville*
Sverdlin, Abe A. ls m	*Milwaukee*
Swain, Suzanne	*Indianapolis, Ind.*
Swan, Jessie Ph.B.	*Waupaca*
Swan, Ruth Edna	*Waupaca*
Swanson, Ida Christine	*Marinette*
Sweeney, Alice Joyce	*Edgerton*
Sweet, Harry Nathan ls	*Madison*
Sweet, Sam J. ls m	*Milwaukee*
Sweitzer, Matilda Renetta	*Beloit*
Swennes, Myrtle	*La Crosse*
Swensen, Elizabeth Smith ls	*Madison*
Swensen, Mary Smith	*Madison*
Swenson, Evelyn Hildur B.A.	*Sparta*
Swenson, Selmer Gerhard ls m	*Ettrick*
Swerdloff, Esther Sara	*Madison*
Swetland, William Delbert	*Kalispell, Mont.*
Swift, Lillian Margaret B.A.	*Iowa City, Iowa*
Swineford, Frances	*Chicago, Ill.*
Swinney, Mary Frances	*Hardin, Mo.*
Switzer, Freda Marie	*Rudolph, Ohio*
Switzer, Marie Martin	*Elgin, Ill.*
Taber, Charles Franklin B.A.	*East Northfield, Mass.*
Taborsky, Amelia Marie	*Baraboo*
Tacke, Walter Henry e	*Milwaukee*
Taggart, Virginia R. a	*Spencer, Iowa*
Talnsh, Jean Elizabeth B.A.	*Milwaukee*
Talbot, Cyril Arthur	*Merrill*
Tallard, Virginia Hope	*New Britain, Conn.*
Tamblyn, Vivian Elizabeth B.A.	*Nevada City, Cal.*
Tandy, Mabel Estelle	*Columbia, Mo.*
Tank, Thelma Gertrude	*Detroit, Mich.*
Tanner, Beulah	*Indianapolis, Ind.*
Tanner, Howard J. ls	*Berlin*
Tannewitz, Charles Lawrence e	*Madison*
Tao, Philip T. ls	*Tientsin, China*
Taros, Margaret M. E.	*Doylestown*
Tarlow, Virginia S.	*Chicago, Ill.*
Tarnoczi, Stephen Jr. B.A.	*Barberton, Ohio*
Tarnutzer, Alice Evelyn ls	*Madison*
Tasche, John Jr.	*Sheboygan*
Tate, Melvin Richmond e	*Kaukauna*
Tate, Mildred Clark	*Chicago, Ill.*
Taylor, Elvira Jane	*Madison*
Taylor, Ethel M. B.A.	*Genesco, Ill.*
Taylor, Evelyn M. ls	*Waupaca*
Taylor, Francis Nightingale	*Madison*
Taylor, Gladys	*Jackson, Ohio*
Taylor, Olive Elsie	*Sparta, Mich.*
Teed, Mary Elizabeth	*Kansas City, Mo.*

Tegtmeier, Mildred Charlotte	*Davenport, Iowa*
Templeton, Leland George B.A.	*Decatur, Ill.*
Tenhopen, Elmer Franklin	*Cleveland, Ohio*
Tenpenny, Inez Margaret	*Fond du Lac*
Terry, Sadie Slightam	*Madison*
Tetlow, Adaline Elizabeth	*Rockford, Ill.*
Thalacker, Arbie O. ls	*Wisconsin Rapids*
Thatcher, Carrie May	*Waukesha*
Thern, Phil H. e	*New London*
Thiard, C. Louise	*Madison*
Thiede, Clarence Frederick	*Columbus*
Thom, Mary	*Appleton*
Thomas, Anne Virginia	*Milwaukee*
Thomas, Elizabeth L. ls	*Green Bay*
Thomas, Lincoln Alois	*Green Bay*
Thomas, Marabeth Kenyon	*Indianapolis, Ind.*
Thomas, Myron Wendell B.A.	*Cleveland, Ohio*
Thomas, Nancy Catherine	*Dunkirk, Ind.*
Thompson, Catherine B.	*Benton Harbor, Mich.*
Thompson, Emma	*Jamestown, N. D.*
Thompson, Harriette Griffing	*Westhampton Beach, L. I., New York*
Thompson, Janet Elizabeth	*Indianapolis, Ind.*
Thompson, Jeanette	*Mondovi*
Thompson, Millie	*Fort Wayne, Ind.*
Thompson, Oscar J.	*Eau Claire*
Thompson, Theodora Julie	*Madison*
Thompson, Willard N. ls m	*Mauston*
Thomsen, Herbert Henry	*Red Oak, Iowa*
Thomson, Maurice S.	*Madison*
Thornton, Phyllis Lynn ls	*Fairbury, Nebr.*
Thousand, Pearl Evelyn	*Mount Horeb*
Thrapp, Harrison Francis e	*West Chicago, Ill.*
Thrasher, Edna	*St. Joseph, Mo.*
Thrasher, Thelma Naomi	*St. Joseph, Mo.*
Thull, Margaret Cecilia	*Marinette*
Tichy, Ann Mary	*Lakewood, Ohio*
Tiegs, Frederick Louis e	*Milwaukee*
Timmel, Rudolph Ernst	*Oconomowoc*
Tipton, W. Price	*University City, Mo.*
Todd, Ethel May B.M. ls	*Madison*
Todd, Frank V.	*Oregon*
Todd, Harry Evans	*Harrisburg, Pa.*
Tolar, J. E.	*Austin, Tex.*
Tonjes, John C.	*Milwaukee*
Toon, Raymond Sheldon B.A.	*Farmer City, Ill.*
Torn, Harvey August ls	*Milwaukee*
Torrent, Lewis L.	*Muskegon, Mich.*
Torzewski, Elizabeth Mary	*South Bend, Ind.*
Toth, Julia Wanda	*Dayton, Ohio*
Toule, Emma Honora	*Green Bay*
Tousman, Ann	*Milwaukee*
Towers, Lewis McLeish a	*Portage*
Townsend, Faith A. ,	*Detroit, Mich.*
Trainor, Margaret Alice	*Madison*
Tranmal, Henry g	*Washburn*
Trapp, Lois Monica	*Detroit, Mich.*
Traube, Arthur ls	*Des Plaines, Ill.*
Trauger, Verda Mildred	*Plymouth, Ohio*
Travis, Donald Loratt	*Nyack, N. Y.*
Treichel, William Charles ls l	*Racine*
Trenary, Orville John B.S. e	*Madison*

Trieloff, Jennings Carl e	*Fort Atkinson*
Triplett, Thelma	*Chicago, Ill.*
Troemel, Ernestine Ann B.S.	*Madison*
Troemel, Gertrude Frances B.S. g	*Madison*
Troost, Helen Marshall	*Chicago, Ill.*
Trubell, Oscar Robert	*Madison*
Tsao, Tsi-Wen ls	*Washington, D. C.*
Tuers, Louise B.A.	*Paterson, N. J.*
Tufts, John Franklin ls	*Cedar Rapids, Iowa*
Tuhus, Mabel Louise B.A.	*Madison*
Turnbull, Eleanor B.A.	*Brooklyn, N. Y.*
Turner, Jennie Willing (Mrs.) Ph.D.	*Madison*
Turner, Marion Winifred	*East Chicago, Ind.*
Turner, Spencer W. ls	*Tomah*
Turton, Roy John	*Alma*
Tuttle, Albert E. B.Pd.	*Mamaroneck, N. Y.*
Tweet, Reuben Leonard	*Prairie du Chien*
Twohey, Joseph Thomas	*Chicago, Ill.*
Twohey, Kathryn, Genevieve	*Ottawa, Ill.*
Twohig, Margaret Jane B.M.	*Milwaukee*
Tyler, Mabel Nina M.A.	*Lake Forest, Ill.*
Tyler, Virginia Evelyn	*Washington, D. C.*
Unser, Galen W.	*Mondovi*
Upton, Katherine	*New Orleans, La.*
Vacquier, Tatiana Lenard Ph.D.	*Madison*
Valeske, Herman Daniel	*Kenosha*
Valentine, Norine Beatrice	*Big Suamico*
Vallier, Mary Esther ls	*Milwaukee*
Van, Lucile Elizabeth	*Green Bay*
Van Abel, Florence Helen	*Madison*
Van Abel, Mabel Ethel ls	*Madison*
Vanden Heuvel Pauline	*Milwaukee*
Van Deraa, Patricia M. ls	*Antigo*
Van Devanter, Louise Mary B.A.	*Burton, Wash.*
Van Edig, Antoinette Barbara ls	*Middleton*
Van Kirk, May Frances	*Superior*
Van Landegend, Edward M.A.	*St. Louis, Mo.*
Van Natta, Mary Louise	*Geneva, Ill.*
Van Nuys, Mary Alice ls	*Newcastle, Ind.*
Van Thiel, Jordan M. B.A.	*West De Pere*
Van Vactor, Evelyn Emily	*Evanston, Ill.*
Van Vleet, James G. e	*Milwaukee*
Van Werden, Benjamin De Kalb	*Leon, Iowa*
Vass, Lawrence Coolidge ls	*Des Moines, Iowa*
Veazey, Lotta Temple ls	*Avilla, Ind.*
Velasquez, Bernardo C. e	*Bogota, Colombia, S. A.*
Velcheck, Alice Elizabeth	*Thorpe*
Velcheck, Clara Magdalin	*Thorpe*
Vennes, Agnes E.	*Menomonie*
Verduin, James ls	*Arlington*
Verhage, William M.A.	*Sheboygan*
Verhoek, Marcellus B.A.	*Grand Rapids, Mich.*
Verhoff, Adolph William B.A.	*Columbus, Ohio*
Vermeyen, Amanda J.	*Green Bay*
Vertrees, Ruth	*Greenfield, Ill.*
Vestling, Ruth M. B.A.	*Marinette*
Viëtmeyer, Viola Catherine ls	*Milwaukee*
Vig, Lucille Bernice	*Viroqua*
Vinger, Chester Burnel ls	*Argyle*
Vinson, Maude M.A.	*Davidson, N. C.*
Vinz, Florence E. B.A.	*Markesan*

Virant, John Aloysius B.S.	*Lorain, Ohio*
Vivian, Douglas William	*Houghton, Mich.*
Vivian, Irene I. B.A.	*Madison*
Vlack, A. W.	*Brillion*
Vlieland, Elsie Mary	*Omaha, Nebr.*
Voege, Anna May	*Brooklyn, N. Y.*
Vogel, Glen F. ls	*Shiocton*
Voigtman, Edward Hugo e	*Appleton*
Vollmer, Luella M.	*Alma*
Voorhees, Mary Margaret B.S.	*Galesburg, Ill.*
Voorus, Effie Adella	*Sturgis, S. Dak.*
Vornholt, Ethel M. Behm	*Neillsville*
Vos, Bert John Jr.	*Bloomington, Ind.*
Voss, John Carl ls	*Hartford*
Vradenburg, Beulah Isabelle ls	*Madison*
Vrooman, Frances Ault	*Kansas City, Mo.*
Wade, Gerald C. B.S.	*Wauwatosa*
Wagner, Jean Josephine	*Milwaukee*
Wahlberg, Gilbert G. ls	*Kenosha*
Waite, Gordon Elliott e	*Akron, Ohio*
Wakey, Viola Elizabeth B.S.	*Brookings, S. Dak.*
Walker, John Henry	*Oak Park, Ill*
Walker, Vida Jeanne	*Detroit, Mich.*
Wall, John William	*Chicago, Ill.*
Wallace, Cecil Lon B.A.	*Los Angeles, Cal.*
Wallace, Laura P.	*Alamosa, Colo.*
Waller, Elizabeth	*Washington, D. C.*
Waller, Ethel Lucille B.A.	*St. Joseph, Mo.*
Wallman, Marie Florence	*Indianapolis, Ind.*
Wallshlaeger, Norma Elizabeth	*Milwaukee*
Walsh, Alice Jane	*Madison*
Walsh, John Joseph	*Chicago, Ill.*
Walsh, Kathleen	*Madison*
Walsh, Virginia Mary	*Chicago, Ill.*
Walter, Anita Louise B.A.	*Madison*
Walter, Evelyn Kay ls	*West Bend*
Walter, Ann Clare	*Montgomery, Ala.*
Walther, Pauline Caroline	*Washington, D. C.*
Walton, William, Jr.	*Brooklyn, N. Y.*
Walton, William Edwin ls	*Jacksonville, Ill.*
Wan, Shing M.S.	*Peking, China*
Wandrey, Raymond William ls	*Forest Park, Ill.*
Wang, Hsi Chung ls	*Honan, China*
Wangelin, Emma Douglas	*St. Louis, Mo.*
Ward, Harold Wheeler B.A.	*Marietta, Ohio*
Warren, Charles Morris	*Scranton, Pa.*
Warren, Edna Matilda	*Rockford, Ill.*
Warren, Mary Tresham	*Lancaster*
Washa, George William e	*Milwaukee*
Washburn, Justin Charles B.A. g	*Madison*
Washburn, Mary Ellen	*Milwaukee*
Wasserman, Rose Marie	*Milwaukee*
Watkey, Florence	*Cleveland, Ohio*
Watkins, Ellen Levina	*Bisbee, Ariz.*
Watrous, James Scales a	*Madison*
Watson, James E. e	*Appleton*
Watson, Miriam Buck B.A.	*Waterproof, La.*
Watson, Rexford S. ls	*Janesville*
Watson, Vera Violet ls	*Warren, Ill.*
Weatherford, Mary J.	*Louisville, Ky.*
Weaver, Gertrude Rachel B.S.	*Kansas City, Mo.*

Weaver, Jane Rehfeld	*Madison*
Weaver, Mildred	*Royal Oak, Mich.*
Webb, Cecil Greenwood	*Aurora, Ill.*
Webb, Genevieve	*Poynette*
Webb, William James	*Lancaster*
Webber, Mary M. ls	*Fort Atkinson*
Weber, Dulce	*New Holstein*
Weber, Esther B.	*Johnson Creek*
Weber, Helen Marie ls	*Stevens Point*
Webster, Dorothy Jane ls	*Milwaukee*
Webster, Kathleen Mary	*Winnetka, Ill.*
Webster, Luella May	*Hillsboro*
Wechter, Ruth Naomi	*Chicago, Ill.*
Wehmeier, Fred W. B.A. g	*Milwaukee*
Weichel, Nora Lorene	*Pittsburgh, Pa.*
Weigele, Julia Johanna B.S.	*Grantwood, N. J.*
Weil, Arnold James	*Wilmette, Ill.*
Weimer, Mabel Agnes B.A.	*Emporia, Kans.*
Weinhagen, Frances ls	*Milwaukee*
Weinlick, Anna Marie	*De Forest*
Weinreb, Fernlee ls	*Chicago, Ill.*
Weir, Mildred Ethelwyn B.S.	*Beardsley, Minn.*
Weisberg, Henry Louis	*Bronx, N. Y.*
Weisiger, Margaret Page	*Evanston, Ill.*
Welch, Allan Dudley	*Chicago, Ill.*
Welch, Ellen Maria	*Waukesha*
Welker, Jean Annette	*Ashland*
Wells, Dorethy Jane	*Indianapolis, Ind.*
Wells, Lucile M.	*Grand Rapids, Mich.*
Wellstein, Anton William ls	*Knapp*
Welsh, Katharine Hawthorne	*Rockton, Ill.*
Wendt, Karl R.	*St. Paul, Minn.*
Wendt, Wilbur Ervin ls	*Reeseville*
Werder, Betty Anne	*Madison*
Werner, Glenn Raymond	*Blackwell*
West, Laurence Patterson B.A.	*Beaver Dam*
West, Ray D.	*Menomonie, Mich.*
West, Raymond W. e	*Mukwonago*
West, Robert	*Chicago, Ill.*
Westervelt, Gretchen	*Detroit, Mich.*
Weston, Harry Augustus B.A.	*Geneseo, Ill.*
Wettig, Marie Katherine	*Kansas City, Mo.*
Wheeler, James Allen e	*Viola*
Wheeler, Mary Alice ls	*Milwaukee*
Wheelock, Jerome H.	*Viroqua*
Wherland, Ruth Marie	*Welcome, Minn.*
Whetstone, Richard Allison, Jr.	*Pittsburgh, Pa.*
Whitaker, Mary Elizabeth ls	*Madison*
Whitaker, Philip Allan ls	*Racine*
White, Edith Dakota	*Ashland*
White, Frank Jonathan ls	*Madison*
White, Harriet Kemble	*Fairmont, W. Va.*
White, John J. ls	*Beardstown, Ill.*
White, Mary Elizabeth	*New Lisbon*
Whiteside, Alpha Vesta	*Girard, Kans.*
Whiteside, Catherine Jewell ls	*Allendale, Ill.*
Whiteside, Mary B.A.	*Cleveland, Ohio*
Whitestone, Rose Sylva	*La Porte, Ind.*
Whitford, Marie Charlotte	*Sturgeon Bay*
Whitman, Pauline Ethel	*Madison*
Whitney, Elizabeth Bates B.A.	*East Cleveland, Ohio*

Whitney, Mary Elizabeth	*Detroit, Mich.*
Whitney, Maude Henriette ls	*Stevens Point*
Whittemore, Helen Elizabeth	*Framingham, Mass.*
Wickman, Gunnard A.	*Ashland*
Wiedenbeck, Theodore F.	*New London*
Wiegand, Opal	*Eagle River*
Wieland, Stephen Paul B.A.	*Lytton, Iowa*
Wien, Harry Meyer	*Burlington*
Wien, Jerome Lester	*Chicago, Ill.*
Wiepking, Estelle Kathryn ls	*Milwaukee*
Wierda, Maggie	*Holland, Mich.*
Wiese, E. Eleanor B.A.	*Madison*
Wignall, Flavia Josephine B.A.	*Orange, Tex.*
Wilbur, Roberta Margaret	*Whitewater*
Wilcox, Jack H. ls	*Milwaukee*
Wilcox, Lillian Alice M.A.	*Buffalo, N. Y.*
Wilcox, Wilma Louise	*Detroit, Mich.*
Wilde, Leslie Edward	*Milwaukee*
Wilder, Ruth F.	*Madison*
Wileman, Charles H. B.A.	*Fort Atkinson*
Wiletsky, Sam Harry	*Oconomowoc*
Wilkins, Gladys Aurilla	*Sharon*
Willem, Jack Martin	*Milwaukee*
Williams, Ethelyn B.A.	*Wichita, Kans.*
Williams, Eunice ls	*Wales*
Williams, Helen Elisabeth B.A.	*Natchidoches, La.*
Williams, Ivan Edward g	*Neenah*
Williams, Jean W. ls	*Madison*
Williams, Joyce Beatrice ls	*Madison*
Williams, Laurence Ray B.S.	*Wayne, Ohio*
Williams, Margaret Frances	*Milwaukee*
Williams, Minnie B.C.S.	*Brooklyn, N. Y.*
Williams, Robert North	*Austin, Tex.*
Williams, Ruth Jeannette ls	*Cambria*
Williams, William H.	*Madison*
Williamson, Louise	*Berkeley, Cal.*
Williamson, Ruby F.	*Gilson, Ill.*
Willier, Helen Marie	*Rockford, Ill.*
Willis, Catherine Louise	*Crawfordsville, Ind.*
Willis, Miriam Katherine	*Harrisburg, Pa.*
Willits, Alice Annette	*Orlando, Fla.*
Willman, Maurine	*Kankakee, Ill.*
Wilson, Anna Belle M.A.	*Flatwillow, Mont.*
Wilson, Arthur Lowell	*Struthers, Ohio*
Wilson, Buella	*Kansas City, Mo.*
Wilson, Ella McGrew ls	*Houston, Tex.*
Wilson, Esther May	*Chippewa Falls*
Wilson, Gladys Edna	*Fort Wayne, Ind.*
Wilson, Harold J. B.A.	*Columbus, Ohio*
Wilson, Huldah Frances	*Covington, Ky.*
Wilson, Nancy Lea	*Houston, Tex.*
Wilson, Pauline Antoinette ls	*Chetek*
Winchester, Janet Roek B.A.	*Reedsburg*
Winger, Maud Almira ls	*Amery*
Wingfield, Mary Caroline Ph.B.	*Chicago, Ill.*
Winning, Esther Sundquist (Mrs.)	*Beaver Dam*
Winter, Jack Alfred	*Milwaukee*
Winter, Verena Mary	*St. Paul, Minn.*
Winther, Robert Odin e	*Wausaukee*
Wirth, Eva Mary	*Two Rivers*
Wise, Harriette Lucille	*Mapleton, Iowa*

Wisniewski, Theodore Francis e	*Milwaukee*
Wiswell, Ruth C. a	*Chicago, Ill.*
Withers, Dorothy E. B.S.	*Ulysses, Nebr.*
Witmer, Samuel Wenger M.A.	*Goshen, Ind.*
Witt, Marguerite Harriet	*Leland, Illinois*
Wixted, Cecilla Alice	*Chicago, Ill.*
Wochos, Louis Henry	*Green Bay*
Woelfel, Adelaide M.	*Chilton*
Woerpel, Ella	*Madison*
Wohlgemuth, John Francis e	*Milwaukee*
Wolever, John Frank	*Lafayette, Ind.*
Wolf, George P. ls	*Chicago, Ill.*
Wolf, Herman ls	*Kenosha*
Wolfe, Adeline Margaret	*Madison*
Wolfe, Ferne Marion	*Marceline, Mo.*
Wolfe, Thelma Mary	*Bulter, Pa.*
Wolters, Selma Louise	*Milwaukee*
Wood, Anna Elba	*Des Moines, Iowa*
Wood, Bernice B.S.	*Oxford, N. C.*
Wood, Delbert LeRoy B.A.	*Mankato, Minn.*
Wood, Lila Ervilla	*Ripon*
Wood, Mary G. B.S.	*Miller, S. Dak.*
Wood, Theodore W. ls	*Chatham, N. Y.*
Wood, Violet Betty	*Milwaukee*
Woodke, Margaret Edith	*Cicero, Ill.*
Woods, Ethel May	*Indianapolis, Ind.*
Wooton, Clarence Jacob e	*Merrill*
Worden, Dora Esther	*Grand Rapids, Mich.*
Worden, John L. B.S.	*Chicago, Ill.*
Woy, Margie Marceline ls	*Madison*
Wray, James Glen	*Glencoe, Ill.*
Wright, Alice Elizabeth ls	*Madison*
Wright, Heloise G. ls	*Madison*
Wright, Lauretta Marie	*Chicago, Ill.*
Wright, Lillian Hager	*Huntington, W. Va.*
Wright, Lillian J.	*Salem, Ind.*
Wright, Mildred Augusta B.A.	*Saskatoon, Sask., Can.*
Wright, P. Randall, Jr. l	*Milwaukee*
Wu, Kan. ls	*Szechuan, China*
Yahr, Emma I.	*Chicago, Ill.*
Yamane, Richard Noboru	*Chicago, Ill.*
Yanke, Eunice Natalia	*Milwaukee*
Yates, Mildred Reed B.A.	*Rantoul, Ill.*
Yeaton, Doris May	*Western Springs, Ill.*
Yingling, Walter Estey	*Lima, Ohio*
Yockey, Kathryn E. B.S.	*Beardstown, Ill.*
Yolles, Anita Mildred	*Milwaukee*
Yolton, Leslie A. e	*La Crosse*
Young, Catherine Monterie B.A.	*Oviedo, Fla.*
Young, Cecil E. B.A.	*Auburn, Ind.*
Young, Edward J.	*Algoma*
Young, Georgina L.	*Pittsburgh, Pa.*
Young, Ila Maxine	*Oviedo, Fla.*
Young, Kathryn Ellen B.S.	*Warrensburg, Mo*
Young, Robert Morton ls	*Chicago, Ill.*
Yu, Tsi Pei	*Nanking, China*
Yudin, Harry C. ls	*Marinette*
Zajdzimski, Sigmund Vincent	*Chicago, Ill.*
Zander, Elva Sophia	*Manitowoc*
Zastrow, Irvin Elmer	*Madison*
Zellmer, Martin J.	*Tigerton*

Zeran, Franklin R. ls	*Manitowoc*
Zeunert, Ray H.	*Cedarburg*
Zezula, Emily Lestella B.A.	*Cedar Rapids, Iowa*
Zezula, Olive Margaret M.A.	*Cedar Rapids, Iowa*
Ziehlsdorf, Hermann Oscar	*Augusta*
Ziehms, Adele Margaret	*Green Bay*
Zilmer, Delbert Edward e	*Monroe*
Zilshe, Robert G. ls	*Appleton*
Zimmerman, Dorothy B.A.	*Chicago, Ill.*
Zimmerman, Minda Ph.B.	*Chicago, Ill.*
Zinn, Charline Elizabeth ls	*East Troy*
Zinn, Flora Eliza M.A.	*Milton*
Zoch, Marion A.	*Chicago, Ill.*
Zoerb, Carl Rudolph a	*La Crosse*
Zuehlke, Irene Mary	*Appleton*
Zufelt, Erva Crosby	*Sheboygan*

LAW

Adsit, Stephen B. B.A.	*Pontiac, Ill.*
Almon, Lois M.A. g	*Milwaukee*
Baer, Theodore C. B.A.	*Peoria, Ill.*
Barnard, Charles Alfred	*Brillion*
Barstow, Barney l	*Mondovi*
Barto, Clarence E. l	*Madison*
Bauer, William Carl B.A.	*Hastings, Mich.*
Bier, Wallace Jacob B.A. g	*Mount Horeb*
Boerner, Carl Francis l	*Madison*
Bogue, Harold James B.A. l	*Beresford, S. Dak.*
Bonn, Melvin Francis	*Lancaster*
Boyd, Helen Marie B.A.	*Washington, D. C.*
Brady, Frederick William B.A.	*Eau Claire*
Browning, John William B.A.	*Benton, Ill.*
Budlong, Margaret B.A.	*Tulsa, Okla.*
Burke, George Louis B.E.	*Necedah*
Bussan, U. George B.S.	*Madison*
Caruthers, John Henry B.A.	*University City, Mo.*
Caudle, Stokely M., Jr.	*St. Louis, Mo.*
Chappell, Kenneth Edward	*Belmont*
Chiperfield, Robert Bruce B.A.	*Canton, Ill.*
Coller, Floyd Arthur B.A.	*Bowling Green, Ohio*
Conrad, Guy Stanley l	*Superior*
Conway, Byron B. Ph.B. l	*Wisconsin Rapids*
Cooke, L. Osmun Ph.B. l	*Madison*
Crain, Joseph Clinton	*Ozark, Mo.*
Cramer, Donald O.	*St. Louis, Mo.*
Davis, Jesse Clyde B.S.	*Altoona, Pa.*
Dawson, Gordon Eversz B.A. l	*Milwaukee*
Delaney, John R.	*Green Bay*
Donaldson, Leroy Kenneth B.A.	*New Castle, Pa.*
Drechsler, Ronold Arthur	*Cedarsburg*
Edgarton, Allan L.	*Madison*
Edwards, Herbert B.S. l	*Pontiac, Ill.*
Evans, Hugh McCloskey	*New Orleans, La.*
Feiker, William Winfield	*Racine*
Feltenstein, Paul Irving B.S.	*Chicago, Ill.*
Fimmen, Waldo Ralph	*Iowa City, Iowa*
Foltz, Edward S. Jr.	*Rockford, Ill.*
Fontenot, Leo Austin B.A.	*Opelousas, La.*
Fox, Jerome B.S.	*Chilton*

Freytag, William Harold B.A. 1	*Milwaukee*
Geiger, Warner J.	*Oshkosh*
Giachini, Peter	*Chicago, Ill.*
Gill, William Thomas B.A. 1	*Madison*
Gillespie, William Augustus	*New Orleans, La.*
Gold, Hyman	*Milwaukee*
Grabow, Louis Phillip 1	*Detroit, Mich.*
Graunke, Walter Albert 1	*Wausau*
Green, Gene L. 1	*Milwaukee*
Greene, Myal Crawford B.S.	*Blytheville, Ark.*
Gromer, Earl H. B.A.	*Elgin. Ill.*
Guenzl, Herbert Ferdinand	*Milwaukee*
Hagerty, G. Arlyn	*Madison*
Halverson, Helen Ione B.A.	*Kimball, S. Dak.*
Hamill, Glenna Rachael Ph.B.	*Joliet, Ill.*
Hardy, Louis Sarkis 1	*Racine*
Hathorne, Zenas Franklin B.S.	*Waukegan, Ill.*
Hemmy, Paul Alfred, Jr. 1	*Juneau*
Henriques, Charles Buck B.S.	*New Orleans, La.*
Herlache, Clifford Halstead 1	*Sturgeon Bay*
Herndon, Zeb Hamill B.A.	*Welch, W. Va.*
Hillyer, Frederick Fuller 1	*Indianapolis, Ind.*
Hindin, Nathan 1	*Milwaukee*
Hirt, Arthur Franklin B.A. 1	*Altoona, Pa.*
Hoeffel, Harry Peter B.A. 1	*Appleton*
Hohman, Elmer E.	*Wausau*
Howie, Joe Hines B.S.	*Jackson, Miss.*
Iushewitz, Edward E.	*Milwaukee*
Kahn, Sol Jerome 1	*Milwaukee*
Kaiser, Harvey Ervin 1	*Milwaukee*
Kaner, Oscar A. 1	*Eveleth, Minn.*
Kelley, Carleton Edward 1	*Joliet, Ill.*
Konkol, Edward J. 1	*Ashland*
Krueger, W. Marvin 1	*Milwaukee*
Lamboley, Harold Joseph	*Monroe*
Larkin, Edwin J. B.A. 1	*Madison*
Lauritzen, Rickard H. 1	*Eau Claire*
Lee, Lester Conrad	*Cashton*
Leigh, John R.	*Madison*
Liflander, Michael Sanford	*St. Louis, Mo.*
Linley, Victor B.A. 1	*Madison*
Ludwig, Richard Joseph	*Milwaukee*
Luedke, Archibald H. B.A.	*Beaver Dam*
Lundgren, Victor August 1	*Marinette*
Lungren, A. Marvin 1	*Omaha, Nebr.*
McKenzie, Edward Charles 1	*Turtle Lake*
McLaughry, de Ormond B.A.	*Providence, R. I.*
Maitland, George H.	*Kansas City, Mo.*
Manser, Burton Rollins B.A. 1	*Appleton*
Marshall, Charles Arthur 1	*Madison*
Mathews, Frank Edward B.S.	*Clayton, Mo.*
Melzer, Arnold E. B.A.	*Watertown*
Miner, Oliver H. 1	*Madison*
Morris, William Francis	*Washburn*
Mueller, Edward J. 1	*Milwaukee*
Munson, Earl Henry B.A.	*Cambridge*
Murphy, Leonard Francis B.S.	*Oak Park, Ill.*
Olson, Bert Otto B.A.	*Mount Horeb*
O'Neil, William Albert 1	*Prairie du Chien*
Orth, Franklin Lewis B.A. 1	*Madison*
Osgood, William B.	*Waukegan, Ill.*

Page, Harry Donald	*Madison*
Penrot, David Louis B.A.	*Chesaning, Mich.*
Peterson, John M. ls	*Colby*
Peterson, Marshall L. 1	*Ellsworth*
Pinkerton, Carleton Clark ls	*Oshkosh*
Poser, Frederic Folk 1	*Columbus*
Ransom, Bide Maxwell	*Cleveland, Ohio*
Rasmus, Ingolf E.	*Chippewa Falls*
Rathje, Marion Belle B.S.	*Chicago, Ill.*
Reed, Ronald S. B.A.	*St. Joseph, Mo.*
Risjord, Norman Edmond B.A.	*Ashland*
Rooney, John Magnus	*Madison*
Rosenberg, Joseph Lawrence B.A.	*Decatur, Ill.*
Savoy, Preston	*Gueydon, La.*
Schlotthauer, George McDormit B.A. 1	*Madison*
Schuetz, Elmer Lou	*St. Louis, Mo.*
Shafer, Joseph Ernest M.A. g	*Madison*
Shipman, Franklin Leonard	*Troy, Ohio*
Sinaiko, Jerome Joseph 1	*Madison*
Sinclair, Jesse Miller B.A. 1	*Claymont, Del.*
Singer, James A. B.A.	*St. Louis, Mo.*
Smart, Kenneth Edward Ph.B., LLB	*Milwaukee*
Smieding, Henry Stuart B.A.	*Racine*
Squire, Lucius A. 1	*Madison*
Swiderski, Joseph Bernard 1	*Milwaukee*
Thompson, Charles Thomas 1	*St. Croix Falls*
Troup, Cornelius Vanderbilt B.A.	*Brunswick, Ga.*
Tschupp, Emerson Arthur	*North Bergen, N. J.*
Warner, Ernest N. 1	*Madison*
Weaver, F. Max ls 1	*Madison*
Webster, Kenneth F. B.A. 1	*Milwaukee*
Wegner, Emil Fred 1	*Madison*
Westring, Clarence Alfred	*Madison*
Wheeler, Floyd Ernest B.A. gl	*Madison*
White, Charles Herman B.A. 1	*Madison*
Wilson, John Francis B.A.	*Jefferson, Iowa*
Winding, Charles Arthur 1	*Milwaukee*
Wisdom, Norton Labatt B.A.	*New Orleans, La.*
Woolsey, Theodore Dwight, Jr. B.A. 1	*Beloit*

GRADUATE SCHOOL

FELLOWS AND SCHOLARS

1 First semester
2 Second semester

Alexander, Leonard Jay	*Madison*
M.S., University of Wisconsin	Fellow in Plant Pathology
Allyn, William Preston	*Mount Vernon, Ind.*
M.S., Purdue University	Fellow in Agricultural Bacteriology
Anderson, Melvin Eliason	*Logan, Utah*
B.S., Utah Agricultural College	Fellow in Plant Pathology
Armstrong, Sinclair Wallace	*Madison*
M.A., Princeton University	Fellow in European History
Asmundson, Vigfus S.	*Vancouver, B. C.*
M.S., Cornell University	Honorary Fellow in Genetics
Babb, Lawrence	*Madison*
M.A., University of Wisconsin	Fellow in English
Backus, Myron Port	*Madison*
M.A., University of Wisconsin	Fellow in Botany

Bailey, Charles Frederick *Springfield, Ill.*
B.S., University of Illinois Fellow in Chemistry
Baillie, Edward Charles *Chicago, Ill.*
B.S., University of Wisconsin Hollister Fellow in Pharmacy
Baker, Harold R. *Portage*
B.A., University of Wisconsin Charles Kendall Adams Fellow in Greek
Barnard, Raymond Humphrey se *St. Paul, Minn.*
M.A., University of Wisconsin Fellow in School of Education (Speech)
Barnes, Virgil Everett *Madison*
M.S., State College of Washington Honorary Scholar in Geology
Bauder, Russell S.
M.A., University of Wisconsin Scholar in Economics
Blood, Heber Loran *Logan, Utah*
M.S., Utah State Agricultural College Fellow in Plant Pathology
Bluhm, Heinz Siegfried *Oshkosh*
M.A., University of Wisconsin Fellow in German
Brennan, Elsie May *Lancaster*
M.A., University of Wisconsin Charles Kendall Adams Fellow in Greek
Brown, Calvin Smith *University, Miss.*
M.A., University of Cincinnati Fellow in Comparative Literature
Brown, Robert Vaughan *Beaver Dam*
B.S., University of Wisconsin Fellow in Mechanical Engineering
Busse, Clarence F. *Green Lake*
B.A., Ripon College Ripon College Scholar (Comparative Literature)
Butterworth, Theron Harvey *Glen Ridge, N. J.*
M.S., University of Wisconsin Annie Gorham Fellow (Bacteriology)
Carlton, Alma Olive *Jennings, Kans.*
M.A., University of Wisconsin Fellow in Latin
Cauley, Troy Jesse *Comanche, Tex.*
M.A., University of Texas Fellow in Economics
Choate, Helen Ashhurst *Northampton, Mass.*
Ph.D., University of Chicago Honorary Fellow in Botany
Cowart, Roland *Greenwood Springs, Miss.*
M.S., Mississippi Agricultural and Mechanica College
Industrial Fellow in Soils
Culter, Samuel Harold *Ripley, Ohio*
M.S., University of Wisconsin Lloyd Fellow in Pharmacy
Deakin, Alan *Dorchester, Ont., Can.*
M.S., University of Wisconsin Industrial Fellow in Genetics
Devor, Clara Cornelia *Burlington*
B.A., Milwaukee-Downer College Milwaukee-Downer Scholar in History
Dick Everett Newfon *Nevada, Iowa*
M.A., University of Nebraska Honorary Scholar in History
Dixon, Ellis Howard *Athens, Ga.*
M.S., University of Georgia Scholar in Physics
Dunham, Theodore Chadbourne *Dayton, Ohio*
B.A., Ohio Wesleyan University LaFrentz Fellow in German
Eastwood, LaVerne Winfield *Platteville*
B.S., University of Wisconsin Research Fellow in Mining and Metallurgy
Ellsworth, Elmer William *Madison*
B.A., University of Wisconsin Scholar in Geology
Elwell, John Ambrose *Madison*
B.S., Iowa State College Industrial Fellow in Soils and Agronomy
Ely, Stephen Lee *Davenport, Iowa*
M.A., University of Wisconsin Fellow in Philosophy
Engelbrecht, Mildred A. *Elgin, Ill.*
B.A., University of Wisconsin
Industrial Research Fellow in Agricultural Bacteriology
Enz, Walter William Fred *Fort Wayne, Ind.*
M.S., University of Florida Fritache Brothers Fellow in Pharmacy

Erdmann, Herbert Hensley — *Milwaukee*
B.S., University of Wisconsin — Scholar in Agricultural Economics

Erickson, Edgar Louis — *Madison*
M.A., University of Wisconsin — Fellow in American History

Errington, Paul Lester — *Madison*
B.S., South Dakota State College — Industrial Fellow in Zoology

Fitch, Edwin Medbery — *Madison*
B.A., University of Oxford — Honorary Scholarship in Economics

Fitch, Richard Homer — *Madison*
M.A., University of South Dakota — Research Fellow in Pharmacology

Frank, Amelia Z. — *Adrian, Mich.*
B.A., Goucher College — Harriet Remington Laird Fellow in Physics

Frank, Julia Mottier se — *Madison*
M.S., University of Wisconsin — Fellow in Home Economics

Frautschi, Lowell Emil l — *Madison*
M.A., University of Wisconsin — Fellow in History

Fritsche, Oscar Otto — *Madison*
B.S., University of Wisconsin — Research Fellow in Mining and Metallurgy

Galinsky, Albert Nathan m — *Beloit*
B.A., Beloit College — Beloit College Scholar (Medicine)

Garey, Doris Bates — *Boston, Mass.*
B.A.,Mount Holyoke College
Mary M. Adams Fellow in English Language and Literature

Gerend, Joseph John — *Kaukauna*
B.A., Lawrence College — Lawrence College Scholar in English

Giese, Rachel — *Madison*
M.A., University of Wisconsin
Research Fellow in Comparative Literature

Gilchrist, Philippa Garth — *Courtland, Ala.*
M.S., University of Wisconsin — Scholar in Chemistry

Gillhoff, Gerd Aage — *Holyoke, Mass.*
B.A., University of Madison — Henry Gund Scholar in German

Graham, Katherine — *Norman, Okla.*
M.S., University of Oklahoma — Fritsche Brothers Fellow in Pharmacy

Graham, Victor Edward — *Cantnar, Saskatchewan, Can.*
B.S.A., University of Saskatchewan — Honorary Scholar in Botany

von Gruenigen, John Paul — *Pasadena, Calif.*
M.A., University of Wisconsin
Milwaukee Seminary Traveling Fellow in German (not in residence)

Hamilton, William Jackson l — *Fulton, Mo.*
M.A., University of Missouri — Honorary Scholar in History

Hanning, Flora May — *Chandler, Ind.*
B.A., Evansville College — Industrial Fellow in Agricultural Chemistry

Harrison, Robert Solon — *Madison*
M.S., University of Wisconsin
Industrial Fellow in Commerce and Horticulture

Hauck, Hazel Marie — *Seattle, Wash.*
M.A., University of Wisconsin — Omicron Nu Scholar in Home Economics

Haworth, Leland John — *West Newton, Ind.*
M.A., Indiana University — Fellow in Physics

Hayakawa, Samuel Ichiye — *Winnipeg, Can.*
M.A., McGill University
Mary M. Adams Fellow in English Language and Literature

Heidt, Lawrence Joseph — *Portage*
M.S., University of Wisconsin — Du Pont Fellow in Chemistry

Hiestand, William Andrew — *Madison*
M.A., University of Wisconsin — Fellow in Zoology

Hill, Eldon Cleon — *Indianapolis, Ind.*
B.A., DePauw University — Scholar in Philosophy

Hough, Graydon Max — *Carthage, Mo.*
M.A., University of Wisconsin — Fellow in Greek

Hsu, Tun Chang — *Tienkiang, Szechuan, China*
M.A., University of Wisconsin — Honorary Scholar in Political Science
Huffman, Carl F. — *East Lansing, Mich.*
M.S., University of Minnesota — Fellow in Animal Husbandry
Ireland, Edward Joseph — *Madison*
M.S., University of Wisconsin — Hollister Fellow in Pharmacy
Ivanoff, Spas Sim l — *Madison*
M.S., University of Wisconsin — Industrial Fellow in Plant Pathology
Jantz, Harold Stein — *Elyria, Ohio*
B.A., Oberlin College — Herman Metz Fellow in German
Johansen, John Peter — *Madison*
M.A., University of Nebraska — Fellow in Sociology
Johannson, Karl Ivan — *Uppsala, Sweden*
M.S., University of Wisconsin — Honorary Fellow in Animal Husbandry
Jones, Lee Francis se — *Madison*
Ph.M., University of Wisconsin — Fellow in Education
Jure, Albert Edward — *Kimberley, B. C., Can.*
M.S., University of Wisconsin — Honorary Scholar in Geology
Kametaro, Koniski — *Kyoto, Japan*
M.A., Tokyo University — Honorary Fellow in Agricultural Bacteriology
Kemmerer, Arthur R. — *Beloit*
B.S., Beloit College — Fellow in Agricultural Chemistry
Kercheville, Frank Monroe — *Vermilion, S. Dak.*
M.A., University of Wisconsin — Fellow in Romance Languages
Kiddle, Lawrence Boyard — *Cleveland, Ohio*
B.A., Oberlin College — Scholar in Romance Languages
Klinger, Allen Connable — *Delaware, Ohio*
M.A., University of Wisconsin — Honorary Fellow in History
Kònig, Selma Sophie — *Carthage, Ill.*
M.A., University of Wisconsin — Honorary Scholar in German
Krueger, Leonard Bayliss — *Oberlin, Ohio*
Ph.D., University of Wisconsin — Honorary Fellow in Economics
Kutz, Walter Monroe — *Unity, Sask., Can.*
B.S., University of Alberta — Fellow in Chemistry
Laird, David Gordon — *Vancouver, B. C., Can.*
M.S., University of Wisconsin — Honorary Fellow in Agricultural Bacteriology
Lamb, Alvin Romaine — *Madison*
M.S., University of Wisconsin — Industrial Fellow in Agricultural Chemistry
Lathrop, Andrew W. — *Endicott, N. Y.*
M.S., University of Wisconsin — Industrial Fellow in Animal Husbandry
Lee, Charles O. — *West Lafayette, Ind.*
M.S., University of Chicago — Honorary Fellow in Pharmacy
Leffler, George Leland — *Kansas City, Mo.*
B.A., Kansas University — Scholar in Economics
Li, Bing Hua — *Peiping, China*
M.A., University of Chicago — Honorary Fellow in Economics
Liu, Che Ming — *Peking, China*
B.A., Yenching University — Honorary Scholar in Political Science
Lloyd, Orson Gunnell — *West Lafayette, Ind.*
M.S., University of Wisconsin — Honorary Scholar in Agricultural Economics
Ludbrook, Wallis Verco — *Norwood, S. Australia*
B.S., Adelaide University — Honorary Fellow in Plant Pathology
Lund, Richard Jacob — *Racine*
M.A. University of Wisconsin — Fellow in Geology
Lyman, Stuart Allen — *Springfield, Mass.*
B.A., University of Wisconsin — Scholar in English
McClure, Twila Elizabeth — *Milton*
B.A., Milton College — Milton College Scholar (History)

Malsin, Pearl S. *Republic, Mich.*
B.A., University of Wisconsin Scholar in Political Science
Malz, Gertrude *Philadelphia, Pa.*
Ph.D., University of Wisconsin
Albert Markham Memorial Graduate Traveling Fellow in English Languages and Literature (not in residence)
Maughan, J. Howard *Cedar City, Utah*
M.A., Utah Agricultural College Fellow in Agricultural Economics
Melcher, William *Montrose, Colorado*
M.A., Harvard University Honorary Scholar in Economics
Misera, Joseph Karl *Breslau, Germany*
Ph.D., University of Breslau Honorary Fellow in Agricultural Economics
Mohat, Haldor Ray *Jackson, Ohio*
B.S., Ohio University Honorary Scholar in Economics
Nobuo, Murakoshi *Shidzuoka-Ken, Japan*
Agricultural Engineering Honorary Fellow in Agricultural Engineering
Park, John Seymour *Madison*
B.A., Wheaton College *Industrial Fellow in Genetics*
Parsons, Kenneth H. *Kokomo, Ind.*
B.A., Butter University Anna Morris Ely Scholar in Economics
Patrick, LaVone *Tuscola, Ill.*
M.A., University of Wisconsin
Charles Kendall Adams Fellow in Modern History
Permar, Dorothy *Toledo, Ohio*
M.S., Michigan State College Fellow in Genetics
Pooley, Robert Cecil *Greeley, Colo.*
M.A., Colorado State Teachers College
Fellow in School of Education (English)
Prendergast, Elizabeth Anne *Madison*
B.A., University of Wisconsin Scholar in Botany
Pruess, Louis Martin *Milwaukee*
M.S., University of Wisconsin Fellow in Agricultural Bacteriology
Ramras, Herman *Brooklyn, N. Y.*
B.A., College of the City of New York
Seminary Endowment Fellow in German
Reinders, Victor Ambrose *Waukesha*
B.A., Carroll College Carroll College Scholar (Chemistry)
Robinson, Ruth Fenton *Milwaukee*
B.A., Milwaukee-Downer College Scholar in European History
Roseberry, Leslie *Lincoln, Nebr.*
M.A., University of Nebraska Honorary Scholar in Economics
Rosenbaum, Chester Karl *Fond du Lac*
M.A., University of Wisconsin Fellow in Chemistry
Sarles, William Bowen *Madison*
M.S., University of Wisconsin Fellow in Agricultural Bacteriology
Sazama, Frank Bernard *Colby*
B.S., University of Wisconsin Scholar in Economic Entomology
Schacht, Franklin Ludwig *Racine*
M.S., University of Wisconsin
Industrial Research Fellow in Agricultural Bacteriology
Scheuber, Lillian Margaret *Milwaukee*
M.A. University of Wisconsin Fellow in Botany
Schlossmacher, Stephan John *Milwaukee*
Grad., Cologne University Julius G. O. Zentner Scholar in German
Schmidt, Gertrude I *Northfield, Minn.*
B.A., Carleton College Fellow in Economics
Schneider, John Simcon *Madison*
M.A., University of South Carolina Fellow in History
Schrader, Inez Mason *Madison*
B.S., University of Wisconsin
Industrial Fellow in Agricultural Chemistry

Schultz, Theodore William — *Hetland, S. Dak.*
M.S., University of Wisconsin — Fellow in Agricultural Economics
Sellery, George Bapty — *Madison*
B.A., University of Wisconsin — Fellow in Economics
Shaw, Luther — *Saxapoham, N. C.*
M.S., University of Arkansas — Fellow in Plant Pathology
Shipley, Walter Cleveland — *Clayton, Mo.*
M.A., University of Wisconsin — Fellow in Psychology
Shoemaker, Alice — *Philadelphia, Pa.*
M.A., University of Pennsylvania — Honorary Scholar in History
Solloway, Rose Lena — *Hartford, Conn.*
B.S., New York University — Paul Guenther Fellow in German
Spilman, Robert Frederick — *Madison*
B.S., Oklahoma Agricultural and Mechanical College
Honorary Scholar in Economics
Stafford, Elizabeth Thatcher — *Providence, R. I.*
M.S., Brown University — Fellow in Mathematics
Steinmetz, Hilda L. — *New Ulm, Minn.*
B.A., Rockford College — Scholar in Speech
Stephens, Henry LeRoy — *Dodgeville*
M.S., University of Wisconsin Research Fellow in Agricultural Chemistry
Strain, Camden Sackett — *Topeka, Kans.*
M.A., University of Wisconsin — Fellow in Political Science
Stratton, Robert — *Stillwater, Okla.*
M.A., Ohio State University — Honorary Scholar in Botany
Tatge, Vance John se — *Milwaukee*
B.S., Stout Institute — Industrial Scholar, School of Education
Taylor, John Elbert — *Emporia, Kans.*
M.A., University of Iowa — Honorary Fellow in History
Templin, Vera M. — *Baraboo*
M.A., University of Wisconsin
Industrial Fellow in Agricultural Chemistry
Thorp, William Hardy, Jr. — *San Jose, Cal.*
B.S., Montana Agricultural College
Industrial Fellow in Plant Pathology
Todd, Wilbert R. — *Waukesha*
B.S., University of Wisconsin
Industrial Fellow in Agricultural Chemistry
Van Donk, Evelyn Carol — *Green Bay*
B.S., University of Wisconsin
Industrial Fellow in Agricultural Chemistry
Waitt, Russell Edson — *Madison*
M.A., Colorado Teachers College — Scholar in Sociology
Wang, Chu Chuan — *Peking, China*
B.S., Geological Institute — Honorary Scholar in Geology
Wehrle, Otto William — *Milwaukee*
B.S., University of Wisconsin — Fellow in Mechanics
Wehrwein, Carl Frederick — *Manitowoc*
M.S., University of Wisconsin — Fellow in Agricultural Economics
Welsh, William Edward — *Madison*
D.V.M., Iowa State College — Industrial Fellow in Veterinary Science
Weyker, Lawrence M. — *Dousman*
M.S., University of Wisconsin — Industrial Fellow in Soils
Whiteley, Albert Spence — *Victoria, B. C., Can.*
M.A., University of Pittsburgh — Fellow in Economics
Whitney, William Percy — *Springfield, Ill.*
B.S., University of Illinois — Industrial Fellow in Mining and Metallurgy
Wilson, Thomas Wayne — *Indianapolis, Ind.*
B.A., Butler University — Scholar in American History

Witzel, Stanley Arthur — *Rudd, Iowa*
B.S., Iowa State Agricultural College
Research Fellow in Hydraulic and Sanitary Engineering

Wolberg, Floyd Byron — *Iola*
B.S., University of Wisconsin — Industrial Fellow in Animal Husbandry

Woo, William Hua-Fuh — *Shanghai, China*
M.S., University of Wisconsin — Fellow in Structural Engineering

OTHER GRADUATES

Aaberg, Monrad Edward B.A., University of Wisconsin	Anatomy m	*Greenwood*
Ableiter, James Kenneth B.S., University of Wisconsin	Soils	*Fennimore*
Alberts, Max Henry B.A., University of Wisconsin	Agricultural Economics	*Madison*
Albright, Penrose Strong M.S., University of Wisconsin	Chemistry	*Madison*
Alexander, Charles M.A., University of Iowa	Economics	*Mount Vernon, Iowa*
Allen, Alice Standish B.A., Mount Holyoke College	Geology	*Glencoe, Illinois*
Allen, Florence E. Ph.D., University of Wisconsin	Mathematics	*Madison*
Allen, Oscar Nelson M.A., University of Texas	Agricultural Bacteriology	*Ennis, Tex.*
Allen, Thomas Cort M.S., Oregon State College	Economic Entomology	*Madison*
Allgeier, Rudolph Joseph M.S., University of Wisconsin	Agricultural Chemistry	*Chicago, Ill.*
Almon, Grover Cleveland B.S., University of Wisconsin	Mining and Metallurgy	*Milwaukee*
Almon, Lois M.A., University of Wisconsin	Agricultural Bacteriology	*Milwaukee*
Altabe, Jeannette M.A., University of Illinois	Romance Languages	*Urbana, Ill.*
Alvord, Carrie Ellen B.A., Macalester College	Speech	*Washburn*
Amborn, Lewis William se B.S., University of Wisconsin	Education	*Genoa City*
Ambrose, Alice Loman M.A., University of Wisconsin	Philosophy	*Lexington, Ill.*
Amlie, Rosalie B.S., University of Wisconsin	English	*Madison*
Ammon, Ralph E. M.S., University of Wisconsin	Sociology	*Madison*
Anderson, Alice Emerence B.A., University of Wisconsin	Comparative Literature	*Madison*
Anderson, Arthur Bernhard B.A., University of Wisconsin	Organic Chemistry	*North Fond du Lac*
Anderson, Wells Foster B.A., University of Wisconsin	Geology	*Madison*
Andree, Clarence A. M.S., University of Wisconsin	Electrical Engineering	*Madison*
Appelt, Ewald Paul M.A., Northwestern University	German	*Madison*
Archambeault, Robley Cecil B.A., San Jose State College	Chemistry	*San José, Cal.*
Archer, Evelyn Viola M.A., Radcliffe College	English	*Cambridge, Ohio*

Ardrey, Hessie Doris se B.A., Monmouth College	Physical Education	*Denver, Colo.*
Arnold, Orlan McGrew B.A., Grinnell College	Chemistry	*York, Nebr.*
Atanasoff, John Vincent M.S., Iowa State College	Mathematics	*Madison*
Aull, George Hubert M.S., University of Virginia	Agricultural Economics	*Clemson College, S. C.*
Austin, Alice Mary M.A., University of North Dakota	Mathematics	*Madison*
Ayres, Gilbert Haven B.A., Taylor University	Chemistry	*Upland, Ind.*
Azpill, Edward William B.S., University of Wisconsin	Steam and Gas Engineering	*Milwaukee*
Backus, Katharine Elizabeth B.A., West Virginia University	Latin	*Montgomery, W. Va.*
Backus, Merton Llewellyn M.A., University of Wisconsin	English	*Madison*
Baernstein, Laura Nelson M.A., University of Wisconsin	Psychology	*Madison*
Baier, Joseph George, Jr. M.S., Rutgers University	Zoology	*New Brunswick, N. J.*
Bailey, Lawrence Gary se M.A., University of South Carolina	Education	*Kershaw, S. C.*
Bailey, Ralph Jerdan B.S., University of Pittsburgh	Zoology	*Pittsburgh, Pa.*
Ballam, George A. M.S., University of Wisconsin	Chemistry	*Madison*
Ballback, Nathan Anthony B.A., Michigan State College	English	*Detroit, Mich.*
Banfield, Walter Miller B.S., Rutgers University	Plant Pathology	*Little Falls, N. J.*
Bardeen, John M.S., University of Wisconsin	Electrical Engineering	*Madison*
Bardwell, Richard Woleben se M.A., University of Chicago	Education	*Madison*
Barker, Russell Harold M.A., University of Wisconsin	English	*Madison*
Barron, James Joseph B.S., University of Minnesota	Mathematics	*Hawkins*
Bartlett, Phyllis B.L., Oxford University	English	*New York, N. Y.*
Barwaser, Norbert Clement B.A., University of Wisconsin	Chemistry m	*Chicago, Ill.*
Bassett, Gladys Barton se B.A., Vassar College	Education	*Madison*
Bassett, Josephine Bevelyn B.A., University of Wisconsin	Chemistry	*Baraboo*
Batchelder, George W. B.A., Carleton College	Chemistry	*Faribault, Minn.*
Bauch, Dorothy Christine B.A., University of Wisconsin	Botany	*Wauwatosa*
Bauer, Theodore William se B.A., Mission House College	History	*Plymouth*
Bauer, Walter Herman B.S., Oregon State College	Chemistry	*Corvallis, Ore.*
Baugh, Russell Hugh M.A., University of Wisconsin	Economics	*Springfield, Mo.*
Baum, Peggy Montana se M.A., University of Minnesota	French	*Austin, Minn.*

Baumann, Carl August B.S., University of Wisconsin	Agricultural Chemistry	*Milwaukee*
Baumann, Carl L. Ph.., Basel University, Switzerland	German	*Basel, Switzerland*
Bauschard, Hermina Katherine M.A., University of Michigan	Geography	*Erie, Pa.*
Bayla, Arsenio M. M.S., University of Wisconsin	Agricultural Economics	*Silang, Cavite, P. I.*
Bayles, Burton Bernard M.S., Kansas State Agricultural College	Plant Pathology	*Moccasin, Mont.*
Bayliss, Zoe Burrell B.S., Kent State Normal College	Psychology	*Madison*
Beard, Marshall Rust M.A., University of Wisconsin	History	*Marion, Ind.*
Beath, Paul Robert B.A., University of Illinois	English	*Gothenburg, Nebr.*
Becker, Hans Ph.D., University of Leipzig	Chemistry	*La Crosse*
Bedessem, Roy Victor B.S., University of Wisconsin	Geology	*Leipzig, Germany*
Beecher, John Newman B.A., University of Alabama	English	*Birmingham, Ala.*
Behm, Wilfred Wahle B.S., University of Wisconsin	Highway Engineering	*Davenport, Iowa*
Behnke, Rufus Edward B.A., Northland College	Chemistry	*Ashland*
Bell, Earl H. B.A., Iowa State Teachers College	Sociology and Anthropology	*Madison*
Bell, Earl R. B.A., University of Wisconsin	Physics	*Madison*
Bell, Fern Ruth B.A., University of Wisconsin	Botany	*Madison*
Bell, Mary Louise B.A., University of Wisconsin	English	*Milwaukee*
Belzecki, Stanislaw Jan M.A., University of Wisconsin	Economics	*Warsaw, Poland*
Benedict, Reginald Ralph M.S., University of Wisconsin	Electrical Engineering	*Medford*
Bennett, Ethel M. Granger M.A., University of Wisconsin	French	*Madison*
Bennett, Grace Irene B.S., University of Wisconsin	Psychology	*Three Lakes*
Beran, Milo se M.A., Northwestern University	Education	*Madison*
Bere, Ruby M.S., University of Manitoba	Zoology	*Regina, Sask., Can.*
Bergstrom, John Albin se B.S., Stout Institute	Industrial Education	*Superior*
Bersche, Raymond Jacob B.A., Washington University	Sociology	*Waterloo, Ill.*
Beyer, Frank Kemp B.S., Cornell University	Forest Products	*Buffalo, N. Y.*
Beyer, Gertrude Margaret M.A., University of Wisconsin	History	*Madison*
Bier, Wallace Jacob B.A., University of Wisconsin	Accounting	*Mount Horeb*
Biester, Lillian L. B.A., North Central College	Political Science	*Belvidere, Ill.*
Billington, Lucile Katherine B.S., University of Wisconsin	Home Economics	*Wausau*
Bilstad, Nellie Mae M.A., University of Wisconsin	Zoology	*Cambridge*

Birong, Loraine A. B.A., University of Wisconsin	Chemistry	*Madison*
Blackenburg, Howard M.A., University of Washington	History	*Newberg, Ore.*
Blahnik, Albert Roy B.S., University of Wisconsin	Dairy Husbandry	*Algoma*
Blake, Henry Warren B.A, University of Wisconsin	Speech	*Madison*
Blank, Lester Marion M.S., University of Wisconsin	Plant Pathology	*Topeka, Kans.*
Blatecky, Joseph, Jr. 1 B.A., University of Wisconsin	Political Science	*Milwaukee*
Boe, Dagny B.A., St. Olaf College	Romance Languages	*Sioux Falls, S. Dak.*
Boe, Karen Elizabeth B.A., St. Olaf College	English	*Sioux Falls, S. Dak.*
Boell, Jesse Edward M.A., University of Nebraska	History	*Lincoln, Nebr.*
Bogard, Herman se B.A., Morningside College	Education	*Mount Horeb*
Bogholt, Carl B.S., Massachusetts Agricultural College	Philosophy	*Madison*
Bolander, Lester M. B.S., Purdue University	Chemistry	*Oaklandon, Ind.*
Boner, Albert Jay M.D., University of Illinois	Medical Science	*Madison*
Boning, William Jones M.A., University of Wisconsin	French	*Milwaukee*
Bopp, Karl Richard M.A., University of Missouri	Economics	*Kirkwood, Mo.*
Bosch, Richard Graduate, Commonwealth College	Economics	*Atwater, Minn.*
Bottke, Karl George B.A., Butler University	Romance Language	*Indianapolis, Ind.*
Boyd, Rufin W. se B.A., University of Wisconsin	History	*Edgerton*
Boyer, Esther L. B.A., Western Union College	Zoology	*Reddick, Ill.*
Boyle, Lytton Wesley M.S., Washington State University	Plant Pathology	*Fargo, N. Dak.*
Braatz, Gilbert M.E., Marquette University	Metallurgy	*Milwaukee*
Bradshaw, Ira S. M.A., University of Arizona	Political Science	*Madison*
Bradshaw, Mary Eloise M.A., University of Wisconsin	History	*Summit, N. J.*
Bradshaw, Sophie M. B.A., North Texas State Teachers College	Home Economics	*Madison*
Braun, Herbert Adolph M.S., University of Wisconsin	Pharmacy	*Milwaukee*
Brayton, Richard K. B.S., University of Wisconsin	English	*Madison*
Breakey, Edith Woollett M.S., University of Michigan	Botany	*Madison*
Brenner, Abner B.A., University of Missouri	Chemistry	*Kansas City, Mo.*
Briese, Reinhold R. B.A., St. Olaf College	Organic Chemistry	*Chicago, Ill.*
Bright, Grace H. B.A., Manchester College	English	*McPherson, Kans.*
Bright, John Daniel M.A., University of Wisconsin	History	*McPherson, Kans.*

Britell, Mabel B.A., Wayne State Teachers College	Botany	*Wayne, Nebr.*
Brockert, Clarence Adams se B.A., Platteville Teachers College	Education	*Platteville*
Broene, Frances Martina M.A., University of Michigan	English	*Grand Rapids, Mich.*
Bronson, Theodore Earl B.S., University of Wisconsin	Economic Entomology	*Madison*
Brossow, Olive Lillian B.A., Northland College	English	*Withee*
Brouse, Don Ch.E., Purdue University	Chemistry of Forest Products	*Madison*
Brown, Lawrence Wayneworth B.S., University of Wisconsin	Dairy Husbandry	*Milwaukee*
Brown, Lorraine Charlotte B.A., University of Wisconsin	Physiology	*Madison*
Brown, Russell G. C. B.A., University of Toledo	Romance Languages	*Toledo, Ohio*
Bruns, Lydia B.A., University of Wisconsin	Psychology	*Madison*
Bruton, Esther Newberry B.A., Greensboro College	English	*Sewanee, Tenn.*
Bruton, Gaston Swindell M.A., University of North Carolina	Mathematics	*Sewanee, Tenn.*
Bubolz, Esther Emily B.A., Capital University	English	*Seymour*
Bumbalek, John Loudy B.S., University of Wisconsin	Agronomy	*Madison*
Bunge, Helen L. B.A., University of Wisconsin	Sociology	*La Crosse*
Burdick, Harold E. B.A., Doane College	Chemistry	*David City, Nebr.*
Burk, Earl Frederick M.S., Iowa State College	Horticulture	*Ottawa, Kans.*
Burkhart, Bernard A. B.S., Beloit College	Agricultural Chemistry	*Beloit*
Burton, Frederick Randall M.S., McGill University	Geology	*Montreal, Can.*
Butts, Porter Freeman B.A., University of Wisconsin	Art History	*Madison*
Byrns, Lois Elizabeth Anne se B.A., University of Wisconsin	Education	*Madison*
Byrns, Ruth Katherine se M.A., University of Wisconsin	Educational Psychology	*Madison*
Cable, Chester Hubbard B.A., Monmouth College	English	*Monmouth, Ill.*
Caddock, Charles Thomas, Jr. M.A., University of Wisconsin	Romance Languages	*Newark, N. J.*
Caldwell, Ralph Merrill Ph.D., University of Wisconsin	Botany	*Madison*
Caldwell, William Elmer B.S., University of Wisconsin	Chemistry	*Madison*
Cameron, Eugenia Sue B.A., University of Michigan	Zoology	*Madison*
Campbell, Jane Elizabeth B.A., Irving College	American History	*Mechanicsburg, Pa.*
Campbell, Ruth se B.A., University of Wisconsin	Education	*Lebanon, Ind.*
Card, William Martin B.A., University of Nebraska	English	*Lincoln, Nebr.*
Cardwell, Alvin Boyd M.S., University of Wisconsin	Physics	*Lenoir City, Tenn.*

Carlson, Thorwald A. M.S., University of Wisconsin	Chemistry of Forest Products	*Madison*
Carmichael, Herbert Kenneth B.A., Muskingum College	Speech	*Martins Ferry, Ohio*
Carranza, Matilde M.A., University of Wisconsin	Spanish	*New York, N. Y.*
Carter, Thomas Chauncey M.A., Colorado Teachers College	Zoology	*Alva, Okla.*
Carville, Virginia Elizabeth B.A., Radcliffe College	English	*Quincy, Mass.*
Cass, Carl B. B.A., University of Minnesota	Public Speaking	*Madison*
Caster, Jay Edward Ph.M., University of Wisconsin	Psychology	*Madison*
Caster, Lloyd Hersey B.A., University of Richmond	History	*Richmond, Va.*
Casterline, Margaret Lee se B.A., University of Wisconsin	Speech	*Milwaukee*
Cave, Hazel Arvilla se B.A., Iowa State Teachers College	Physical Education	*Elgin, Iowa*
Cavender, John Clinton B.A., DePauw University	Physics	*Hobart, Ind.*
Chaine, Julia M. M.A., Columbia University	English	*Toronto, Ohio*
Chalfant, Ruth Jean B.A., University of Wisconsin	Medical Science m	*Baltimore, Md.*
Chamberlain, Donald William B.A., St. Norberts College	Biology	*Green Bay*
Chandler, George Anthony B.S., University of Wisconsin	Education	*Madison*
Chandler, William Stephen se B.S., University of Wisconsin	Sociology	*Madison*
Chang, Chi Hsien B.A., University of Wisconsin	Political Science	*Shanghai, China*
Chang, Tsung Yuang B.A., Nankai University	Political Science	*Sanho, Anhui, China*
Chapin, Elizabeth M.A., Bryn Mawr College	History	*Boston, Mass.*
Chapman, A. Dale B.S., University of Minnesota	Plant Pathology	*Shatopee, Minn.*
Charlton, Dolores Beale se B.A.,Iowa State Teachers College	Physical Education	*Apple River, Ill.*
Charmley, Beulah B.A., University of Wisconsin	English	*Madison*
Chechik, Sam B.S., University of Wisconsin	Pharmacy	*Madison*
Chiang, Kuo Yiang B.A., National University of Peking	Economics	
Christman, Laura Ethel B.S., Northwestern University	Mathematics	*Chicago, Ill.*
Chu, William Hsi-Liang se M.A., University of Wisconsin	Education	*Kiangsi, China*
Chu, Ying Chou B.A., Nankai University	Economics	*Hunan, China*
Chucka, Jospeh Anthony M.S., University of Wisconsin	Soils	*Beaver*
Cilley, Melissa Annis M.A., University of Wisconsin	Romance Languages	*Colebrook, N. H.*
Clapp, Claud Clarence M.A., University of Missouri	English	*Kansas City, Mo.*
Clark, Elizabeth M. M.A., University of Wisconsin	Comparative Literature	*Watertown, N. Y.*

Clark, Ralph W. M.S., University of Wisconsin	Pharmacy	*Madison*
Clark, William Noble B.S., University of Wisconsin	Agricultural Economics	*Madison*
Clarke, Alfred Ernest M.S., University of Alberta	Genetics	*Victoria, B. C., Can.*
Clarke, Helen I. M.A., University of Chicago	Sociology	*Chicago, Ill.*
Claus, Pearl Elizabeth M.A., University of Wisconsin	Zoology	*Madison*
Clifcorn, LaVerne Edward B.A., University of Wisconsin	Chemistry	*Madison*
Cluley, John Bowie se B.S., University of Wisconsin	Education	*Madison*
Cockefair, Edgar Augustus M.S., University of Wisconsin	Botany	*Madison*
Cole, Martin L. B.A., St. Olaf College	History	*Sioux Falls, S. Dak.*
Cole, Minnie Bruins M.S., University of Wisconsin	Home Economics	*Madison*
Colman, Susan Elizabeth se Ph.B., University of Wisconsin	Education	*Superior*
Commons, Rachel S. B.A., University of Wisconsin	Anthropology	*Madison*
Connor, Ralph Alexander B.S., University of Illinois	Chemistry	*Newton, Ill.*
Conner, Ralph Emerson B.A., University of Wisconsin	Economics	*Cincinnati, Ohio*
Cook, Hulet H. M.A., University of Wisconsin	Romance Languages	*Madison*
Cooper, Delmer C. M.S., University of Purdue	Botany	*Madison*
Cooper, William Alexander B.A., Stanford University	Medicine m	*Wauwatosa*
Cope, Arthur Clay B.S., Butler University	Chemistry	*Madison*
Coqulin, Lydie Jeanne B.A., Cornell College	Romance Languages	*Nevers, France*
Corfield, Barbara B.A., University of Wisconsin	History	*Madison*
Cottingham, Willard Sherwin B.S., University of Wisconsin	Structural Engineering	*Madison*
Cotton, Juliana Maria Sofia M.A., University of Wisconsin	Italian	*London, England*
Covert, Lloyd Wesley B.S., Oregon State College	Chemistry	*Nampa, Idaho*
Covert, Marjorie Anna M.A., University of Wisconsin	Romance Languages	*Albany, Mo*
Cowgill, Eileen Ann B.S., University of Wisconsin	Journalism	*Madison*
Coyne, Anna R. B.A., University of Wisconsin	Medical Science m	*Madison*
Craft, William Arthur M.S., Iowa State College	Genetics	*Stillwater, Okla.*
Cralley, Elga M. B.S., McKendree College	Botany	*Mount Olive, Ill.*
Cramer, Howard Irving M.S., University of Wisconsin	Chemistry	*Cuyahoga Falls, Ohio*
Crase, Elizabeth Jane Ph.M., University of Wisconsin	Agricultural Chemistry	*Brookings, S. D.*
Croft, Albert Ernest M.A., University of Wisconsin	Sociology	*Madison*

Cronin, Katherine Lucille se M.A., Columbia University	Physcial Education	*Oconomowoc*
Crook, Kenneth Edwin M.S., Oklahoma University	Chemistry	*Madison*
Cross, Paul Clifford B.S., Geneva College	Chemistry	*Bruin, Pa.*
Cross, S. Zenophon B.A., Wayne State Teachers College	Zoology	*Wayne, Nebr.*
Crowe, Edith B.S., University of Wisconsin	Home Economics	*Fort Wayne, Ind.*
Crowley, Regina Catherine M.A., University of Wisconsin	Education	*Madison*
Crozier, Ronald Gilpin M.S., University of Wisconsin	Chemistry	*Madison*
Crumbaker, Calvin M.A., University of Washington	Economics	*Madison*
Cuneo, Norberto Juan M.A., University of Wisconsin	Economics	*Pergamino, Argentina*
Curran, George William B.S. University of Wisconsin	Electrical Engineering	*Coloma*
Curran, Mabel G. Errickson se B.A., University of Wisconsin	Education	*Coloma*
Daggett, Clay Justin se M.A., American University	Education	*Whitewater*
Dahl, Arnold S. M.S., University of Wisconsin	Plant Pathology	*Superior*
Dahlberg, Arthur O. M.A., University of Wisconsin	Sociology	*Madison*
Dallera, Mary Henriette B.A., Chile University	Romance Languages	*Madison*
Dalton, Margaret R. M.A., University of Wisconsin	English	*Northfield, Minn.*
Daniel, Maggie Browne B.A., Wiley College	English	*Marshall, Tex.*
Davidson, Leah R. B.A., University of Wisconsin	Romance Languages	*Madison*
Davis, Dorothy se B.A., Western College	Education	*Newark, Ohio*
Davis, Ira Cleveland se B.A., Ripon College	Education	*Madison*
Davis, Myrl Nelson M.A., University of Wisconsin	Physics	*Milton*
Davy, Leita M.S., University of Iowa	Radiology	*Conneaut, Ohio*
DeCourcy, Mildred Claire M.A., University of Wisconsin	English	*Milwaukee*
Dedrick, Calvert Lampert B.A., University of Wisconsin	Sociology	*Madison*
DeHaven, J. Robert B.A., University of Wisconsin	English	*South Bend, Ind.*
DeLong, Leona Adelia B.A., Syracuse University	History	*Trumansburg, N. Y.*
Deobald, Harold John B.S., Ohio State University	Agricultural Chemistry	*Cleveland, Ohio*
Dewdney, Raymond Jerome B.A., Providence College	English	*Madison*
Dexter, Stephen Torrey M.S., University of Wisconsin	Chemistry	*Ashland*
Dickson, Allan D. Ph.D., University of Wisconsin	Agricultural Chemistry	*Yakima, Wash.*
Diederich, Dorothy Ann B.A., Saint Mary's College	Medicine	*Madison*

Dillon, Frances Helen se B.A., College of Wooster	Physical Education	*Oroville, Cal.*
Dillon, John Henry M.A., University of Wisconsin	Physics	*Ripon*
Dissinger, Ira Thorne Clement M.A., University of Michigan	English	*Sunburg, Pa.*
Diwoky, Fred Frank M.S., University of Wisconsin	Organic Chemistry	*Council Bluffs, Iowa*
Dodge, Hiram Alfred B.S., University of Vermont	Animal Husbandry	*Madison*
Doering, Effie Alene se M.A., University of Wisconsin	Education	*Darlington*
Donlin, William Francis B.A., University of Wisconsin	Physiological Chemistry m	*Madison*
Donovan, Anthony B.A., University of Wisconsin	Anatomy	*Madison*
Doudna, Dorothy Marie M.A., University of Wisconsin	English	*Lake City, Mich.*
Doughty, Randall Hubert M.A., University of Wisconsin	Chemistry of Forest Products	*Madison*
Douglas, George A. B.A., University of Michigan	Sociology	*Ann Arbor, Mich.*
Doutt, Genavieve B.A., Southern College	Latin	*Tionesta, Pa.*
Dow, Jean B.A., University of Michigan	English	*Ann Arbor, Mich.*
Downs, Leslie E. B.Ch.E., Iowa State College	Chemistry of Forest Products	*Madison*
Draize, John Henry B.S., University of Wisconsin	Pharmacology	*Madison*
Draper, Mary Brewster B.A., University of Rochester	Geology	*Rochester, N. Y.*
Druse, J. Benton B.S., University of Wisconsin	Mining and Metallurgy	*Milwaukee*
Duff, James M.A., University of Virginia	English	*Madison*
Duffield, Eugene Schulte B.A., University of Wisconsin	History	*Denver*
Duncan, Mary Magdalen M.A., University of Wisconsin	English	*Huron, S. Dak.*
Dunlap, Albert Atkinson Ph.D., Yale University	Botany	*Bowdoinham, Maine*
Durand, Loyal Jr. M.A., University of Wisconsin	Geography	*Milwaukee*
Durkin, Margaret Winifred B.A., University of Montana	French	*Anaconda, Mont.*
Dynes, John Burton B.A., University of Wisconsin	Psychology m	*Mount Carroll, Ill.*
Dynes, John Joseph se M.A., Iowa University	Education	*Madison*
Eastwood, Paul Roberg M.S., University of Wisconsin	Chemical Engineering	*Platteville*
Ebling, Walter Henry Ph.D., University of Wisconsin	Agricultural Economics	*Madison*
Eckhardt, Marie McLean B.A., Wellesley College	Bacteriology	*Shelton, Conn.*
Edmondson, Susanna Porter B.A., Randolph-Macon Women's College	French	*Montgomery, Ala.*
Eitzman, Edwin Theodore B.D., McCormick Seminary	Sociology	*Madison*
Ellerman, Raymond Henry se B.S., University of Wisconsin	Physical Education	*Chicago, Ill.*

Ellis, Glee Lenore B.A., Milton College	Chemistry	*Battle Creek, Mich.*
Ellis, Lippert Spring B.S., University of Wisconsin	Agricultural Economics	*Madison*
Ells, Elizabeth Sherman B.A., Smith College	Medical Science m	*Milwaukee*
Engelke, Walter William B.A., University of Wisconsin	Political Science	*La Crosse*
Epple, Alice Margaret se B.A., Northwestern University	Education	*Chicago, Ill.*
Erickson, Alice Christine B.A., Milwaukee-Downer College	English	*West Allis*
Erikson, Robert M.S., University of Wisconsin	Mathematics	*Madison*
Eschweiler, Elaine Katherine B.A., University of Wisconsin	German	*Madison*
Essock, Marion B.Ed., Whitewater State Teachers College	Economics	*Whitewater*
Evans, Edward Humphrey M.A., University of Wisconsin	History	*Oconomowoc*
Evans, Evan A. M.A., Harvard University	English	*Baraboo*
Evans. Richard Irving M.S., University of Wisconsin	Botany	*Fort Wayne, Ind.*
Ewbank, Henry Lee M.A., University of Michigan	Speech	*Madison*
Ewing, Mabel Carlson B.A., Colorado College	Romance Languages	*Montevideo, Uraguay, S. A.*
Eyster, Alice Brownell M.A., University of Wisconsin	Psychology	*Madison*
Fairbairn, Harold Williams B.S., Queen's University	Geology	*Ottawa, Ont., Can.*
Falk, Philip Hadley se M.A., University of Wisconsin	Education	*Lake Mills*
Fargo, John Merrill M.S., University of Wisconsin	Animal Husbandry	*Madison*
Fehlandt, Philip Raymer B.A., Ripon College	Chemistry	*Ripon*
Feldman, Elizabeth Ann B.A., University of Wisconsin	German	*Madison*
Fellows, Donald Ross M.A., University of Wisconsin	Economics	*Madison*
Fenster, Ruth M.A., University of Wisconsin	German	*New York, N. Y.*
Ferguson, Alma Catherine B.A., Spelman College	Mathematics	*Pine Bluff, Ark.*
Fernholz, Donald Leslie B.A., Milton College	Botany	*Delavan*
Filson, George W. M.A., University of Wisconsin	Chemistry	*Kiowa, Kans.*
Finch, Sharon Lea M.A., University of Michigan	Latin	*Madison*
Findorff, Arline Katherine se B.A., University of Wisconsin	Education	*Madison*
Finley, Ada Brownell B.S., Columbia University		*Madison*
Fischer, Earl K. M.A., University of Southern California	Physiological Chemistry	*Los Angeles, Cal.*
Fisher, Goebel Earl B.A., University of Wisconsin	History	*Madison*
Fitschen, John Allyn B.S., Northwestern University	Economics	*Olivia, Minn.*

Fitz, Kathleen se B.A., Stanford University	Education	*Madison*
Flint, Rebecca Punchard M.A., University of Wisconsin	Romance Languages	*Madison*
Fogelberg, John M. B.S., University of Wisconsin	Physical Chemistry	*South Range*
Folkers, Karl August B.S., University of Illinois	Chemistry	*Decatur, Ill.*
Folts, David K. B.A., Occidental College	Chemistry	*Darien*
Foote, Marian B.S., University of Wisconsin	Bacteriology	*Madison*
Forbes, Marjorie Louise se B.A., University of Wisconsin	French	*Madison*
Fossum, Peter Even B.A., St. Olaf College	Physics	*Northfield, Minn.*
Frank, B. Evelyn M.A., Northwestern University	Mathematics	*Evanston, Ill.*
Franklin, Bertha Englund se M.A., University of Wisconsin	Education	*Madison*
Frazier, Milton R. se Ph.B., University of Wisconsin	Education	*Cambridge*
Fredericks, Edward Thomas B.S., Howard University	Zoology	*Sedalia, Mo.*
Frentzel, Herman C. M.E., Marquette University	Metallurgy	*Milwaukee*
Fricker, Will Henry B.A., University of Wisconsin	Economics	*Whitewater*
Fries, Horace Snyder Ph.M., University of Wisconsin	Philosophy	*Madison*
Friese, John Frank se B.S., Bradley Polytechnic Institute	Industrial Education	*Madison*
Fritts, Charles C., Jr. B.S., Pennsylvania State College	Geology	*Titusville, Pa.*
Furman, Anastasia B.A., Ripon College	English	*Larsen*
Gallagher, Kathryn Anne Ph.B., University of Wisconsin	Journalism	*Oconto Falls*
Gamble, Lucy Belle B.A., Reed College	English	*Portland, Ore.*
Ganong, Carey Kierstead M.A., Toronto University	Economics	*Jemseg, N. B., Can.*
Gardner, William Jacob se B.A., DePauw University	Education	*West Lafayette, Ind.*
Garrett, Constance Elizabeth M.A., Peabody College	History	*Atlanta, Ga.*
Garrett, Dora Finley B.A., Baylor University	Zoology	*Mason, Tex.*
Garrison, Jesse Janes M.A., University of Michigan	Art History	*Hartford, Mich.*
Gasool, Anne M.A., Cornell University	Romance Languages	*Kingston, N. Y.*
Gebhardt, Hans Theodor M.S., University of Wisconsin	Dairy Husbandry	*Tiengen, Waldshut, Germany*
Gebhardt, Karl Frederick B.A., University of Wisconsin	Economics	*Madison*
Gerig, Daniel S., Jr. B.A., Wooster College	Economics	*Goshen, Ind.*
Gerling, George Fernand B.A., University of Wisconsin	Journalism	*La Crosse*
Getchell, Robert Ward M.S., University of Wisconsin	Chemistry	*Waterloo, Iowa*

Geweke, Lenore Hilda se B.A., Northwestern College	Classics	*Watertown*
Gibbon, Alice Barbara Certificate of Social Science, Bedford College, London	Economics	*New Barnet, Eng.*
Gibson, Delbert L. B.A., University of Wisconsin	French	*Akron, Ohio*
Gibson, Earle Arthur B.S., University of Wisconsin	Plant Pathology	*Madison*
Gibson, Joshus Sullivan Ph.M., University of Wisconsin	Geography	*Bend, Tex.*
Giddings, Glenn Ward M.A., University of Wisconsin	Physics	*Madison*
Gillin, John Philip B.A., University of Wisconsin	Sociology	*Madison*
Gilmore, Eugene Allen, Jr. M.B.A., Howard University	Economics	*Madison*
Gilmore, Robert Ogden B.A., Brown University	Mathematics	*East Providence, R. I.*
Glasoe, G. Norris M.A., University of Wisconsin	Physics	*Northfield, Minn.*
Glass, Charles Robert M.S., University of Wisconsin	Chemistry	*Milwaukee*
Glover, Wilbur Hillman M.A., University of Wisconsin	History	*Madison*
Gnagey, J. Paul se B.A., Mount Morris College	Education	*Milledgeville, Ill.*
Goble, Alfred Theodore B.A., University of Wisconsin	Physics	*River Falls*
Goff, Thomas Theodore se B.S., Oklahoma Agricultural and Mechanical College	Education	*Whitewater*
Gojdics, Mary B.S., Pennsylvania State College	Zoology	*Farrell, Pa.*
Goldberger, Esther White B.A., University of Wisconsin	Medical Science m	*Milwaukee*
Goldsmith, Joseph Benjamin M.A., Oklahoma University	Zoology	*Madison*
Gooding, Ralph U. B.S., University of Wisconsin	Chemistry	*Madison*
Goodwin, Kathryn Dickinson M.A., University of Wisconsin	Sociology	*Madison*
Gordon, Ruth Rose	Economics	*Brooktondale, N. Y.*
Gosling, Arthur Warrington se B.A., University of Wisconsin	Education	*Madison*
Gosling, Wilhemina B. B.A., University of Wisconsin	Spanish	*Madison*
Grasse, Harold F. Ph.B., Ripon College	Mining and Metallurgy	*Ripon*
Gray, Nina Estella B.A., De Pauw University	Zoology	*Remington, Ind.*
Gray, Wayne Twinern M.A., University of Wisconsin	Rural Sociology	*Madison*
Green, Alpheus B.A., University of Michigan	Romance Languages	*Burt, Mich.*
Green, Edith Cynthia M.A., University of Wisconsin	English	*Madison*
Greene, Ernest Wilfrid B.S., University of Wisconsin	Chemistry	*Madison*
Greene, Henry Campbell M.S., University of Wisconsin	Botany	*Crawfordsville, Ind.*
Greenfield, Margaret B.A., Hunter College	Economics	*New York, N. Y.*

Greer, William Leonard M.S., University of Wisconsin	Geology *Winnipeg, Man., Can.*
Griem, Walter B. M.S., University of Wisconsin	Agricultural Chemistry *Madison*
Griffith, Clement Hall B.S., Montana State University	Economic Entomology *Donedin, New Zealand*
Griggs, Charles Irvin M.A., University of Wisconsin	English *Madison*
Griswold, Louise M.A., University of Wisconsin	English *Madison*
Grover, Frank Harding B.A., University of Wisconsin	History *Galesville*
Guenther, Henry William se M.A., Baylor University	Education *Tahlequah, Okla.*
Gullette, Cameron Charles M.A., University of Wisconsin	Romance Languages *Madison*
Gunn, Evelyn Mary se M.A., University of Wisconsin	Education *Madison*
Gwin, Clarence Martin B.S., University of Wisconsin	Economic Entomology *Madison*
Habermehl, Gretchen B.A., University of Wisconsin	German *Milwaukee*
Hafey, John E. se B.A., Jamestown College	Education *Milwaukee*
Hagberg, Loreta Boies B.A., Milwaukee-Downer College	Romance Languages *Milwaukee*
Haig, John Nelson B.S., University of North Dakota	History *Madison*
Hale, Chauncey Clayton B.A., Ripon College	Chemistry *Omro*
Hale, Raymond Frederick B.A., University of Minnesota	Romance Languages *Rugby, N. Dak.*
Hall, Margaret Winslow B.A., Mount Holyoke College	History *Ashfield, Mass.*
Hallam, Arthur Wood B.A., University of Wisconsin	Agricultural Economics *Madison*
Halline, Allan Gates M.A., University of Wisconsin	English *Madison*
Halverson, Lynn Harvey M.A., University of Wisconsin	Geography *Madison*
Haman, Robert Walter B.S., University of Wisconsin	Agricultural Chemistry *Monroe*
Hamilton, James Morton Ph.D., University of Wisconsin	Plant Pathology *Mount Albert, Ont. Can.*
Hamilton, J. Stuart B.A., University of Wisconsin	Journalism *Westfield*
Hamre, Christopher John M.S., University of Wisconsin	Zoology *Blue Earth, Minn.*
Hancock, Howard J. se B.S., University of Wisconsin	Education *Madison*
Haney, Hance Francis M.A., University of Wisconsin	Physiology *Westfield*
Hanning, Hillis H. B.S., Hastings College	Chemistry *Madison*
Hansen, Einer Theodore B.S., University of Wisconsin	Steam and Gas Engineering *Thorp*
Hansen, Lester Arnold B.S., University of Wisconsin	Chemistry *Madison*
Hansen, Miriam M. B.S., Utah State Agricultural College	Sociology and Anthropology *Madison*
Hansen, Walter M.A., University of Nebraska	Geography *Madison*

Hanson, Arnold Edward se Ph.M.,University of Wisconsin	Education	*Madison*
Hanson, Loring Outhier B.S.CE University of Kansas	Mechanical Engineering	*Madison*
Harrington, Mary se B.A., Mount Holyoke College	Physical Education	*Buffalo, N. Y.*
Harris, Dorothy Elizabeth se B.A., University of Wisconsin	Botany	*Madison*
Harris, Lyman Henson, Jr. M.A., University of Wisconsin	History	*Tiptonville, Tenn.*
Harris, Marion Reinoehl M.S., University of California	Plant Pathology	*Madison*
Harris, Wilfred John B.A., University of Wisconsin	History	*Madison*
Hart, James Heney M.A., University of Chicago	Philosophy	*Madison*
Hart, William J. M.S., Iowa State College	Agricultural Economics	*College Park, Md.*
Harter, Donald Bruce B.A., University of Wisconsin	Journalism	*Oak Park, Ill.*
Hartung, Maurice Leslie M.A., University of Wisconsin	Mathematics	*Madison*
Hartzell, Ward B.A., DePauw University	History	*Anderson, Ind.*
Haskell, Harriet M.A., Bryn Mawr College	English	*La Golla, Cal.*
Hatfield, Ira M.S., Colorado Agricultural College	Plant Physiology	*Madison*
Havens, Glenn George M.S., University of Idaho	Physics	*Madison*
Hawkins, Frances Milner se B.S., University of Wisconsin	Physical Education	*Madison*
Hayden, Margaret Camilla M.A., University of Wisconsin	Mathematics	*Madison*
Hayes, John Barry B.S., University of Wisconsin	Animal Husbandry	*Madison*
Hays, Lucile C. se M.Ph., University of Wisconsin	Education	*Madison*
Hazel, J. Fred B.A., Kansas University	Chemistry	*Madison*
Healey, Lenore Louise B.S., Battle Creek College	Home Economics	*Madison*
Heath, Merle Alfred B.A., University of Iowa	Chemistry	*Waterloo, Iowa*
Heck, A. Floyd Ph.D., University of Wisconsin	Soils and Bacteriology	*Madison*
Helgeson, Earl Adrian B.S., Oregon State University	Botany	*Madison*
Henderson, John David B.A., Eureka College	Speech	*Franklin, Ill.*
Hendrickson, Adolph Alexander B.S., University of Wisconsin	Agricultural Bacteriology	*Holmen*
Hendrickson, Hilda Avidea M.A., University of Wisconsin	Speech	*Marshfield, Ore.*
Henika, Franklin Sinclair M.S., University of Wisconsin	Genetics	*Madison*
Henke, Louis Albert M.S., University of Wisconsin	Animal Husbandry	*Honolulu, Hawaii*
Henry, Frank E. B.S., University of Wisconsin	Agricultural Journalism	*Basco*
Henry, Jerome J. B.S., University of Wisconsin	Agricultural Journalism	*Basco*

Herrick, Virgil E. se Ph.B., University of Wisconsin	Education	*Stevens Point*
Herrin, Raymond Clyde Ph.D., University of Wisconsin	Physiology m	*Madison*
Herwick, Robert Port M.S., University of Wisconsin	Pharmacology and Toxicology m	*Connellsville, Pa.*
Herzog, Madeline Schafer se B.A., Wellesley College	Education	*Madison*
Herzog, Paul Max B.S., Harvard University	History	*New York, N. Y.*
Hibbard, Carlisle V. B.S., University of Wisconsin	Philosophy	*Madison*
Hickman, Russell Kenneth M.A., Harvard University	History	*La Porte, Ind.*
Hildebrand, Earl Martin M.S., University of Wisconsin	Plant Pathology	*Omro*
Hill, Henry Bertram B.A., University of New Hampshire	History	*Needham, Mass.*
Hill, Lola Mabel B.A., McPherson College	Home Economics	*McPherson, Kans.*
Hiller, Samuel Joseph B.A., University of Wisconsin	Medical Science m	*Milwaukee*
Hillis, Leonard Folsom B.S., University of Wisconsin	Structural Engineering	*Marinette*
Hilty, Palmer Andrew se B.A., University of Wisconsin	English	*Plymouth*
Hinderman, Roy Aaron se M.S., University of Wisconsin	Education	*Berlin*
Hippaka, Thomas August se M.S., University of Wisconsin	Education	*Madison*
Hirose, Sadao M.A., Waseda University	Political Science	*Japan*
Hocking, Elton Capper M.A., University of Wisconsin	Romance Languages	*Madison*
Hofer, Alvin William B.S., University of Illinois	Agricultural Bacteriology	*Cissna Park, Ill.*
Hoffman, Robert Michael B.S., Oregon State College	Chemistry	*Vernonia, Ore.*
Hofland, Synneva Emma se B.A., St. Olaf College	Physical Education	*Stoughton*
Hofstaedter, Helen Emily se B.A., University of Wisconsin	Physical Education	*Madison*
Hohf, John Paul B.A., Yankton College	Chemistry of Forest Products	*Worthing, S. Dak.*
Hohlfeld, Karl Voss M.A., University of Wisconsin	Economics	*Madison*
Holden, Eugene Davenport M.S., University of Wisconsin	Agronomy	*Madison*
Hollaender, Alexander B.A., University of Wisconsin	Chemistry	*Madison*
Hollister, Donald Edgar Ph.M., University of Wisconsin	Metallurgy	*Wauwatosa*
Holmes, Alice Isabel se B.A., University of Wisconsin	English	*Milton*
Holmes, Clayton Ernest B.S., University of Wisconsin	Genetics and Poultry Husbandry	*Madison*
Holmes, Ralph M. se B.A., Southwestern College	Music	*Wichita, Kans.*
Holt, Frank Oscar se Ph.M., University of Wisconsin	Education	*Madison*
Holt, Matthew Leslie M.S.,University of Wisconsin	Chemistry	*Ellsworth, Iowa*

Hood, G. Raymond M.S., Lafayette University	Chemistry	*Stroudsburg, Pa.*
Hood, Jean B.S., University of Wisconsin	Agricultural Bacteriology	*Marinette*
Hopkins, Ervin William M.S.,University of Wisconsin	Agricultural Bacteriology	*Randolph*
Houtz, Ray C. B.S., Brigham Young University	Chemistry	*Provo, Utah*
Howard, T. Lavron l M.A., University of Wisconsin	Economics	*Chattanooga, Tenn.*
Howe, Henry Edwin Ph.B., University of Wisconsin	Chemistry	*Prairie du Chien*
Howe, Winfred Chester M.A., University of Wisconsin	History	*Milwaukee*
Howk, Ben. Wilson B.S., University of Illinois	Chemistry	*Tuscola, Ill.*
Hrubesky, Clarence E. M.S., University of Wisconsin	Chemistry	*Menasha*
Hsiang, Lirren J. B.A., University of Wisconsin	Political Science	*Szechuan, China*
Hsu, Shang-wen B.A., Nankai University	Economics	*Hankow, China*
Hudtloff, Benjamin Leonard se B.A., Ripon College	Education	*Stevens Point*
Huebner, Erwin Otto M.S., University of Wisconsin	Chemistry	*Madison*
Hull, Harold Haight M.S., University of Madison	Soils	*Madison*
Hunkel, Victor Henry Ph.B., University of Wisconsin	Medicine	*Milwaukee*
Hunt, Robert Lee M.S., North Carolina State College	Agricultural Economics of Engineering and Agriculture	*College Station, Tex.*
Huntzicker, Harry Noble B.A., Macalester College	Chemistry	*Ivanhoe, Minn.*
Hupprich, Mabel J. se B.S., University of Wisconsin	Physical Education	*Madison*
Hutchinson, James Drake M.A., University of Illinois	Mathematics	*Urbana, Ill.*
Iglehart, Emily Powers B.A., University of Wisconsin	Comparative Literature	*Indianapolis, Ind.*
Inglis, Elizabeth Jefferson se B.A., Pomona College	History	*Van Nuys, Cal.*
Irwin, Merrill Finley B.S., Michigan State College	Agricultural Bacteriology	*East Lansing, Mich.*
Jaap, Robert George B.S., University of Saskatchewan	Genetics	*Coleville, Sask., Can.*
Jackman, Adelaide Klein B.A., Colby College	English	*Madison*
Jackman, Ernest se M.A., Columbia University	Education	*Madison*
James, Harry Raymond M.A., University of Kansas	Physics	*Madison*
Jeffris, Ruth Barbara M.A., University of Wisconsin	History	*Janesville*
Jenson, Clara A. M.A., University of Wisconsin	German	*Madison*
Jenson, Theodore Joel se Ph.B., University of Chicago	Vocational Education	*Elk Mound*
Jerome, Gladys S. M.A., University of Wisconsin	English	*Madison*

Johnson, Arzalia Slyoff B.A., University of Wisconsin	History	*Burlington, N. J.*
Johnson, Burt Parker B.A., Park College	Botany	*Monett, Mo.*
Johnson, Carl Emanuel se B.A., Lawrence College	Education	*Eau Claire*
Johnson, Charles Melbourne B.S., University of Wisconsin	Pharmacy	*Madison*
Johnson, Edward Wallace se B.A., University of Wisconsin	Education	*Evansville*
Johnson, Elizabeth Sands B.A., Wellesley College	Economics	*Pittsburgh, Pa.*
Johnson, George Carl se M.A., University of Wisconsin	English	*Madison*
Johnson, George Olaf B.A., Milton College	Chemistry	*Port Wing*
Johnson, Marvin Joyce B.A., University of Wisconsin	Agricultural Chemistry	*Madison*
Johnson, Paul Sheldon B.A., Carroll College	Sociology	*Madison*
Johnson, Royce E. B.S., University of Wisconsin	Electrical Engineering	*Madison*
Jones, Lealon Norvel B.A., Missouri State Teachers College	Speech	*Cape Girardeau, Mo.*
Jones, Paul George B.M.,University of Wisconsin	Music	*Black River Falls*
Jones, Roy Howell B.S., Lawrence College	History	*Madison*
Justice, Mary Fielding B.A., University of North Carolina	History	*Tampa, Fla.*
Kadescvitz, Charles B.A., University of Wisconsin	Commerce	*Madison*
Kailin, Harvey B.A., University of Wisconsin	Economics	*Madison*
Kantner, Claude Edgar B.A., Albion College	Speech	*Madison*
Karakiz, S. Michael M.S., University of Wisconsin	Highway Engineering	*Chicago, Ill.*
Kasten, Lloyd August William M.A., University of Wisconsin	Spanish	*Watertown*
Kay, Loren Lester LL.B., University of Wisconsin	Economics	*Milwaukee*
Keck, Esther Rutherford B.A., Adelphi College	English	*Brooklyn, N. Y.*
Keipper, Charles Homer M.S., Purdue University	Agricultural Bacteriology	*Madison*
Keith, George Mason B.A., University of Wisconsin	Economics	*Pardeeville*
Kellermann, Jacobus Hendrik M.S., University of Stellenbosch	Agricultural Chemistry	*Stellenbosch, S. Africa*
Kellogg, Ewart Ruth B.A., University of Wisconsin	History	*Saratoga Springs, N. Y.*
Kelly, Eunice E. se B.S., University of Wisconsin	Home Economics	*Mineral Point*
Kelly, Hobart M. B.S., University of Wisconsin	Pharmacology	*Madison*
Kendall, Elisabeth Rodd B.A., Tulane University	Romance Languages	*New Orleans, La.*
Kennedy, Lou M.A., Stanford University	Speech	*Eldora, Iowa*
Kepfer, John Raymond M.A., University of Wisconsin	Chemistry	*Madison*

Kershaw, James Robert B.S., Pennsylvania State College	Physics	*Silver Springs, N. Y.*
Kerth, Monroe Crawford se Graduate, United States Military Academy	Education	*Madison*
King, Alice Van Patten se B.A., University of Wisconsin	Vocational Guidance	*Madison*
King, George Brooks B.S., Kansas University	Chemistry	*Larned, Kans.*
King, Rolf Egmont Percival M.A., University of Rochester	German	*Rochester, N. Y.*
Kingery, William Ray M.A., Cornell University	Spanish	*Rossmoyne, Ohio*
Kinsey, Maurice Everett B.S., Oregon State Agricultural College	Chemistry	*Madison*
Kittel, Paula Margaretha M.A., Stanford University	German	*Madison*
Klett, Martha Ada M.A., University of Nebraska	German	*Madison*
Kline, Oral Lee B.S., University of Wisconsin	Agricultural Chemistry	*Madison*
Klingman, Herbert Frederick B.A., University of Wisconsin	History	*Watertown*
Klotsche, Johannes Martin M A., University of Nebraska	History	*Fremont, Nebr.*
Knapp, Edwin John Ph.B., University of Wisconsin	Physics	*Milwaukee*
Knechtges, Oswald John B.S., University of Wisconsin	Hydraulic Engineering	*Madison*
Knott, Elizabeth May B.S., University of Wisconsin	Home Economics	*Antigo*
Koch, Ferdinand Leonard Philip B.S., Stanford University	Medical Science m	*Wauwatosa*
Koch, Karl Lee M.S., University of Nebraska	Entomology and Plant Pathology	*Seward, Nebr.*
Koch, Lucien Graduate, Commonwealth College	Economics	*Cincinnati, Ohio*
Koelsch, C. Frederick B.S., University of Wisconsin	Chemistry	*Boise, Idaho*
Kohl, Edwin Jacob M.S., Purdue University	Plant Pathology	*West Lafayette, Ind.*
Kopp, George Adams B.S., Monmouth College	Speech	*Madison*
Kozelka, Frank Ludwig B.S., University of Wisconsin	Animal Husbandry	*Mishicot*
Krafft, E. T. Gertrude M.A., University of Washington	German	*Madison*
Kramer, Edward Noble B.S., University of Wisconsin	Physical Chemistry	*Oregon*
Kramer, Frank Raymond B.A., University of Wisconsin	Greek	*Madison*
Kramer, Mildred H. se B.A., University of Wisconsin	Vocational Guidance	*Madison*
Krause, Daniel Edward B.S., University of Wisconsin	Mining Engineering	*Wauwatosa*
Krezek, Kenneth Michael B.S., Iowa State College	Commerce	*Toledo, Ohio*
Kroeker, Edwin Henry B.S., Kansas State College	Chemistry	*Hutchinson, Kans.*
Krueger, Albert Charles M.A., University of Missouri	Chemistry	*Madison*
Krug, Julius A. B.A., University of Wisconsin	Economics	*Madison*

Kubiak, Henry Joseph B.S., Drexel Institute	Electrical Engineering *Philadelphia, Pa.*
Kubly, Harold Edward B.A., University of Wisconsin	Philosophy *Madison*
Kuehn, Laura Lou B. Ph.B., University of Wisconsin	English *Burnett*
Kuettel, Glen Marcellus B.A., Lawrence College	Chemistry *Neenah*
Kuhner, Clarence A. B.S., Ohio University	Geography *South Webster, Ohio*
Kullmann, Ethel Delia B.A., University of Wisconsin	Agricultural Bacteriology *Milwaukee*
Kundert, Palmer Rudolph B.A., University of Wisconsin	Medical Science m *Madison*
Kuney, Bernice D. M.A., University of Wisconsin	English *Madison*
Kuntz, William Abraham M.S., Pennsylvania State College	Plant Pathology *Mauch Chunk, Pa.*
LaMaster, Duane Earl se B.S., Knox College	Education *Madison*
Lamb, Gertrude Harley M.A., University of Wisconsin	*Madison*
Lamboley, Paul Bernard se B.S., University of Wisconsin	Education and Physical Education *Belleville*
Landsburg, Kenneth Gordon B.S., Michigan State College	Animal Husbandry *Deckerville, Mich.*
Lane, James Russell B.S., University of Illinois	Speech *La Crosse*
Larsen, Harold Daniel M.A., University of Michigan	Mathematics *Warren, Pa.*
Larson, Ludvig Conrad E.E., University of Minnesota	Electrical Engineering *Madison*
Larson, Russell H. Ph.B., Ripon College	Plant Pathology *Wausau*
Lathrop, Harry Owen M.S., University of Chicago	Geography *Madison*
Lathrop, Howard Roswell B.S., University of Wisconsin	Agronomy *Kewaunee*
Lathrope, Theodore R. se B.S., University of Wisconsin	Agricultural Economics *Wauzeka*
Lawless, Kathleen R. B.A., University of Wisconsin	French *Waukesha*
Lawson, Vera Shearer se B.M., University of Wisconsin	Education and Music *Madison*
Leahey, Alfred M.S., University of Alberta	Geology *Calgary, Alberta, Can.*
Lee, Hoon Koo M.S., Kansas State Agricultural College	Agricultural Economics *Suchun, Korea*
Lee, Hsue Heng B.A., Ohio Wesleyan University	Political Science *Sitiawan, Perak, F. M. S.*
Lee, Ralph Hugo B.A., University of Wisconsin	English *Tallahassee, Fla.*
Leith, Andrew M.A., University of Wisconsin	Geology *Madison*
Lennartz, Anna B.A., Willamette University	History *Gresham, Ore.*
Lenz, Arno Thomas B.S., University of Wisconsin	Hydraulic Engineering *Fond du Lac*
Leonard, Samuel Leeson M.S., University of Wisconsin	Zoology *Arlington, N. J.*
Leroux, Pearl se Ph.B., University of Wisconsin	Education *Sherry*

Leser, Elsa — German, — *Bloomington, Ind.*
B.A., Indiana University

Lester, Janie Lucile — English — *Eastman, Ga.*
B.A., Spelman College

Levegue, Ondie Camille — Romance Languages — *Rockford, Ill.*
Graduate, Faculte de Droit de Paris

Lewis, John Donald — Political Science — *Kingston, Pa.*
M.A., University of Wisconsin

Li, Teh-Ying — Economics — *Chekiang, China*
B.S., National Southeastern University

Linck, Orville F. — English — *Detroit, Mich.*
M.A., University of Wisconsin

Little, Orrel E. — English — *Wabash, Ind.*
B.A., Indiana University

Livingston, Luzern Gould — Botany — *Randolph*
B.A., Lawrence College

Long, Theodore Stanley — Speech — *Park Rapids, Minn.*
B.A., Carlton College

Love, Marie Marguerite — English — *Madison*
B.S., South Dakota Eastern State Teachers College

Love, Ruth O. — Medical Science — *Madison*
B.A., University of Wisconsin

Lowes, Helen Hall se — Physical Education — *Chicago, Ill.*
MA., University of Chicago

Lowney, Robert Edward — Mathematics — *Madison*
M.A., Michigan State College

Lozar, Raymond Walter — Economics — *Springfield, Mo.*
B.A., Southwest Missouri State Teachers College

Ludes, George Michael — Medical Science m — *Chicago, Ill.*
B.S., De Paul University

Lund, Curtis Joseph — Zoology — *LaSita, Kans.*
B.S., Kansas State Agricultural College

Lynn, Edith Elizabeth — Physics — *Clinton, S. C.*
B.A., Agnes Scott College

Lyon, Vergil Eugene se — Education — *DeKalb, Ill.*
B.E., Northern Illinois State Teachers College

Lyons, John Jacob — English — *San Francisco, Cal.*
M.A., University of California

McAnear, Beverly — History — *Sacramento, Cal.*
B.A., Stanford University

McCarthy, Mary Bernice — English — *Eden*
M.A., University of Wisconsin

McCartney, Garnet Chester — Geology — *Stonewall, Man., Can.*
M.S., University of Manitoba

McCarty, Harold Berkley — Speech — *Bloomington, Ill.*
B.S., University of Illinois

McCleary, John William — History — *Baltimore, Md.*
B.A., Johns Hopkins University

McCordic, Almer Sheridan — Agricultural Economics — *Madison*
B.A.,University of Wisconsin

McDonald, Thomas — History — *Madison*
B.A., Livingstone College

McGaffey, Laura Belle — History — *McPherson, Kans.*
M.A., University of Kansas

McGovern, John Neilson — Chemical Engineering — *Milwaukee*
B.S., University of Wisconsin

MacGregor, James John — Economics — *Glasgow, Scotland*
B.S., Glasgow University

McGuire, Kathryn Elizabeth se — French — *Berwyn, Ill.*
B.A., University of Wisconsin

MacInnis, Myra Lawrence — History — *Milwaukee*
B.A., Lawrence College

McKinsey, John Paul M.A., University of Missouri	Sociology *Joplin, Mo.*
McKitrick, Kathleen Anne B.M., Northwestern University	Music *Elgin, Ill.*
McLaughlin, Willard Thomas M.A., Dartmouth College	Botany *Helena, Mont.*
MacMillin, Frederick Nelson M.A., University of Wisconsin	Political Science *Milwaukee*
McNorris, Henry Marion B.E., University of Cincinnati	English *Tuskegee, Ala.*
McMullen, Katherine Way M.A., Northwestern University	English *Evanston, Ill.*
McMurray, Robert Laughlin B.S., Ohio State University	Pharmacy *Toronto, Ohio*
McNair, James Stuart M.S., University of Chicago	Mathematics *Winnebago, Ill.*
McWilliams, Thelma Loretta M.S., University of Wisconsin	Botany *West Lafayette, Ind.*
Ma, Chong Han B.A., Great China University	Political Science *Swatow, China*
Mackay, Scott M.S., University of Wisconsin	Metallurgy *Madison*
Mackin, John Christopher M.A., University of Wisconsin	Chemistry *Madison*
Maddox, James Gray B.S., University of Arkansas	Agricultural Economics *Rison, Arks.*
Madson, Willard Hegland M.S., University of Wisconsin	Chemistry *Canton, Minn.*
Magaro, Nicholas A. B.A., University of Wisconsin	Romance Languages *Kenosha*
Magie, Robert Ogden B.S., Rutgers University	Plant Pathology *Grand Island, Fla.*
Mahan, Ernest M.A., Indiana University	History *West Baden, Ind.*
Mahoney, Florence Iris B.S., University of Wisconsin	Medical Science m *East Cleveland, Ohio*
Mahony, Kenneth L. Ph.B., University of Wisconsin	Botany *Mazomanie*
Malcolm, Myrna A. B.S., University of Wisconsin	Home Economics *Madison*
Malec, Ethel se B.A., University of Wisconsin	Education *Madison*
Maloney, Arnold Hamilton M.D., Indiana University	Pharmacology *Indianapolis, Ind.*
Mannis, Harry B.S., University of Wisconsin	Medical Science m *Stevens Point*
Marchand, Ernest L. M.A., University of Washington	English *Madison*
Maresh, Frank B.S., University of Wisconsin	Physiological Chemistry m *Carrollville*
Marick, Louis M.S., University of Washington	Physics *Butte, Mont.*
Marquis, Ralph William l M.A., University of Wisconsin	Economics *Bellingham, Wash.*
Marshall, Lucie B.A., University of Wisconsin	Sociology *Green Bay*
Martin, Steven John M.A., University of Wisconsin	Zoology and Physiology *Linden, N. J.*
Marvin, George Eugene M.S., University of Wisconsin	Economic Entomology and Agricultural Bacteriology *West Allis*
Matsen, Helene B.S., University of Wisconsin	Medical Bacteriology *Oregon*

Maxson, Dorothy May B.A., Milton College	English	*Milton*
Mayer, Perry Ellsworth B.S., Oregon State College	Organic Chemistry	*Madison*
Mayor, John Roberts M.A., University of Illinois	Mathematics	*LaHarpe, Ill.*
Mehrlich, Ferdinand P. B.A., Butler University	Botany	*Evanston, Ill.*
Meier, Gretchen se B.A., Mills College	Education	*Woodland, Cal.*
Mercier, Germaine E. M.A., University of Washington	Romance Languages	*Madison*
Merriam, Leslie J. B.S., University of Wisconsin	Economics	*Madison*
Mettenet, Jeanne M.A., University of Wisconsin	French	*Madison*
Meyer, Adeline J. LL.B., University of Wisconsin	Economics	*Madison*
Meyer, Margaret Hinkel se M.S., Wellesley College	Education	*Madison*
Meyer, Roland Kenneth M.A., University of Wisconsin	Zoology	*Madison*
Meyers, George Edwin B.Ed., Milwaukee State Teachers College	History	*Merrill*
Michelson, Michalina B.A., New Jersey College for Women	Economics	*Boundbrook, N. J.*
Midelfart, Ingeborg Marie B.A., Saint Olafs College	Nursing	*Eau Claire*
Miles, Ward Ray M.S., Ottawa University	Rural Sociology	*Madison*
Miller, Earl Roy B.A., University of Wisconsin	Physics	*Milwaukee*
Miller, Earl se M.A., University of Wisocnsin	Education	*Cory, Ind.*
Miller, John Lester B.A., Penn College	Economics	*Madison*
Miller, Ronald E. B.A., University of Montana	Journalism	*Butte, Mont.*
Millhouse, George Jr. Ph.B., University of Chicago	English	*Galena, Ill.*
Millhouse, Louise Elizabeth M.S., University of Illinois	Home Economics	*Galena, Ill.*
Milligan, Edward Elgin B.A., University of Saskatchewan	Romance Languages	*Madison*
Moffett, Virginia W. B.A., Monmouth College	History	*Clayton, Ill.*
Mohr, Harvey William B.S., University of Wisconsin	Hydraulic Engineering	*Milwaukee*
Montgomery, Anne Louise B.Litt., Grove City College	Romance Languages	*Grove City, Pa.*
Moody, Richard Eric B.S., Rutgers University	Economics	*Millington, N. J.*
de Mora, Manuela Grad., University of Barcelona, Spain	Romance Languages	*Huelva, Spain*
de Mora, Frinidad Grad., University of Barcelona, Spain	Romance Languages	*Huelva, Spain*
Morgan, Edward J. D. B.E., Milwaukee State Teachers College	History	*Milwaukee*
Morgan, Ellsworth Andrews M.A., University of Wisconsin	German	*Madison*
Morris, Lloyd Wallace M.A., University of Wisconsin	Physics	*Appleton*

Morrison, Joe E. M.S., University of Wisconsin	Zoology	*Springfield, Ill.*
Moser, Venice Glenn B.S., Purdue University	Horticulture	*Cloverdale, Ind.*
Mott, Margaret Burling M.A., University of Wisconsin	Romance Languages	*Pittsburgh, Pa.*
Muehlenschlader, Helen Ph.B., University of Wisconsin	English	*Milwaukee*
Mueller, Bertha M.A., University of Wisconsin	German	*Milwaukee*
Mullen, Iva M. M.S., Iowa State Agricultural College	Home Economics	*Labette Kans.*
Munson, Bernice M. se B.A., University of Wisconsin	Education	*Louden*
Murphy, Marion Fisher B.A., University of Wisconsin	Geography	*Madison*
Murphy, Raymond Edward M.S., University of Wisocnsin	Geography	*Madison*
Murphy, Robert Brady L. 1 B.A., University of Wisconsin	History	*Madison*
Murray, Merrill Garver Ph.M., University of Wisconsin	Economics	*Madison*
Mygdal, Elna se B.S., University of Wisconsin	Physical Education	*Chicago, Ill.*
Nafziger, Ralph Otto B.A., University of Wisconsin	Journalism	*Madison*
Napoli, Anton M.A., University of Wisconsin	Romance Languages	*Milwaukee*
Nast, Charlotte Georgia M.A., University of Wisconsin	Botany	*Madison*
Natenshon, Adolph Lee B.A., University of Wisconsin	Medical Science m	*La Crosse*
Naujoks, Herbert Hugh M.A., University of Wisconsin	Political Science	*Madison*
Neal, Ann M.A., University of Wisconsin	English	*Madison*
Neal, Norman P. M.S., University of Wisconsin	Genetics	*Seddon, New Zealand*
Neale, Edward M.A., University of Wisconsin	Spanish	*Curico, Chile S. A.*
Nelsen, Howard E. B.S., Hastings College	Physics	*St. Paul, Nebraska*
Nelson, August B.S., University of Wisconsin	Soils	*Madison*
Nelson, Harold Aloysius B.S., De Paul University	Medical Science m	*Chicago, Ill.*
Nelson, Oran Milton B.S., University of Wisconsin	Animal Husbandry	*Corvallis, Ore.*
Nevins Beatrice Irene Ph.M., University of Wisconsin	Botany	*Oshkosh*
Newman, Florence Ellen B.A., University of Wisconsin	History	*Juda*
Newsome, Verna Louise M.A., University of Wisconsin	English	*Madison*
Nicolai, Martha M.A., University of Wisconsin	German	*Madison*
Nicolls, Mary M. B.A., University of Wisconsin	Sociology	*Wausau*
Noon, Estelle Chapins B.A., Cornell University	English	*Hempstead, N. Y.*
North, Gerald Charles M.S., University of Wisconsin	Dairy Husbandry	*El Paso, Ill.*

North, Mack O. B.S., University of Illinois	Genetics	*El Paso, Ill.*
Nunn, Mary M.A., University of Wisconsin	English	*Milwaukee*
Ogden, William Butler B.S., University of Wisconsin	Plant Pathology	*Madison*
Olson, Kenneth E. M.A., University of Wisconsin	Political Science	*Madison*
Oncley, John Lawrence B.A. Southwestern College	Chemistry	*Winfield, Kans.*
Onsgard, Leonard Melvin B.A., St. Olaf College	Physics	*Madison*
Orr, Douglass Winnett B.A., Swarthmore College	Philosophy	*Lincoln, Nebr.*
Orton, Oliver S. B.S., University of Vermont	Botany	*St. Albans, Vt.*
Osborn, Earl B. B.S., University of Wisconsin	Veterinary Science	*Madison*
Osborne, Kenneth Bond B.S., Wheaton College	Chemistry	*Wheaton, Ill.*
Osterberg, Harold B.A., University of Wisconsin	Physics	*Cambridge*
Ostrander, Allen Roys B.A., Hamilton University	Geology	*Madison*
Ostrander Forest Egbert B.Ag., Washington State College	Animal Husbandry	*Tempe, Ariz.*
Otis, Grant Lyman Ph.B., University of Wisconsin	Medical Science	*Madison*
Owen, Edgar Lyle M.A., University of Wisconsin	Economics	*Branson, Mo.*
Ozer, Sol David M.A., Ohio State University	Sociology	*Youngstown, Ohio*
Page Martha Austine se B.A., University of Wisconsin	Music	*Madison*
Palmiter, DeForest Harold M.S., University of Wisconsin	Plant Pathology	*Hood River, Ore.*
Park, Wilbur G. B.A., Cumberland University	Political Science	*Jacksonville, Tex.*
Parker, Keith L. BA., Carroll College	Economics	*Rio*
Parker, Rose Etoile se M.A., University of Chicago	Education	*Madison*
Parler, Mary Celestia M.A., University of Wisconsin	English	*Wedgefield, S. C.*
Parrette, Frances se B.S., University of Tennessee	Physical Education	*Knoxville, Tenn.*
Patel, Maganbhai Dahyabhai M.S. Cornell University	Genetics	*Sojibra, India*
Patey, Phillippa Charles B.A., University of Wisconsin	Comparative Literature,	*Newtonville, Mass.*
Patterson, Helen M. M.A., University of Wisconsin	Journalism	*Madison*
Patterson, Margaret M. B.A., University of Wisconsin	English	*Bloomington*
Patton, Stella T. M.S., University of Wisconsin	Home Economics	*Madison*
Paul, Benson Howard M.F., Cornell University	Chemistry of Forest Products	*Madison*
Paulson, Janette B.A., University of Wisconsin	Nursing	*Mount Horeb*
Payne, Wilfred M.S., University of Wisconsin	Philosophy	*Madison*

Peirce, Sheldon James B.A., De Pauw University	Physics	*Losantville, Ind.*
Peng, Chien M.S., University of Wisconsin	Soils	*Peking China*
Pentland, Arthur Gerald M.A., Toronto University	Geology	*Anglia, Sask., Can.*
Perry, Lillian B.A., Friends University	Comparative Literature	*Emporia, Kans.*
Peterson, Florence B.A. Ohio Wesleyan University	Economics	*Madison*
Peterson, James Howard M.S., University of Wisconsin	Chemistry	*Osseo*
Peterson, James Marvin M.A., University of Wisconsin	Economics	*Madison*
Peterson, Le Roy se B.A., Hastings College	Education	*Munden, Kans.*
Pfeiffer, George Joseph M.S., University of Wisconsin	Chemistry	*Madison*
Phillips, Paul H. B.S., State College of Washington	Animal Husbandry	*Madison*
Poindexter, Dorothy Paulina M.A., University of Wisconsin	English	*Indianapolis, Ind.*
Polk, Forrest Raymond B.S., Purdue University	Geography	*Madison*
Popandoponlo, Vladimir Nicholas B.S., Robert College, Constantinople	Agricultural Engineering	*Constantinople, Turkey*
Pope, Margaret Isabel M.A., University of Wisconsin	English	*Pewaukee*
Potter, Mary A. se B.A., Lawrence College	Education	*Lake Mills*
Pomainville, Elizabeth C. se B.A., University of Wisconsin	Zoology	*Wisconsin Rapids*
Powell Harley John se B.A., University of Iowa	Education	*Coloma*
Powell, John Walker B.A., University of Wisconsin	Philosophy	*Madison*
Praxl, Hannah E. se B.S., University of Wisconsin	Physical Education	*Chicago, Ill.*
Price, Warren Charles B.A., University of Wisconsin	Sociology	*Milwaukee*
Prickett, Frances Virginia B.A., Marshall College	Latin	*Huntington, W. Va.*
Prill, Edward Albert B.A., Ripon College	Chemistry	*Madison*
Pritzl, Peter Philip B.A., St. Norbert College	Chemistry	*West DePere*
Prucha, Rudolph William B.Ed., River Falls State Teachers College	Physics	*Mishicot*
Puelicher Lucile Marie B.S., University of Wisconsin	Applied Arts	*Madison*
Puls, Marie Ursula M.A., Columbia University	German	*Madison*
Purcell, Margaret R. B.A., University of Wisconsin	Economics	*Madison*
Quimby, Oscar Taylor B.S., Montana State College	Chemistry of Forest Products	*Madison*
Raasch, Gilbert Oscar B.A., University of Wisconsin	Geology	*Madison*
Ragatz, Eugene Charles B.S. University of Wisconsin	Chemical Engineering	*Potosi*
Ralya, Lynn Louis se B.S., Michigan State College	Education	*Beloit*

Ramsay, Hazel Grace M.A., University of Wisconsin	Ancient History	*Baltimore, Md.*
Rand, Vivian Monk M.A., University of North Carolina	English	*Madison*
Rand, Wendell Phillips M.S., University of Wisconsin	Geology	*Bear Creek*
Rankin, Ruth E. B.A., Carroll College	History	*Pewaukee*
Rasmussen, Carrie B.A., University of Wisconsin	Speech	*Madison*
Rawles, William Post M.A., Indiana University	Geology	*Bloomington, Ind.*
Ray, Lawrence Peers B.S. Beloit College	Agricultural Chemistry	*Rockford, Ill.*
Ray, Wilbert Scott M.A., University of Wisconsin	Psychology	*Madison*
Rechard, Ottis Howard M.A., Gettysburg College	Mathematics	*Laramie, Wyo.*
Rector, E. Stanley l M.S., University of Wisconsin	Economics	*Glenwood, Mo.*
Reeder, Ethel Genevieve BA., University of Wisconsin	Latin	*Madison*
Rees, Olive Lucile B.A., Washburn College	Botany	*Topeka, Kans.*
Reiman, Gustav H. M.S., University of Wisconsin	Genetics	*Madison*
Reiter, Alfred A M.S. University of Minnesota	Chemical Engineering	*Madison*
Reitz, Wilhelm se B.A., Pedagogical Academy, Euskirchen, Germany	Education	*Köln, Germany*
Renk, Alice Veronica B.A., University of Wisconsin	Zoology	*Madison*
Renne, Roland Roger M.S. University of Wisconsin	Agricultural Economics	*Bridgeton, N. J.*
Rich, Corydon Lawrence se B.E., Oshkosh State Teachers College	Physics	*Winneconne*
Richards, Inez Jennette MA., University of Wisconsin	English	*Ladysmith*
Richards, Leona A. B.A., University of Wisconsin	Economics	*Madison*
Rickett, Helen Margaret MA., University of Wisconsin	English	*Madison*
Riebeth, Theodore J. B.M.E., Marquette University	Metallurgy	*Milwaukee*
Riising, Blanche Marye B.S., University of Wisconsin	Agricultural Chemistry	*Madison*
Rimsky-Korsakoff, Vladimir Nicholas M.S., University of Wisconsin	Zoology	*Madison*
Risty, Karl Thorsten M.S., Kansas Agricultural College	Genetics	*Corson, S. Dak.*
Roberts, M. Gertrude se B.A., Hood College	Education	*Altoona, Pa.*
Roche, Benjamin Hamilton M.S., University of Wisconsin	Animal Husbandry	*Madison*
Rodolfo, Agustin M.S., University of Wisconsin	Genetics and Veterinary Science	*San Antonio, Zambales, P. I.*
Rogers, Elise R. B.A., University of Wisconsin	Sociology	*Madison*
Rollefson, Ragnar M.A., University of Wisconsin	Physics	*Superior*
Rosenberg, Ralph Philip M.A., University of Wisconsin	German	*New York, N. Y.*

Rosenhauer George Karl se B.A., Northwestern University	Education and Physical Education	*Burlington*
Rossi, Joseph M.A, Columbia University	Italian	*Madison*
Rouse, Theodore Alton M.A., University of Wisconsin	Physics	*New Hampton, Iowa*
Rowlee, Silence M.A., Cornell University	Botany	*Elmira, N. Y.*
Rudisill, Mabel Florence se M.A., University of Wisconsin	Education	*Crouse, N. C.*
Ruf, Harold William B.S., University of Wisconsin	Civil Engineering	*Green Bay*
Rupel, I. Walker M.S., University of Wisconsin	Animal Husbandry	*Madison*
Rusch, Harry Arthur se B.S., University of Wisconsin	Physical Education	*Merrill*
Rushfeldt, Helen D. M.A. Columbia University	English	*Hawley, Minn.*
Ruth, Elbert Bresee M.A., University of Wisconsin	Zoology	*Madison*
Rutledge, Jessie H. B.A., University of Wisconsin	Speech	*Sparta*
Ryan, Winefred B.M., University of Wisconsin	Music	*Madison*
Sagen, Harry Edvin M.S., University of Wisconsin	Agricultural Bacteriology	*Washburn*
Salter Jennie May se Ph.M., University of Wisconsin	English	*Unity*
Saltus, Charles N. Ph.D., University of Wisconsin	English	*Madison*
Samson, Carrie Margaret B.S., Simpson College	Home Economics	*Indianola, Iowa*
Samuelson, Emil Emanuel se B.A., Milton College	Education	*Port Wing*
Sands, Mary Kathleen M.A., University of Wisconsin	Speech	*Las Vegas, N. Mex.*
Sappington, Newton Owen M.A., University of North Carolina	History	*Barnesville, Ga.*
Saxton, Daniel Edmund B.A., Valley City State Teachers College	Journalism	*Ellsworth*
Sayre, H. Melville M.A. Ohio State University	English	*Madison*
Schaars, Marvin Arnold M.S., University of Wisconsin	Agricultural Economics	*Madison*
Schaefer, Roland Benjamin B.A., Mission House College	English	*Milwaukee*
Schantz, B. T. B.A., Gettysburg College	English	*Gettysburg, Pa.*
Scheil, Merrill A. B.S., University of Wisconsin	Mining and Metallurgy	*Milwaukee*
Schlueter, Rudolph John M.A., University of Wisconsin	German	*Madison*
Schmidt, Lola B.S., Battle Creek College	Agricultural Chemistry	*New Holstein*
Schmidt, Sophie se M.A., University of Wisconsin	English	*Madison*
Schneberger Edward M.S., Kansas State Agricultural College	Zoology	*Cuba, Kans.*
Schneider, Josephine May M.A., University of South Carolina	Music	*Madison*

Schoeffel, Eugene Wilhelm Graduate, University of Munich and Hohen Geiss	Agricultural Chemistry	*Stuttgart, Germany*
Schrader, Glenn Allen M.S., Beloit College	Agricultural Chemistry	*Madison*
Schreiber, Theodore M.A., University of Wisconsin	German	*Madison*
Schwantes Arthur John B.S., University of Minnesota	Agricultural Engineering	*St. Paul, Minn.*
Schwenger, Robert Bee B.A., University of Wisconsin	Economics	*Milwaukee*
Schwilring, William Everett B.S., Marquette University	Mechanical Engineering	*Milwaukee*
Schwingel, Christian Henry M.S., University of Wisconsin	Chemistry	*Madison*
Searls, Edward M. M.S., University of Wisconsin	Entomology	*Madison*
Seborg, Clarence Oliver B.Chem., Montana State College	Chemistry	*Madison*
Seborg, Raymond Marcus B.S., Montana State University	Chemistry of Forest Products	*Madison*
Seidl, Margaret Louise B.A., University of Wisconsin	English	*Madison*
Sellars, Kathryn Lousie B.E., Eastern Illinois State Teachers College	Speech	*Charleston, Ill.*
Semb, Joseph B.S., University of Wisconsin	Chemistry	*Madison*
Setterquist, Theodore Ferdinand B.A., Carleton College	Chemistry	*Duluth, Minn.*
Shafer, Emily Marine B.A., DePauw University	English	*Madison*
Shafer, Joseph Ernest M.A., University of Wisconsin	Economics	*Madison*
Shands, Hazel Lee B.S., Clemson College	Agronomy and Plant Pathology	*Florence, S. C.*
Shands, Ruebush George Ph.D., University of Wisconsin	Plant Pathology	*Florence, S. C.*
Shapiro, Herman Harvey B.A., University of Wisconsin	Medical Science m	*Madison*
Sharp, Marie L. B. M.A., University of Wisconsin	History	*Madison*
Sharp, Richard Lauriston B.A., University of Wisconsin	Anthropology	*Madison*
Shaw, Reginald Mathison B.A., University of Wisconsin	Geography	*Superior*
Shear, Edwin Welland B.A., Ripon College	History	*Hillsboro*
Sherwood, Thomas Cecil M.A., University of Wisconsin	Zoology m	*Madison*
Shorr, Philip M.A., Columbia University	History	*Brooklyn, N. Y.*
Silcox, W. Bruce M.S., Iowa State College	Agricultural Economics	*Madison*
Silveus, Marian M.A., University of Wisconsin	History	*Pittsburgh, Pa.*
Simmonds, Forrest A. B.S., State University of Iowa	Chemistry	*Madison*
Sinaiko, Clara Frances B.A., University of Wisconsin	Journalism	*Madison*
Singleton, Abraham Green B.S., Alabama Polytechnic Institute	Mining Engineering	*Wauwatosa*

Singleton, Mack Hendricks M.A., University of Kansas	Romance Languages	*Enid, Okla.*
Sister Mary Cyrilla Gill B.A., Saint Clara College	English	*Sinsinawa*
Sister M. Loretto Ketter B.S., Marquette University	Home Economics	*Milwaukee*
Sister M. Leona Ringling B.S., Marquette University	Medical Science	*Milwaukee*
Skewes, George Jessop se B.A., Lawrence College	Education	*Madison*
Skinner, John Taylor M.S., University of Wisconsin	Agricultural Chemistry	*Bowling Green, Ky.*
Skinner, Margaret Meron M.A., University of Wisconsin	English	*Madison*
Slagg, Rodney Arthur M.S., University of Wisconsin	Botany	*Fort Atkinson*
Sloat, Chester H. B.A., Middlebury College	English	*Bennington, Vt.*
Small, Virginia B.A., Butler University	Zoology	*Indianapolis, Ind.*
Smith, Albert Lorenzo M.S., Arkansas University	Plant Pathology	*Borgor, Tex.*
Smith, Cornelius Walter M.A., University of Wisconsin	History	*Madison*
Smith, Dorothy Gertrude B.A., University of Wisconsin	Physics	*Madison*
Smith, Emmett James B.A., La Crosse State Teachers College	History	*LaCrosse*
Snell, John Morphy B.S., McGill University	Chemistry	*Ste. Anne de Bellevue, Que., Can.*
Snieszko, Stanislaw Ph.D., University of Cracow, Poland	Bacteriology	*Cracow, Poland*
Snyder, Newell B.A., Beloit College	English	*Perrysburg, Ohio*
Snyder, William Cowperthwaite B.S., University of California	Plant Pathology	*Berkeley, Cal.*
Sokolinkoff, Ivan Stephen E.E., University of Idaho	Mathematics	*Madison*
Solgate, Dorothy Elizabeth B.A., Northland College	English Language and Literature	*Ashland*
Sorum, C. Harvey Ph.D., University of Wisconsin	Chemistry	*Lanesboro, Minn.*
Soule, Hattie E. W. B.A., University of Minnesota	Medical Science	*Madison*
Spanenberg, Anna Regina B.A., Albion College	French	*Rockford, Mich.*
Sparling, William James B.S., Michigan State College	Mining and Metallurgy	*Milwaukee*
Spevacek, Alvin Harold B.A., University of Wisconsin	Economics	*Green Bay*
Spicer, Miriam Russell B.A., Kansas University	Agricultural Bacteriology	*Lawrence, Kans.*
Spohn, Frances A. se B.S., University of Wisconsin	Education	*Madison*
Sprinkle, Marshall Roseboro M.A., Wake Forest College	Chemistry	*Mountain Park, N. C.*
Sproull, Wayne Treber M.S., Lehigh University	Physics	*Akron, Ohio*
Sromovsky, Robert Albert M.A., University of Wisconsin	Mathematics	*West DePere*
Staats, J. Riley B.Ed., Illinois State Normal University	Geography	*Sumner, Ill.*

Stacy, Delbert Norman se Ph.B., Carroll College	Physical Education	*Waukesha*
Stagner, Ross B.A., Washington University	Psychology	*Dallas, Tex.*
Staley, Ruth M.A., Wittenberg College	German	*Madison*
Standen, John B.S., Beloit College	Chemistry	*Eau Claire*
Stark, Marian Esther B.A., Smith College	Physiological Chemistry	*Madison*
Staten, Zeline Huguelet B.A., University of Washington	Applied Arts	*Madison*
Staud, Kathryne Ann se B.S., University of Wisconsin	Home Economics	*Rochester, N. Y.*
Staudenmayer, Maude I. se B.S., Beloit College	Education	*Portage*
Steele, Eleanor Alice M.A., University of Wisconsin	Medical Science m	*Madison*
Stegar, James Long B.A., Georgetown College	English	*Princeton, Ky.*
Stehn, John Richard B.A., University of Wisconsin	Physics	*Milwaukee*
Steiner, John Franklin B.S., University of Wisconsin	Chemistry	*Madison*
Stephenson, Ronald George B.S., University of Wisconsin	Mining Engineering	*Medford*
Sterrett, James Reid, Jr. M.A., University of Wisconsin	Speech	*Lebanon, Ky.*
Stiles, Isabel Elizabeth B.S., North Texas State Teachers College	Biology	*Annona, Tex.*
Stine, Tom Young Ph.M., University of Wisconsin	Sociology	*Reedsburg*
Stoddard, Neal H. se Ph.B., University of Wisconsin	Education	*Madison*
Stogdale, Eugenia Belle B.A., William Jewell College	Sociology	*Liberty, Mo.*
Stone, Berenice Irene B.S., University of Wisconsin	Medical Science	*Madison*
Stone, Webster Hall se B.S., University of Minnesota	Education	*West Allis*
Stoughton, Arthur Tracy M.A., University of Michigan	History	*Grand Rapids, Mich.*
Stout, Cyril L. B.S., Knox College	Geography	*Stronghurst, Ill.*
Strain, Warren Thoburn B.A., Indiana State Normal School	Geography	*Fort Wayne, Ind.*
Strange, Charles Roy D.V.M., Colorado Agricultural College	Veterinary Science	*Castle Rock, Colo.*
Stratman-Thomas, Margaret Helene B.M., University of Wisconsin	Music	*Dodgeville*
Strauss, Dorothy Minetta se B.S., University of Wisconsin	Applied Arts	*Madison*
Strawbridge, Richard David B.A., Beloit College	Philosophy	*River Forest, Ill.*
Strong, Frank M. M.A., Syracuse University	Chemistry	*Brewerton, N. Y.*
Strossenreuther, Ovid B. l B.A., Lawrence College	Law	*Sugar Bush*
Struble, George Goodell M.S., University of Kansas	English	*Glasco, Kans.*
Studebaker, Frances Priscilla B.A., DePauw University	Home Economics	*South Bend, Ind.*

Suits, Chauncey Guy D.S., Technische Hochschule, Zurich	Physics	*Medford*
Sullivan, John Michael B.A., Lawrence College	French	*Duluth, Minn.*
Sumner, Charles B. M.S., University of Wisconsin	Plant Pathology	*Talladega, Ala.*
Sumner, William Allison B.S., Kansas State Agricultural College	Argicultural Journalism	*Madison*
Svec, Marie Melvina B.A., University of Wisconsin	Geography	*Cedar Rapids, Iowa*
Swanner, Roy Osley M.S., University of Wisconsin	Dairy Husbandry	*Luverne, Ala.*
Swartz, Clare B.A., Wellesley College	English	*Hazleton, Pa.*
Sykes, Margaret Schermerhorn B.A., University of Wisconsin	Applied Arts	*Madison*
Sylvester, Beatrice Garnet se B.S., University of Wisconsin	Education	*Madison*
Taylor, Carl M.A., University of Oklahoma	Speech	*Tulsa, Okla.*
Taylor, Katharine se B.A., Baker University	Physical Education	*Pittsburg, Kans.*
Taylor, Mary Carolyn se B.A., Milton College	Education	*Avalon*
Teckemeyer, Evelyn Mattingly B.A., University of Wisconsin	English	*Madison*
Terrill, Jennette N. Ph.M., University of Wisconsin	Chemistry	*Canton, Ill.*
Tetreau, Elzer DesJardins M.A., University of Wisconsin	Agricultural Economics	*Delaware, Ohio*
Thaver, Marion Henrietta B.A., University of Wisconsin	Agricultural Bacteriology	*Watertown*
Thayer, Harry Coulter se Ph.B., University of Chicago	Education	*Madison*
Thexton, Richard Henry B.S., University of Manitoba	Agricultural Bacteriology	*Selkirk, Man., Can.*
Thibadeau, Ada Montalbeth B.A., University of Montana	Spanish	*Missouli, Mont.*
Thileen, Katherine Marian se B.S., University of Iowa	Physical Education	*Grundy Center, Iowa*
Thomas, Macklin Casey M.A., Syracuse University	English	*Madison*
Thomas, Ralph W. M.S., University of Wisconsin	Chemistry	*Sherry*
Thompson, Ada Isobel se B.E., Winona Teachers College	English	*La Crosse*
Thompson, Victor Emanuel se Ph.M., University of Wisconsin	Education	*Stevens Point*
Thompson, John Carl B.S., Pennsylvania State College	Agricultural Economics	*Lewistown, Pa.*
Thompson, Wenzel Slack B.S., University of Wisconsin	Chemistry	*Madison*
Thomsen, Soren Milton B.Ed., Milwaukee State Teachers College	Chemistry	*Milwaukee*
Thomson, Catharine Elspeth B.A., Carroll College	English	*Richland Center*
Thomson, James Edgar M.A., University of Toronto	Geology	*Hensall, Ont., Can.*
Titus, Leslie B.A., San Jose State College	Chemistry	*Reedley, Cal.*
Tonogbanna, Francisco Ghofulpo B.S.E., Philippine Islands	English	*Binalbagan, Occ. Negres, P. I.*

Torbet, Virginia B.A., Evansville College	Chemistry	*Evansville, Ind.*
Torgerson, Theodore se Ph.M., University of Wisconsin	Education	*Madison*
Tormey, Kathryn Marie se B.A., University of Wisconsin	Sociology	*Madison*
Towers, Lewis McLeish B.S., University of Wisconsin	Soils	*Portage*
Tranmal, Henry B.S., University of Wisconsin	Agricultural Bacteriology	*Washburn*
Treille, Marguerite H. M. Ph.D., University of Wisconsin	French	*Madison*
Trenholme, Arthur Kingsley B.A., Reed College	History	*Portland, Ore.*
Tressler, Willis Lattanner M.A., University of Wisconsin	Zoology	*Madison*
Trayer, Howard W. M.A., University of Wisconsin	English	*La Grange, Ind.*
Troemel, Gertrude Frances se B.S., University of Wisconsin	Applied Arts	*Madison*
Trost, Harold G. B.A., Baldwin Wallace	Speech	*Columbus*
Trump, Paul L. M.S., University of Iowa	Mathematics	*Polo, Ill.*
Tsai, Deane Shergene B.A., University of Wisconsin	Economics	*Soochow, China*
Tufts, Kathrin Marie M.A., University of Wisconsin	Spanish	*Eau Claire*
Turabian, Phone G. B.S.C., Robert College	Economics	*Baghdad, Irag.*
Turcot, Joseph Conrad B.S.A., Montreal University	Agronomy	*Montreal, Que., Can.*
Turner, Forrest Haven B.S., University of Wisconsin	Agricultural Economics	*Madison*
Tuttle, Alva Maurice M.S., University of Iowa	Mathematics	*Madison*
Tuttle, Max B.S., University of Wisconsin	Chemistry	*Balsam Lake*
Tyler, Stanley Allen B.A., University of Wisconsin	Geology	*Jefferson*
Uhl, Arthur Hoyt M.S., University of Wisconsin	Pharmacy	*Madison*
Vacquier, Victor Victor M.A., University of Wisconsin	Physics	*Madison*
Vance, Amos Milton M.A., University of Nebraska	Economics	*Lincoln, Nebr.*
Van Horn, Willis Martin B.A., Milton College	Zoology	*Madison*
Van Lone, Eldyn Everett M.S., University of Wisconsin	Genetics	*Jefferson*
Van Soelen, Eugene Cecil se B.S., University of Stellenbosch	Education	*Ladybrand, O. F. S., S. Africa*
Van Tassel, Richard Julian Ph.M., University of Wisconsin	Psychology	*Whitehall*
Vass, John Isaac M.A., Northwestern University	Mathematics	*Madison*
Vedeler, Harold Clous B.A., University of Iowa	History	*Clear Lake, Iowa*
Verduin, Arnold Robert B.A., University of Michigan	European History	*Grand Haven, Mich.*
Verhoek, Frank Henry B.S., Harvard University	Chemistry	*Grand Rapids, Mich.*

Vernon, Elvin Leonidas B.S., Oregon State College	Physical Chemistry	*Madison*
Vigfusson, Valdimar Alfred M.A., University of Saskatchewan	Chemistry	*Tantallon, Sask., Can.*
Vivas, Eliseo B.A., University of Wisconsin	Philosophy	*Madison*
Vlasnik, Mollie P. B.A., Wayne State Teachers College	Botany	*Niobrara, Nebr.*
Voskuil, Louis Frederick B.A., Calvin College	Philosophy	*Baldwin*
Wade, Bryan Lewellyn M.S., West Virginia University	Genetics	*Smithfield, W. Va.*
Waehler, Leonard A. se M.A., University of Wisconsin	Education	*Lomira*
Waldeland, Conrad Raymond B.A., St. Olaf College	Chemistry	*Northfield, Minn.*
Walters, Charles Henry B.A., College of the City of Detroit	Speech	*Detroit, Mich.*
Ward, Gerald C. B.S., University of Wisconsin	Civil Engineering	*New Lisbon*
Wartinbee, C. Howard B.S., University of Wisconsin	Chemistry	*LaCrosse*
Washburn, Justin Charles B.M., University of Wisconsin	Chemistry	*Tarrytown, N. Y.*
Watson, Kenneth M. Ph.D., University of Wisconsin		*Madison*
Watts, Alice D. B.A., University of Wisconsin	Medical Science	*Madison*
Weaver, Mary Hemenway BA., University of Wisconsin		*Madison*
Webb, Louise B.A., University of Wisconsin	Mathematics	*Ironwood, Mich.*
Webb, Mary B.A., University of Oklahoma	Spanish	*Norman, Okla.*
Webb, Mary Dorothy se B.A., Lawrence College	Education	*Lancaster*
Weber, Arthur G. B.A., University of Kansas	Chemistry	*St. Joseph, Mo.*
Webster, David Hume M.A., University of Wisconsin	English	*Princeton, N. J.*
Webster, Donald Everett B.D., Oberlin College	Sociology	*Madison*
Wegner, Kenneth Warren B.A., University of Wisconsin	Mathematics	*Lake Mills*
Wehmeier, Fred William B.A., University of Wisconsin	Physics	*Milwaukee*
Weir, Earl F. B.A., University of Wisconsin	Pharmacology	*Waupun*
Weiss, Harry B.A., University of Pittsburgh	Economics	*East Pittsburgh, Pa.*
Weiswasser, George B.A., College of the City of Detroit	Journalism	*Detroit, Mich.*
Wellmann, Sylvester Herman B.S., South Dakota State College	Pharmacy	*New Ulm, Minn.*
Westby, Kenneth Lynn B.A., University of Wisconsin	Economics	*Fort Atkinson*
Wheeler, Floyd Ernest l B.A., Beloit College	Political Science	*Madison*
White, Milton Christian M.A., Harvard University	English	*Jackson, Miss.*
Whitehead, Albert Edward B.A., Colorado University	Speech	*Manitou, Colo.*

Whitehead, Beulah Octavia se B.A., Illinois Woman's College	Education	*Easton, Ill.*
Whitelaw, Neill G. M.A., University of Wisconsin	Physics	*De Soto, Kans.*
Whitford, Albert Edward M.A., University of Wisconsin	Physics	*Milton*
Whittingham, Percy P. B.S., University of Wisconsin	Metallurgy	*Milwaukee*
Wild, Monica Rosina se B.A., Iowa State Teachers College	Education and Physical Education	*Cedar Falls, Iowa*
Wilkinson, Clarence Robert B.A., Marquette University	Romance Languages	*Oconomowoc*
Williams, Anita S. B.S, University of Cincinnati	French	*Madison*
Williams, Ivan Edward se Ph.B., University of Wisconsin	History	*Neenah*
Williams, Lewis Roland B.A., Heidelberg College	History	*Colon, Mich.*
Williams, Margaret Elizabeth se B.S., University of Wisconsin	Education	*Berlin*
Willis, Mary M.A., University of Wisconsin	American History	*Albany*
Wilmarth, Wilson Elery B.A., Wesleyan University	Romance Languages	*Willimantic, Conn.*
Wilson, Logan Thode B.S., University of Saskatchewan	Agricultural Chemistry	*Dundurn, Sask., Can.*
Wilson, Margaret Curtiss B.A., University of Wisconsin	English	*Madison*
Wilson, Perry William M.S., University of Wisconsin	Agricultural Chemistry	*Madison*
Wilton, Ocra Christine B.S., University of Arkansas	Botany	*Busch, Ark.*
Winans, Charles Francis B.S., University of Akron	Chemistry	*Akron, Ohio*
Winans, Marion Napper BA., University of Wisconsin		*Madison*
Winch, Ralph Philip M.A., University of Wisconsin	Physics	*Milton Junction*
Winchell, C. Bernice B.A., University of Wisconsin	Geography	*Madison*
Winchester, Genevieve Elizabeth B.A., University of Wisconsin	Music	*Madison*
Woldstad, Dorothy Mellen B.A., University of Wisconsin	Speech	*Oak Park, Ill.*
Wolf, Archie A. se B.S., University of Wisconsin	Agricultural Education	*Bangor*
Wolf, Lorelle Arthur M.A., University of Wisconsin	History	*Madison*
Wolf, Marcia Mary B.S., University of Wisconsin	Home Economics	*Madison*
Wolfe, Harold Reclus M.S., Rutgers University	Zoology	*Perrineville, N. J*
Wolfram, Claude Milton BA., Tri-State College		*South Bend, Ind.*
Woodworth, Charles Edward M.S., University of California	Economic Entomology	*Madison*
Woodyard, Edith Floy B.A., Drake University	Mathematics	*Colfax, Iowa*
Worrell, Anna B.A., Swarthmore College	English	*Ogden, Pa.*
Wright, Cecil Stuart M.D., Northwestern University	Radiology	*Madison*

Wright, Doris Ann M.A., University of Wisconsin	Zoology	*Minneola, Kans.*
Young, Chun Chieh B.A., Southeastern University	Medical Bacteriology m	*Shantung, China*
Yuan, Ching Te B.S., University of Illinois	Medical Science	*Mukden, China*
Zander, Arnold Scheuer B.S., University of Wisconsin	City Planning	*Two Rivers*
Zartman, Walter Hammond B.S., University of Illinois	Chemistry	*Madison*
Zeile, Adelaide B.A., Western Reserve University	Speech	*Ashtabula, Ohio*
Zeimet, Agnes Lillian M.A., University of Wisconsin	Genetics	*Madison*
Zellmer, Luther B.E., State Teachers College	Geography	*Madison*
Zempel, Arnold Lloyd M.A., University of Wisconsin	Speech	*Alva, Okla.*
Zenor, Ruth Florence B.A., Oklahoma City University	Economics	*Madison*
Zettler, Marie Emma se B.S., Ohio State University	Education	*Columbus, Ohio*
Ziegenhagen, Frederick William se B.S., University of Wisconsin	Education	*West Allis*
Zinn, Zea M.A.,University of Wisconsin	English	*Madison*

UNDERGRADUATES

COLLEGE OF LETTERS AND SCIENCE

SENIORS

GENERAL COURSE

Adams, Vivian Isabell	*Grand Rapids, Mich.*
Adamson, Martha Cecilia se	*Racine*
Ainsworth, Mrs. Margaret Hart	*Madison*
Ainsworth, Roy C. m	*Madison*
Albright, Ruth Emily se	*Columbus*
Alexander, Josephine Grigg se	*Milwaukee*
Allan, Lloyd Duard	*Fond du Lac*
Allen, Harold Sylvester	*Madison*
Allen, James Edward	*Madison*
Allen, Mary Brown	*National Military Home, Ind.*
Altmayer, Marie Suzanne se	*De Pere*
Amann, Eugenia Caroline se	*Prairie du Chien*
Anasis, Steve Emanouel	*Fond du Lac*
Anderson, Esther Mabel se	*Mountain*
Anderson, Ethel Lucille	*Chicago, Ill.*
Anderson, James Alfred	*Oshkosh*
Anker, Herman	*London, England*
Ansfield, Maurice Joseph m	*Milwaukee*
Argall, Grace Janice	*La Crosse*
Ascher, John	*Freeport, Ill.*
Ashley, Burton Edward	*Green Bay*
Ashman, Ruth Louise se	*Sheboygan Falls*
Atkinson, Margaret Dottridge	*Chicago, Ill.*
Atwell, Charles Richard	*Fort Dodge, Iowa*

Aubin, Francis Wilfred m	*Peshtigo*
Bablitch, Albert Joseph se	*Stevens Point*
Bachhuber, Max Otto m	*Mayville*
Bahn, Eugene	*Cape Girardeau, Mo.*
Bailey, John Withnal	*Princeton, Ill.*
Baker, Henry Kummel	*Milwaukee*
Baker, June B.	*Pottsville, Pa.*
Baldwin, Clayton Harlow	*Wauwatosa*
Baldwin, Elizabeth Meta se	*Evansville*
Ballenger, Nancy Aileen	*Indianapolis, Ind.*
Barnard, Helen Dorothy	*Chicago, Ill.*
Barr, Florence se	*Webster City, Iowa*
Barrus, Virginia Louise se	*Clinton*
Barry, Mildred Joan se	*Madison*
Bartel, Helen Marguerite se	*Milwaukee*
Bartelt, August Wernen	*Campbellsport*
Bartelt, Donald Earl	*Beloit*
Bartlett, Elizabeth Watson	*Drummond*
Baum, Hugo Carl m	*New Richmond*
Baumann, Karl Ferdinand Edwin	*Milwaukee*
Baume, Gertrude Winifred	*Madison*
Beach, Harriette Crang	*Ravinia, Ill.*
Beam, Eleanor McGill	*Cleveland, Ohio*
Beam, Imo Elizabeth	*Lakewood, Ohio*
Beamer, Evelyn Choate	*Mishawaka, Ind.*
Beatty, Samuel Richard m	*Richland Center*
Bebb, Caroline Elizabeth	*Chevy Chase, Md.*
Becker, Ezra	*Galesville*
Becker, Sylvia Dermanely	*Madison*
Beebe, Edmer m	*Bayfield*
Bekkedal, Martin Verdel	*Westby*
Bell, Charles Edwin	*Tomah*
Bellack, Mary Jeanette	*Columbus*
Benn, Vernard August m	*Medford*
Bennewitz, Hedwig Marie se	*Milwaukee*
Benninger, Merlin Clemens	*Waterloo*
Benson, Robert Gideon m	*Madison*
Berberich, Beatrice Odelia se	*Sauk City*
Berg, Helen Mildred se	*Madison*
Bergs, Harold Valentine	*Milwaukee*
Berman, Fred A.	*Milwaukee*
Berner, Artemas Frederick	*Antigo*
Berner, Lillian Marie	*Indianapolis, Ind.*
Beymer, Ruth Susan	*Estherville, Iowa*
Biba, Cherry Alice	*Muscoda*
Birnbaum, George Ernest	*La Crosse*
Birnbaum, William Robert m	*La Crosse*
Bishop, Harold Francis m	*Madison*
Blackman, Catherine Elizabeth	*Tullahama, Tenn.*
Blackwell, Mary Anna	*Omaha, Nebr.*
Blanchard, Mrs. Irene Griffin	*Madison*
Blanchard, Porter Bevan m	*Madison*
Blankstein, Samuel S. m	*Milwaukee*
Blasezyk, Celia Mae se	*La Crosse*
Bliesner, Cora Augusta	*Spring Valley*
Bloom, Mary Rose	*Beloit*
Blum, Benjamin B. m	*Monroe*
Blystone, Margaret Hull	*Huron, S. Dak.*
Boesel, Charles Manegold	*Milwaukee*
Bolles, Carlton Shepard m	*De Pere*
Bolton, James Roberts	*Racine*

Bookman, Virginia	*New York, N. Y.*
Booth, Marcia Jane se	*Marshfield*
Boots, Paul Heath	*Briggsville*
Bordeaux, Josephine Hosmer	*Muskegon, Mich.*
Bowers, Claire Frances se	*Oak Park, Ill.*
Bowser, Harriet Catherine	*Superior*
Boyd, George Lunt m	*Kaukauna*
Boyer, Helene Nafe m se	*Muskegon, Mich.*
Bradley, James Andre m	*Madison*
Brand, Helen Cecilia se	*Wausau*
Brandon, Mary Louise	*North Muskegon, Mich.*
Braun, Eleanor Frances se	*Superior*
Brecke, Lorraine Marie se	*Kenosha*
Brill, Sol Martin	*Milwaukee*
Brillman, Charles m	*Milwaukee*
Britton, Donald Medhurst	*Madison*
Brockett, Virginia, Mae Eveleth	*Madison*
Brott, Everel William m	*Marinette*
Brown, Dorothy Margaret	*Mount Horeb*
Brown, Harwin Joseph m	*Madison*
Brummond, Walter H.	*Menomonie*
Brunkow, Benjamin Henry m	*Monroe*
Buchan, Margaret Elizabeth	*Milwaukee*
Buckmaster, Gilbert George se	*Boscobel*
Burdick, Susanne	*La Grange, Ill.*
Burgy, Catherine Mary se	*Edgerton*
Burmeister, Viola Erna se	*Waukesha*
Burney, Mary Vick	*Martin, Tenn.*
Buss, Carl Alfred	*Jefferson*
Cairo, Eugene	*Racine*
Caldwell, Donald Marion m	*Rio*
Caldwell, Grace Lucille se	*Lodi*
Caldwell, Mabel Alice se	*Rio*
Campbell, Helen Elizabeth	*Cleveland Heights, Ohio*
Campion, Charlotte Frances Mary se	*Madison*
Cant, John Francis (pre-med)	*Westfield*
Cantor, Chesna se	*Far Rockaway, N. Y.*
Capener, Ormond Wendell l	*Baraboo*
Cardwell, Marian E. se	*Billings, Mont.*
Carlson, Leslie Arnold	*Superior*
Carlson, Olga E.	*Superior*
Cassoday, Eldon Joseph	*Madison*
Castle, James Baxter	*Madison*
Chamberlain, Helen Katherine se	*Madison*
Chang, Huan T.	*Fushun, Mukden, China*
Chang, Hung Mien	*Chuchow, Chekiang, China*
Chapin, Dorothy Jane se	*Rockford, Ill.*
Chase, Jeanette Katherine se	*Sun Prairie*
Chase, Lynn m	*Madison*
Chatfield, Evelyn Marie se	*Coloma*
Cheeseman, Jean Harriet	*Burlington*
Chen, Karl C.	*Shanghai, China*
Chen, Lin Jui	*Hangchow, China*
Chmielewski, Edmund Anthony	*Chicago, Ill.*
Chu, Dauphin F. l	*Changsha, China*
Claridge Catherine Mary se	*Chicago, Ill.*
Clark, James John m	*Janesville*
Clugston, Elizabeth Anne se	*Columbia City, Ind.*
Cmeyla, Patrick M. m	*Kewaunee*
Coe, Florence Ina	*Barron*
Cohen, Harvey	*Chicago, Ill.*

Coke, Marion Louise se	*Milwaukee*
Cole, Helyn Florence	*Larchmont, N. Y.*
Cole, Lydon Briggs l	*Madison*
Colehour, Philip Samuel se	*Mount Carroll, Ill.*
Collier, Betty Harriet se	*Racine*
Collins, Lillian Pauline se	*Charleroi, Pa.*
Collopy, Paul Joseph m	*Milwaukee*
Colt, Ruth Clara se	*Racine*
Connor, Constance Victoria Jane	*Marshfield*
Conohan, Ardyth Margaret se	*Madison*
Conrad, Lucille Martha	*Milwaukee*
Conway, Genevieve Frances se	*Enid, Okla.*
Cook, Mrs. Dorothea Hoffman	*New York, N. Y.*
Cooley, Margaret Ide se	*Milwaukee*
Cooper, Garrett Arthur m	*Watertown*
Copley, Lawrence Herbert	*Clear Lake, Iowa*
Coyle, Charles S.	*St. Louis, Mo.*
Cramer, Henry J.	*Steamboat Rock, Iowa*
Crone, Emma J. wls	*Marathon, Iowa*
Crosby, Fredric William l	*Neillsville*
Crowell, Arnold Loomis	*Park Ridge, Ill.*
Crowell, Charles Luther	*Park Ridge, Ill.*
Crowell, Kathryn Louise se	*Almond*
Crowley, Walter Francis	*West Allis*
Cucich, George Matt se	*Virginia, Minn.*
Cullen, Stuart Chester m	*Janesville*
Curreri, Anthony Rudolph m	*Brooklyn, N. Y.*
Curtis, Marion Frances se	*Delavan, Ill.*
Cushing, Margaret Langham se	*Portage*
Cutler, Jameson Youmans	*Maywood, Ill.*
Czerwienski, Florian se	*Chicago, Ill.*
Daib, Margaret Anna se	*Merrill*
Darby, Hortense Evans	*Superior*
Davidoff, Zelda	*Milwaukee*
Davidson, Raymond Chalmers se	*Milwaukee*
Davis, Kenneth William m	*Green Bay*
Davis, Laurence Mills	*Highland Park, Ill.*
Davison, Sol	*New York, N. Y.*
Dean, Orlen Camp se	*Hanover*
De Ford, Nell	*Syracuse, N. Y.*
De Guere, Helen A.	*Wisconsin Rapids*
Dehly, Josephine Anna	*Melrose, Mass.*
Dennis, Bruce W.	*Rockford, Ill.*
Derleth, August William se	*Sauk City*
Dessloch, Eli Max m	*Colby*
Dinerman, Abraham Harvey	*Brooklyn, N. Y.*
Dines, Helen	*Evanston, Ill.*
Dixon, John James l se	*Madison*
Doane, Edwin Addison m	*Salem, Ore.*
Dobson, Connolly Moore m	*Madison*
Dodd, Mary Isabelle se	*Crawfordsville, Ind.*
Donovan, Joseph Thomas l	*Madison*
Douglas, Martha Yates se	*Bloomington, Ill.*
Draper, Lucile se	*North Freedom*
Dresser, Elizabeth	*Madison*
Drouet, Warren	*Arlington, Mass.*
Dunaway, Don Carlos	*Racine*
Duncan, Glenn Allen se	*Madison*
Eagan, Catherine Elizabeth	*Flint, Mich.*
Eberhardt, Adolph T.	*Verona*
Eberlein, Margaret Ruth se	*Shawano*

Edgarton, Mrs. Helen Kathryn se	*Fond du Lac*
Edwards, Myrna June se	*Cambria*
Eggert, Mildred Clara	*Milwaukee*
Ekern, Irene Helen se	*Madison*
Ela, Walter Pell	*Edgerton*
Ellingson, Margaret	*Madison*
Ellingson, Thomas Louis	*Madison*
Ellis, Elizabeth Virginia	*Bryan, Ohio*
Elmer, Modesta se	*Argyle*
Engler, Paul Gustav	*Cassville*
Erwin, Lucille Jane wls	*Inwood, Ind.*
Eskilson, Violett Elizabeth se	*Beecher, Ill.*
Eskridge, Lydia Childs	*Camp Meade, Md.*
Evans, Robert Detweiler l	*Peoria, Ill.*
Everson, Katherine May se	*Lake Mills*
Faber, Charles Andrew m	*Milwaukee*
Faber, John Edwin m	*Watertown*
Fadiman, William James	*Forest Hills, N. Y.*
Fairbrother, Dorothy Beatrice	*Richland Center*
Feaster, Elizabeth Fay se	*Indianapolis, Ind.*
Feldman, Harry m	*New York, N. Y.*
Ferebee, June Dorothy	*Richland Center*
Fevold, Agnes M.	*Madison*
Fidler, Verna Jane	*Sturgeon Bay*
Findley, Helen Bernice se	*Wauwatosa*
Finn, Edith Rose	*Chicago, Ill.*
Fish, Lois Kathryn	*Madison*
Flader, Irene Myrtle se	*Milwaukee*
Fleischman, Frances Ellis	*New York, N. Y.*
Fletty, E. Valborg	*Eau Claire*
Follows, John William	*Milwaukee*
Ford, Kleth Karl m	*Racine*
Ford, Marcus Clizoe, Jr.	*Kansas City, Mo.*
Fosse, Alice Jeanette se	*Cambridge*
Fossum, Juanita Beryl se	*Aberdeen, S. Dak.*
Foster Katherine Lewis	*Fond du Lac*
Fournace, Ebert Gene	*Canton, Ohio*
Fox, Philip	*Madison*
Fox, Walter Everett	*Glencoe, Ill.*
Foy, Marie Catherine se	*New London*
Franseen, Mrs. Le Noir Alice	*Mukwonago*
Frederickson, Edward Arthur	*Madison*
Frick, Dorothy Jackson se	*Portage*
Frohne, Gilbert Paul se	*Wauwatosa*
Fuller, William Winslow	*Milwaukee*
Fulton, Mary Pearson se	*Indianapolis, Ind.*
Furst, Charles Wilkens	*Freeport, Ill.*
Fuszard, Doris	*Arena*
Gaer, Samuel E.	*Milwaukee*
Gander, Mildred Carol se	*Prairie du Chien*
Gannon, John Deane	*Madison*
Garrity, Richard William	*Beloit*
Gary, Katharine Wells	*Scarsdale, N. Y.*
Gates, Agnes Elizabeth se	*Rio*
Gauvin, Ursula	*Eau Galle*
Geil, Johanna se	*Milwaukee*
Geittman, William Frederick	*Beaver Dam*
Gendelman, Samuel Soloman	*Milwaukee*
Gerner, Morris Isaiah m	*Milwaukee*
Getz, Elinor Star	*Dallas, Texas*
Getz, Harriette Elizabeth se	*Madison*

Gier, Gladys Katherine se	*Mount Horeb*
Gilbert, Marion Elizabeth se	*Madison*
Gilbert, Walton Ellsworth	*Manitowoc*
Gill, Aileen Jackson se	*Cleveland, Ohio*
Gill, Mrs. Helen Black	*La Grange, Ill.*
Gill, Lois Margaret	*Madison*
Gillett, Elizabeth Lulu	*Superior*
Ginsburg, Helen Belle se	*Pittsburgh, Pa.*
Gold, Morris Alan m	*Milwaukee*
Golden, Abraham Alfred m	*New York, N. Y.*
Golley, Paul McClusky m	*Milwaukee*
Goodlett, Martha Washington se	*Madison*
Goodman, Eugene	*Chicago, Ill.*
Goodnight, Scott Hamilton m	*Madison*
Goold, Juanita Sophia se	*Madison*
Goudie, Elizabeth	*Ironwood, Mich.*
Granberg, Leonard Arthur se	*Crystal Falls, Mich*
Green, Chester Floyd	*Hixton*
Greene, Bruce Alden	*Madison*
Greenwald, Bernardine Henrietta se	*Milwaukee*
Gregory, Jeanette Winifred	*Manitowoc*
Griesser, Paul Walter	*Medford*
Grossman, Lawrence m	*Milwaukee*
Grossman, Max Albert	*Milwaukee*
Gruenberg, Herbert Matsner m	*New York, N. Y.*
Gruliow, Basia	*Elizabeth, N. J.*
Gullord, Edward George m	*Greenwood*
Gundlach, John J.	*Madison*
Gundlach, Mary Josephine se	*Prairie du Sac*
Gunnarson, Florence	*Chicago, Ill.*
Haan, Beatrice Marie se	*Milwaukee*
Hass, Alice Lydia se	*Lampson*
Haentzschel, Editha Martha	*Madison*
Hagenmeister, Karl	*Green Bay*
Hagen, Alice Frances se	*Osseo*
Hagerty, Robert Frederick	*Peoria, Ill.*
Halperin, Phillip Harold m	*Madison*
Hammen, Oscar John se	*West Bend*
Hammer, Eleanor Marie	*Madison*
Hannan, Eleanor Lucy se	*Milwaukee*
Hanson, Marshall Homer	*Eau Claire*
Hanson, Oscar Henry m	*Cambridge*
Harbridge, Frederick Spence	*Racine*
Harlow, Frank Edward	*Lakewood, Ohio*
Harrigan, Gerald Bernard m	*Milwaukee*
Harrington, Elizabeth Perry se	*Tulsa, Okla.*
Harrop, Clayton Dawson	*Arena*
Hartridge, Theodore Livingston m	*Oconomowoc*
Haslam, Edward Leonard	*Oshkosh*
Hasler, Edythe Edel se	*Canton, Ohio*
Hatleberg, Earl James A. m	*Chippewa Falls*
Hauge, Howard Le Roy m	*Madison*
Haugen, Margaret Wahl	*Rice Lake*
Haumerson, Elizabeth Eakin	*Janesville*
Haviland, Malcolm Douglas	*Janesville*
Hayden, Charles Gilbert	*Lansing, Mich.*
Hayhurst, William Crosby	*Kansas City, Mo.*
Hayner, Bessie Lucile se	*Dayton, Ohio*
Hazelton, James Charles se	*Wibaux, Mont.*
Heilprin, Bernard	*Madison*
Hein, Stanley Morton	*Waukegan, Ill.*

Heller, Theodore Alexander m	*Milwaukee*
Helm, Gertrude Marie se	*Royalton*
Herberg, Winfred Arthur se	*Mayville*
Herbert, William Thomas m	*La Crosse*
Hergenhan, Mildred E.	*Valhalla, N. Y.*
Hermann, Elmer Fred	*Carlton, Kansas*
Herreid, Jerome Harris se	*Deerfield*
Hertz, Roy	*Cleveland, Ohio*
Hilty, Robert Oxley l	*Toledo, Ohio*
Hirst, L. Dallas	*Madison*
Hoagland, Martha Bell se	*Chicago, Ill.*
Hoff, Marie Ingrid se	*Mount Horeb*
Hoffman, Jacob Samuel m	*Milwaukee*
Hoffmann, Howard Stephen	*South Milwaukee*
Hoffrichter, Maria Eileen se	*Kewaunee, Ill.*
Holle, Stafford Oscar se	*Nashotah*
Holman, Marie Alice se	*Kokomo, Ind.*
Holmburg, Charles W.	*New York, N. Y.*
Holt, Dorothy Janet se	*Edgerton*
Holtzmann, Pearl Hedwig	*Ableman*
Horr, Marian Suzanne	*Milwaukee*
Hovey, Ruth Elizabeth	*Madison*
Huebsch, Wilma Eva	*Milwaukee*
Hunt, Taylor Dwight m se	*Madison*
Hunter, Jean Marie	*Milwaukee*
Hunzicker, Ashley Andrew	*Madison*
Hurd, Emily Vaughan	*St. Louis, Mo.*
Hurth, Mary Caroline	*Cedarburg*
Huth, Melvin Frank m	*Cochrane*
Hyer, Richard Allen	*Fairwood, N. J.*
Icke, Philip Frederick	*Madison*
Ingram, Gladys D. se	*Dana, Ind.*
Irwin, Charlotte Martin se	*Berkeley, Cal.*
Jackson, Elizabeth Esther se	*Pittsburgh, Pa.*
Jackson, Katherine Eldora m	*Madison*
Jacobson, Lloyd Saul l	*Milwaukee*
Janda, Hazel Anna se	*Hartland*
Jandrey, Fred William	*Neenah*
Jasperson, Leona G.	*Viroqua*
Jelsmo, Mercedes Lucy se	*Des Moines, Iowa*
Jenny, Selina Louise se	*New Glarus*
Jensen, Frederick George m	*Menasha*
Joachim, Frederick George m	*Madison*
Jochem, Frederic Leopold	*Cedarburg*
Johnson, Muriel Barbara se	*Hillsboro*
Jones, Donald A.	*Lodi*
Jones, Robert Everett	*Racine*
Jones, Ronald Chalmers	*Evansville*
Jongewaard, Henry George m	*Kansas City, Mo.*
Jorgenson, Chester Eugene	*Racine*
Joslin, Harriet Mary se	*Darlington*
Joslyn, Margaret M	*Appleton*
Kafton, Robert Joseph l	*Green Bay*
Kahoun, Irma Doris se	*Prairie du Chien*
Kain, Katherine Gallagher se	*Algoma, Iowa*
Kammholz, Theophil Carl l	*Rib Lake*
Kane, Norah Edna se	*Green Bay*
Kanter, Mary Charlotte	*Milwaukee*
Kantor, Josephine Ann se	*Beloit*
Karnopp, Joyce Marie se	*Wautoma*
Kastner, Elfrieda M.	*Milwaukee*

Katona, Arthur	*Cleveland, Ohio*
Katz, Louise Sophia	*Chicago, Ill.*
Kaump, Donald Hunter m	*Madison*
Kautz, Erich m	*Merrill*
Keeley, Agnes Ward	*Madison*
Keenan, Arthur John se	*Beloit*
Kelley, Mary Elizabeth	*Pittsburgh, Pa.*
Kelling, Lillian Minna se	*Madison*
Kelly, Raphael Leo	*Evanston, Ill.*
Kelsh, Katherine Helen	*Oshkosh*
Kempthorne, Charles Roosevelt m	*Rewey*
Kendall, Ruth Opal se	*Milwaukee*
Kennedy, Joe E.	*Tulsa, Okla.*
Kennedy, Rebecca Scholastica se	*Mendota*
Kestley, Charles Frederick	*Antigo*
Kettle, Eleanor Edwards	*Kalamazoo, Mich.*
Keuper, Isabelle Louise se	*Union Grove*
Kindschi, Jean Douglas m	*Beloit*
Kinsella, Florence Marion se	*Milwaukee*
Kirmse, Thomas William m	*Marinette*
Kleinpell, Irma Eloise	*Madison*
Kline, Albert Adolph m	*Verona*
Klune, Frances Marion wls	*Chisholm, Minn.*
Kohler, Albert John	*Plymouth*
Konnak, William Frank m	*Racine*
Kowalsky, John William	*Milwaukee*
Krasno, Maxwell Robert se	*Milwaukee*
Krassen, Martha Mae se	*Appleton*
Krause, Anita Marie se	*Milwaukee*
Kremer, John Parker	*Duluth, Minn.*
Krom, Arthur K.	*Merrill*
Kroncke, George August Jr. l	*Madison*
Kroncke, Harriet Hermine	*Madison*
Krueger, Lillian Elinor	*Milwaukee*
Krueger, Stanley Sanford	*Sioux City, Iowa*
Krumm, Elinor Marie se	*Chicago, Ill.*
Kuchenbecker, Cyrilla Mary se	*Prairie du Chien*
Kuckuk, Rolland Antone l	*Shawano*
Kuenkler, Arthur	*Kenosha*
Kunde, Dorothy H. se	*Milwaukee*
Kundert, Helen Frances se	*Monroe*
Kyle, Constance se	*Tomah*
La Budde, Margaret Theresa	*Milwaukee*
La Chapelle, Hartley Ernest	*Waukegan, Ill.*
Lacke, Clement Le Roy m	*Lancaster*
Lackey, Vera Evelyn se	*Williams Bay*
Laemle, Robert Mayer m	*Marshfield*
Laing, Margaret Gordon	*Iron River, Mich.*
La More, Ruby Kristine se	*Madison*
Larson, Violet Clarice se	*Madison*
Lauer, Dorothy E. se	*Toledo, Ohio*
Laumann, Edna Irene se	*La Crosse*
Lawless, Dorothy Ann se	*Waukesha*
Lawrence, Lee Edward se	*Madison*
Lechausse, Ralph M.	*Newark, N. J.*
Lee, Earl Reuben m	*Cashton*
Lee, Helen Dorothy se	*De Pere*
Leffler, Victoria Anna	*New York, N. Y.*
Lehman, Lawrence Walter se	*Horicon*
Leibenson, Sam m	*Oshkosh*
Leitner, Moses m	*New York, N. Y.*

Leonard, Orville Chester l	*Kenosha*
Leopold, Margaret se	*Altoona, Pa.*
Leshin, Arno m	*Milwaukee*
Levy, Robert Henry	*Chicago, Ill.*
Lewis, Charles Noble m	*Madison*
Leyda, Gertrude Elizabeth se	*Deerfield*
Liebenberg, Henry Schoepp m	*Madison*
Lifschitz, Leo Martin m	*Brooklyn, N. Y.*
Linden, John Michael m	*Madison*
Lindquist, Norman Lester m	*South Milwaukee*
Linn, Virginia Hazen se	*La Grange, Ill.*
Linscott, Elizabeth	*Winchester, Mass.*
Littman, Reuben William	*Cecil*
Liu, George C.	*Shanghai, China*
Livergood, Florence Belle	*Madison*
Livingston, Max m	*Livingston*
Lloyd, Merton Moore	*Oshkosh*
Loehning, Gaylord Carl l se	*Neenah*
Logeman, Lina Doris	*Milwaukee*
Lohman, Ethel Kathryn wls	*Two Rivers*
Lohr, Carlton E. se	*Hartford*
Longhorn, Milton se	*Madison*
Loomans, Sarah Lillian se	*Waupun*
Looze, Archie Joseph	*Green Bay*
Loudenbeck, Dorothy Elizabeth	*Montclair, N. J.*
Loven, Otto Earl	*Oak Park, Ill.*
Lowe, James Templeton se	*Sheboygan*
Luchsinger, Janet se	*West Allis*
Ludden, Margaret Jane	*Mineral Point*
Luedke, Dorothy Ruth	*Chicago, Ill.*
Lunceford, Kathryn Mary	*Chicago, Ill.*
Luntz, Edna Alma	*Pittsburgh, Pa.*
Lutz, Bernard James se	*Chicago, Ill.*
Lybarger, Elizabeth Anne se	*Gambier, Ohio*
Lynaugh, Francis Bernard	*Madison*
McArthur, Andrew Mills	*Baraboo*
McCandless, Edward Earl m	*Antigo*
McCarter, John Carroll m	*Madison*
McCarthy, Katherine O'Shea	*Madison*
McCashen, Beulah Norcross	*Cleveland Heights, Ohio*
McCoul, Alice Louise se	*Tomah*
McCormick, Robert Becker	*Madison*
McCurdy, Elisha Keyes	*Madison*
McDaniel, Ruth A. wls	*Darlington*
McDermaid, Donald W. l	*Rockford, Ill.*
McDermott, Stephen Edward	*New Richmond*
McDonough, William Bernard m	*La Crosse*
McGann, Robert Lee	*Baraboo*
McGee, Margaret Elizabeth	*Galesburg, Ill.*
McGovern, Francis Henry m	*Milwaukee*
McGregor, Thomas Allen	*Milwaukee*
McKenzie, Harvey Clarence se	*Big Bend*
McKy, Keith Beryl se	*Blue River*
McLaughlin, Lucile Elinor se	*Eau Claire*
McLeod, Elizabeth Anabel se	*Madison*
McMurry, Jonathan Harold l	*Madison*
Maaske, Clarence Alfred	*Mayville*
Maecker, Harold Theodore	*Milwaukee*
Magid, Moreton Alexander	*Salt Lake City, Utah*
Mailhouse, Barbara Caroline	*New Haven, Conn.*
Malkow, Florence Wilma se	*Albany*

von Maltitz Helmut, Karl	*Gary, Ind.*
Manchester, Virginia	*Madison*
Manfield, Frieda S.	*Sterling, Ill.*
Mann, Mary Oleson	*Lombard, Ill.*
Manning, Susan Katherine	*Ambridge, Pa.*
Marinelli, Lena Angela se	*Hibbing, Minn.*
Markham, Arthur William l	*Independence*
Marsden, Evelyn Marion se	*Chicago, Ill.*
Marsh, Caroline Juliette	*West Somerville, Mass.*
Marshall, Wallace Sydney m	*Appleton*
Martin, John Harold	*Hammond*
Maslow, Abraham H.	*Brooklyn, N. Y.*
Mason, Carol Alice se	*Milwaukee*
Mather, Carmen Anita	*Atlanta, Georgia*
Mathewson, Elizabeth Taylor	*Wausaukee*
Mathison, Elizabeth Jean se	*Lake Geneva*
Matteson, Mary M.	*Chicago, Ill.*
Mautz, Helen Dorothy se	*Madison*
Mawhinney, Lilah Mae se	*Avalon*
Mayer, John Paul	*Milwaukee*
Mazloun, Memdouh Mehmed	*Constantinople, Turkey*
Meade, Donald Earl	*Hays, Kansas*
Mecikalski, August Ernest se	*Pelican Lake*
Meienburg, Milton William	*Manitowoc*
Meier, Martha Lois se	*Monona, Iowa*
Meigs, Hester	*Lafayette, Ind.*
Meikeljohn, Donald Waldron	*Madison*
Meisnest, Earl se	*Manitowoc*
Meschan, Morris Jean	*Cleveland, Ohio*
Meyer, Jeanne	*White Plains, N. Y.*
Middeldorf, Loretta Josephine se	*Beloit*
Millhaupt, Emmett Norbert	*Milwaukee*
Miller, Beulah Mercy Susan se	*Madison*
Miller, Harry Ely l	*Milwaukee*
Miller, Mary Agnes wls	*Kansas City, Mo.*
Miller, Mary Harriet	*South Bend, Ind.*
Miller, Mary Juliet	*Hillsboro, Ill.*
Mills, Charles Selby m	*Madison*
Minert, Beatrice Alberta se	*Milwaukee*
Mistele, Mary Lou se	*Jefferson*
Mitchell, Eleanor Isabelle se	*Clear Lake, Iowa*
Mittermeyer, Edward Joseph m	*Boyd*
Mizer, Hamilton Boyd	*Niagara Falls, N. Y.*
Mooberry, William Wilson	*Wauwatosa*
Moore, Maurice Letourneau	*Owensboro, Ky.*
Moores, Alice se	*Madison*
Morell, Sam	*Brooklyn, N. Y.*
Morgan, John Evan m	*Spring Green*
Morgan, Vivian E.	*Madison*
Morrison, David S.	*Rockford, Ill.*
Morrow, Florence Margaret se	*Blue River*
Morsbach, Charles Albert	*Chicago, Ill.*
Morse, Marjorie Jane se	*Madison*
Mostov, Phyllis Pansy se	*Toledo, Ohio*
Mougin, William Domer	*Elizabeth, Ill.*
Mudgett, Margaret Elizabeth se	*Zion, Ill.*
Munson, Mildred Oneta se	*London*
Munson, Newell Coyt	*Prairie du Chien*
Murphy, Aaron George l	*Brussels*
Nash, Dorothy Ethel	*Philadelphia, Pa.*
Nason, Robert Allen m	*Ripon*

Nathan, Celia se	*Milwaukee*
Nathenson, Hilda N.	*Madison*
Naysmith, Helen Rose Hansen	*Madison*
Necarsulmer, Evelyn se	*New York, N. Y.*
Needleman, Rae Leona	*Milwaukee*
Nelson, Daniel Earl	*Chicago, Ill.*
Nelson, Edna Louise se	*Livingston, Mont.*
Nelson, Florence Elizabeth se	*Stevens Point*
Neumann, Paula	*Brooklyn, N. Y.*
Newcomb, Charles Jones m	*Waupun*
Newcomb, Floyd Turner Jr.	*Kansas City, Mo.*
Nichols, Florence May se	*Madison*
Nides, Millicent Rhoda se	*Duluth, Minn.*
Niles, Gwendolyn	*Madison*
Nilson, Howard Seth	*Glencoe, Ill*
Norem, Walter m	*Bryant*
Norris, Jane Margaret se	*Manitowoc*
Noth, Rubye Ethel se	*Tomah*
Oakey, Philip Herbert m	*Madison*
Oberland, Aloysia Pauline se	*Manitowoc*
O'Brien, Alice Margaret	*Brainert, Minn.*
O'Donnell, Dorothy Julia se	*Antigo*
Oelmiller, Alma Katherine se	*Madison*
Older, Leone Florence wls	*Portage*
Olds, Harriet Susan se	*Madison*
Olsen, Bernice O.	*Monroe*
Olsen, Clarence Byron	*Milwaukee*
Olsgard, Wilfrid Ainsworth	*Milwaukee*
Olson, Carl Porter m	*Sheboygan*
Olson, Carolyn	*Glencoe, Ill.*
Olson, Evelyn Mabel	*Oak Park, Ill.*
Olson, William Arthur m	*Blanchardville*
Orth, Franklin Lewis	*Milwaukee*
Orth, Marie Catherine	*Milwaukee*
Osterhoudt, Walter Jabez	*Carthage, N. Y.*
Ostrander, Allen Roys	*Madison*
Otjen, Theo Putnam	*Milwaukee*
Ott, Walter Erwin se	*Watertown*
Ottersen, Signe Ruh	*West Salem*
Owen, Gaylord Thompson	*Madison*
Page, Dorothy Brown	*Madison*
Palm, Paul Oscar	*Williams Bay*
Palmeri, Joseph	*Madison*
Parish, George Alvin m	*Marinette*
Parkinson, Eleanor Katherine se	*Madison*
Parks, John Louis	*Muskogee, Okla.*
Parrish, Betty	*Paris, Ill.*
Parsons, Dorothy Louise	*Newark, N. J.*
Pasch, Maurice Bernard l	*New Holstein*
Patnode, Loraine Gertrude se	*Sioux Falls, S. Dak.*
Pattee, Dorothy Janet	*Pueblo, Colo.*
Pattison, Donald Haggart	*Rochester, Minn.*
Paulson, Sigrid	*Sturgeon Bay*
Paxson, Jane Taylor m	*Madison*
Pennefeather, Mary Joan se	*Kenosha*
Perry, Amy Leona se	*Evansville*
Perssion, Leon m	*Milwaukee*
Peske, Edgar l	*Chicago, Ill.*
Petersen, Gordon Waldemar m	*Neenah*
Peterson, Amy Dorothy se	*Ephraim*
Peterson, Milton Carl m	*Rockford, Ill.*

Pfeiffer, Carl Curt	*Peoria, Ill.*
Pfister, Elizabeth Joan	*Kilbourn*
Phillips, David	*Kenosha*
Phillips, Robert Thomas m	*Springfield, Ill.*
Phillips, Stella Esther	*Milwaukee*
Piore, Emanuel Ruvin	*Brooklyn, N. Y.*
Pivonka, John B. se	*Sturgeon Bay*
Plummer, Dorothy Williams	*Benton Harbor, Mich.*
Pomainville, Harold George m	*Nekoosa*
Port, Kenneth Edward l	*Portage*
Porter, Bernard Robert	*Madison*
Posthuma, Catherine Clare	*Chicago, Ill.*
Powell, Mrs. Harriet Magdelene	*Madison*
Powell, William Carter	*Wauwatosa*
Price, Arthur Berdell m	*Prescott*
Price, Jessie Ethelyn se	*Denver, Colo.*
Prinz, Franklin Ward	*Oak Park, Ill.*
Prochep, Francis Lillian se	*Milwaukee*
Proudfit, John Walker	*Milwaukee*
Puehler, Ruth Mary	*Madison*
Purdy, Reva Alice	*Pepin*
Quam, Margaret Jeanette se	*Lodi*
Quandt, Bernice I. se	*Hartford*
Rabinovitz, Lily se	*Cleveland, Ohio*
Rabinovitz, Samuel se	*Milwaukee*
Race, Esther Elizabeth	*Oak Park, Ill.*
Racolin, Vera Diane	*New York, N. Y.*
Ramsey, William Russell	*Chicago, Ill.*
Ravenscroft, Verna	*Glencoe, Ill.*
Ravenscroft, Violet	*Glencoe, Ill.*
Rawson, Thomas Scott	*Des Moines, Iowa*
Redford, John M. l	*Wisconsin Rapids*
Reed, Alfred Stivers l	*Ripon*
Reed, Elizabeth Ruth	*Boone, Iowa*
Reed, Ezekiel Conover	*Atlantic City, N. J.*
Reeke, John Donald	*Green Bay*
Regan, Caryl Ann	*Madison*
Rehder, Doris Fay se	*Fort Dodge, Iowa*
Reilly, Genevieve Estelle se	*Fond du Lac*
Rentz, Lucille Eleanor se	*Madison*
Ress, Ruth Laura	*Hartford, Conn.*
Rice, Sidney S. m	*Milwaukee*
Richter, James Garfield	*Davenport, Iowa*
Ries, Michael Fred m	*Lomira*
Riggs, Verna Grace se	*Ripon*
Riley, Roderick Hamilton	*Madison*
Ringe, Elmer Martin se	*Milwaukee*
Riter, Beth Josephine	*Belmont*
Ritter, Reginald Paul	*Milwaukee*
Roberts, Marjorie A.	*Ashland*
Robertson, Kathryn Jane	*Oskaloosa, Iowa*
Rodee, Carlton Clymer	*Milwaukee*
Roemer, Edward Pier	*Fond du Lac*
Rogazin, Dinah m	*Madison*
Rogers, Walter Cushing m	*Glen Ellyn, Ill.*
Roseburg, Bernice se	*Chicago, Ill.*
Rosenthal, Rosalyn Victoria se	*Chicago, Ill.*
Roth, Sol	*Beloit*
Rotter, Clara Diana	*Milwaukee*
Rupp, Margaret Mary se	*Madison*
Rusch, Harold Paul m	*Madison*

Ruttenberg, Jerome Joseph	*Chicago, Ill.*
Sakmann, Getrude se	*Madison*
Salinsky, Ben Edward se	*Sheboygan*
Sames, Albert Ayres	*Tombstone, Ariz.*
Samosky, Bernhard	*Milwaukee*
Sander, Dorothea Mabel se	*Madison*
Sannes, Borghild Sophia se	*Madison*
Sapp, Marian	*Ottawa, Ill.*
Sarfatty, Isaac Joshua m	*Milwaukee*
Sasser, Nancy Odam	*Princeton, W. Va.*
Sawyer, Leah Marie	*Hartford*
Say, Blanche se	*Madison*
Saylor, Mary Burbank se	*Green Bay*
Schaefer, Leroy William	*West Allis*
Schaefer, Walter Herbert se	*Madison*
Schafer, Sidney	*Madison*
Scheel, Ruth Myrtle se	*Burlington*
Schilling, Robert Wayne	*La Crosse*
Schini, Walter Byrar	*La Crosse*
Schloesser, Sharland Barbara se	*Lancaster*
Schmidt, Catherine Ann se	*Wausau*
Schmidt, Franklin James White	*Platteville*
Schmitt, Dorothea Mae se	*Milwaukee*
Schneider, Ethel M.	*Rice Lake*
Schoenfield, Catherine Emma se	*Madison*
Schoenike, Alice Blanca se	*Watertown*
Schorlemmer, Lena Amalia	*Llano, Texas*
Schroeder, Charles Morrison m	*Racine*
Schuchardt, Charlotte Rosalie se	*Milwaukee*
Schuck, Lester B. m	*Wauwatosa*
Schultz, Edith Louise	*Chicago, Ill.*
Schutter, Nancy C.	*Memphis, Tenn.*
Schwartz, Herbert Joseph	*Midllebury, Ohio*
Schwid, Nathan se	*Milwaukee*
Schwingel, Lucille Marie se	*Madison*
Scott, Mary Dean	*Maywood, Ill.*
Seabury, Lorna Gertrude se	*Pisgah, Iowa*
Secker, Girard Bacon	*Detroit, Mich.*
Segal, Bess se	*Cleveland, Ohio*
Seielstad, Earl Erven	*Detroit, Mich.*
Seno, Elvira C.	*Burlington*
Severson, Harold Louis	*Chicago, Ill.*
Seward, Lynn Jasper m	*Lake Mills*
Shabart, Elmer Joseph m	*Milwaukee*
Shafarman, Eugene Maurice m	*New York, N. Y.*
Shaner, Mary Elizabeth	*Greensburg, Pa.*
Shapiro, Aaron A. l	*Milwaukee*
Shapiro, Roselyn	*Madison*
Sharp, Helen Roberts se	*Shawano*
Shaver, Virginia Laurel se	*Racine*
Sheehan, William Clifford m	*Portage*
Sheldon, Charles Hunter m	*Rochester, Minn.*
Shelesnyak, Moses Chiam	*Milwaukee*
Shelles, Roger Johnson	*Toledo, Ohio*
Sheppard, Margaret Grace	*Pittsburgh, Pa.*
Shideler, Dorothy Jane se	*Indianapolis, Ind.*
Sholts, Nellie Ann se	*Madison*
Shultheis, Helen A. se	*Evansville*
Sickles, Gretchen Romaine	*Troy, N. Y.*
Siebenlist, Anita Kathryn se	*Milwaukee*
Siegel, Lee Edward m	*Milwaukee*

Siemers, Gladys Martha se	*Madison*
Sikorski, Blanche	*Milwaukee*
Silver, Irene Kathryn	*Racine*
Silver, Nola Vernelle	*Youngstown, Ohio*
Silver, Rosalyne Jacqueline se	*Racine*
Silver, Roselyn Marie	*Racine*
Simenson, Raymond Stanley m	*Wautoma*
Simonson, Lloyd Marlow m	*Deerfield*
Sinaiko, Rose Minerva se	*Madison*
Singer, Alvin William	*Chicago, Ill.*
Sirit, Mollie	*Evanston, Ill.*
Sleeth, Alpha Lillian	*Bonne Terre, Mo.*
Smith, Albert Randall m	*Madison*
Smith, Dorothy Annette wls	*Burlington*
Smith, Dorothy C.	*Madison*
Smith, Frances May	*San Diego, Cal.*
Smith, Guerdon Franck	*Peoria, Ill.*
Smith, Harry Hazen	*Chippewa Falls*
Smith, Janet MacDonald	*Madison*
Smith, Royetta McClean se	*Madison*
Smyers, Norma Irene se	*Butler, Pa.*
Snavely, Myretta Irene	*Milwaukee*
Sommerfield, Harry	*Chicago, Ill.*
Sontag, Jean Helene se	*Neillsville*
Sorkin, Leya se	*Livingston Manor, N. Y.*
Spence, Elaine se	*Boscobel*
Spencer, Dorothy Mary	*Swarthmore, Pa.*
Spero, Martin Rubin	*Milwaukee*
Sperry, Maxine Eleanor wls	*Owatonna, Min.*
Spielman, Walter L. Jr.	*Marietta, Ohio*
Spratt, Lillian Russell se	*La Crosse*
Springer, Vincent George m	*Rothschild*
Stamm, Erline Timberlake	*Madison*
Stanford, Charles Edward m	*Madison*
Stange, Lore C. se	*Milwaukee*
Starstead, Ezelyn Marjorie se	*Superior*
Stavrum, Thomas James	*Chicago, Ill.*
Stearns, Virginia Hart	*Kalamazoo, Mich.*
Stedman, Horace Lougee se	*Sturgeon Bay*
Steig, Enid Hildegarde wls	*Ladner, S. Dak.*
Steiner, Jerome Monroe l	*St. Louis, Mo.*
Stern, Max J.	*Milwaukee*
Stevens, Ralph Willard m	*Madison*
Stevenson, Homer Frank	*Oak Park, Ill.*
Stilwell, Florence se	*Fort Lauderdale, Fla.*
Stocking, Lois Wahler	*St. Louis, Mo.*
Stokes, Ethel Francis se	*Waterloo*
Stone, Thomas S.	*Reedsburg*
Strassburger, J. Robert	*Sheboygan*
Suby, Howard Ingram	*Stoughton*
Sullivan, Margaret Ellen se	*Delavan*
Swanson, John P.	*Milwaukee*
Sweet, Faye Cecelia	*Merrill*
Swenson, Leata Jessie se	*Racine*
Swenson, Selmer Gerhard m	*Ettrick*
Swisher, Rachel Wiedeman se	*Toledo, Ohio*
Sykes, Robert Hart m	*Madison*
Tatum, Edward Lawrie	*Madison*
Tax, Archie Hanwit m	*Milwaukee*
Tennant, Jeanne Louise	*Fond du Lac*
Tenny, Allen Johnson	*Chagrin Falls, Ohio*

Terry, Melvin C.	*Madison*
Tesar, Franklin Otto se	*Prairie du Chien*
Thiele, William Frederick	*Fort Wayne, Ind.*
Thomas, K. Elizabeth	*South Euclid, Ohio*
Thomas, Perry Marsden	*Racine*
Thompson, Carrol Lee se	*Harlingen, Texas*
Thompson, Herbert Merrill	*Wausau*
Thompson, Willard N. m	*Mauston*
Thorne, Elizabeth Ruth wls	*St. Louis, Mo.*
Thornton, Phyllis Lynn se	*Fairbury, Nebr.*
Tietjens, Janet	*Chicago, Ill.*
Toman, Fred Michael se	*Virginia, Minn.*
Tomei, Margaret Therese	*Chicago, Ill.*
Tormey, Leona Mary se	*Madison*
Townsend, Harriett Huntington	*Fort Dodge, Iowa*
Trachte, Violet Frances se	*Madison*
Tressler, Irving Dart	*Madison*
Tsao, His-Wen	*Shantung, China*
Tupper, Mabel Eleanor se	*Chagrin Falls, Ohio*
Ubbink, Alice Matilda se	*Port Washington*
Uphoff, Mrs. Lois Reeves	*Cottage Grove*
Urabec, John Henry m	*Sheboygan*
Van Abel, Mabel Ethel se	*Madison*
Vander Wall, Norman se	*Linden, N. J.*
Van Edig, Antoinette Barbara se	*Middleton*
Veum, Dorothy Margaret se	*Edgerton*
Volk, Meyer	*Milwaukee*
Voss, John Carl	*Hartford*
Vradenburg, Beulah Isabelle se	*Madison*
Walch, John Otto	*Antigo*
Walker, Jean se	*Madison*
Walker, Roland Eearly	*Hancock*
Wallichs, Wilma Louise se	*Fond du Lac*
Walper, Eileen Hollis se	*Toledo, Ohio*
Walrath, Mary Elizabeth	*Salamanca, N. Y.*
Walsh, Edith Mary se	*Milwaukee*
Walters, Gladys Dean se	*Rochester, N. Y.*
Wamnes, Anita Borghild wls	*Burlington*
Wang, Hsi Chung	*Honan, China*
Ward, William Whitney	*Tomah*
Warner, Josh Jones	*Chattanooga, Tenn.*
Waskow, Lois Adele	*Chicago, Ill.*
Weaver, Frank Max l	*Davenport, Iowa*
Weber, Helen Marie se	*Stevens Point*
Webster, LuVerne John m	*Antigo*
Weed, Isabelle Gifford	*Chicago, Ill.*
Wegman, George Henry m	*Oshkosh*
Wehle, Dorothea Massiah se	*West Bend*
Weinberg, Maurice Edward l	*Superior*
Weinhagen, Frances	*Milwaukee*
Weiss, Raymond J.	*Slinger*
Wendt, Floyd August m	*Madison*
Wetzel, Walton Ernest se	*Jefferson*
Whitaker, Philip Allan	*Racine*
Whitson, Merritt Bragdon	*Madison*
Wien, Irving Abraham m	*Burlington*
Wiest, Elizabeth Rozella	*Lancaster*
Wigen, Luella Roschek	*Milwaukee*
Wild, Joseph m	*Milwaukee*
Wilkinson, Helen Jean	*Wauwatosa*
Williams, Charlotte Burton se	*La Crosse*

Williams, David Gardner	*Platteville*
Williams, Eleanor Tyng	*Oshkosh*
Williams, Joyce Beatrice se	*Madison*
Williamson, Robert Gordon m	*Mexico City, Mexico*
Williston, Charles Stoddard, Jr.	*Chicago, Ill.*
Wilson, Pauline Antoinette se	*Chetek*
Winkley, Claire Jerome se	*Clinton*
Winston, Therese	*Madison*
Wise, Margaret L. se	*Kalamazoo, Mich.*
Wolf, Fred Herman	*La Crosse*
Wolfe, Florence Vergene se	*Lancaster, Ohio*
Wollaeger, Irene Louise	*Milwaukee*
Wollstein, Helen Rita se	*Hougton, Mich.*
Wood, Catharine Elizabeth	*Chicago, Ill.*
Wood, Elizabeth Beddoe se	*Milwaukee*
Wright, Nancy A. se	*Chicago, Ill.*
Wright, Paul Randall	*Highland Park, Ill.*
Wu, Kan	*Szechuan, China*
Wuerzberger, Florence Josephine	*Racine*
Young, Anne Elizabeth	*Omaha, Nebr.*
Young, Mariam Elizabeth wls	*Springfield, Ill.*
Young, Ruth Amy se	*Edgerton*
Zentner, Wilbur Ralph se	*White Creek*
Zeran, Franklin Royalton	*Manitowoc*
Zimmerman, Doris Adele	*Hartford*
Zinder, Reuben m	*Racine*
Zinn, Charline Elizabeth se	*East Troy*
Zox, Maurice Levi m	*Des Moines, Iowa*
Zubatsky, David Jacob m	*Milwaukee*
Zuehlke, Ora A. se	*Appleton*

SCHOOL OF COMMERCE

Ackley, Louise Gunderson	*Beloit*
Alk, Abe	*Green Bay*
Avery, Roy Charlie	*Lyons, Kans.*
Baker, George Emmett	*Chicago, Ill.*
Barney, Robert Matthew	*Sparta*
Bauhs, Paul William	*Madison*
Bensman, John	*Sheboygan*
Book, Ralph James	*Milwaukee*
Book, Raymond Albert	*Milwaukee*
Bowers, Roscoe Rufus	*Carbondale, Ill.*
Breitenbach, Casper Hauk	*Madison*
Chase, Gordon Argyle	*La Crosse*
Clark, Nancie May	*Cottage Grove*
Constance, Bradford Bryan	*Waupaca*
Curtiss, Ruth Lorine	*Salem*
Dahlen, Carl Edward	*Beloit*
Dassow, Romaine William	*Sheboygan Falls*
Davlin, Donald Francis	*Berlin*
Dixon, Robert Lyle	*Chippewa Falls*
Eisfeldt, Roy Charles	*Watertown*
Fisher, Dwight Thomas	*Brodhead*
Foseid, Oscar Fritjoff	*Madison*
Foster, Charles Miller	*Peoria, Ill.*
Fronk, Edward Joseph	*Spring Green*
Giessel, Lloyd A.	*Black Earth*
Gilbertson, George	*Arcadia*
Gilson, Raymond Robert	*Casco*
Goehrig, George Harold	*Milwaukee*

Goetz, John E.	*Hartford*
Griebling, Winfred Eric	*Milwaukee*
Gunderson, Harry Landgraf	*Sheboygan*
Guntz, Charles Melvin	*Milwaukee*
Hackbart, Leander Walter	*Merrill*
Hackney, Donald Peter	*Tomah*
Haley, Earl Daniel	*Madison*
Halvorson, Newman Thorbus	*Portage*
Harris, Mary Margaret	*Madison*
Hawkins, Waldo Pickens, Jr.	*Bowling Green, Mo.*
Hayward, Daniel Herbert	*Milwaukee*
Hayward, Jack	*Kewanee, Ill.*
Heibl, Joseph John	*South Milwaukee*
Hendrickson, Russell S.	*Chicago, Ill.*
Herz, Theodore	*Chicago, Ill.*
Hibma, Theressa Theodora	*Madison*
Highland, Irving H.	*Chicago, Ill.*
Hoyle, Charles Edward	*Lombard, Ill.*
Husting, John Jacob	*Mayville*
Johns, Harry	*Dodgeville*
Johns, Raymon Albert	*Nekoosa*
Johnson, Archer	*Albany, N. Y.*
Johnson, Raymond Geoffrey	*Madison*
Jones, Haydon Addison	*Madison*
Kamm, Kermit Albert	*Madison*
Kamm, Ralph Francis	*Madison*
Kaufman, Henry Norman	*Milwaukee*
Kautz, Walter Frederick	*Madison*
Keir, Mern Idale	*Madison*
Kenney, Robert James	*Madison*
Kieweg, Howard Hoffman	*Kewaunee*
Kneer, Corsten Frederic	*Eau Claire*
Knuth, George Adolf	*Milwaukee*
Koepke, Arno Helmuth	*Milwaukee*
Konn, George Frank se	*Cudahy*
Krause, William Frederick	*Wausau*
Kurtz, Elmer William	*Cedarburg*
Lamm, Arnold Edward	*Freeport, Ill.*
Lander, Quintin Scougall	*Rockford, Ill.*
Langabeer, Lillian Agatha	*Fairbury, Ill.*
Lange, Edward Laurence, Jr.	*Winnetka, Ill.*
Lange, John Gustav	*Mayville*
Larson, Frans Gustaf	*Green Bay*
Le Count, Kenneth Robert 1	*Hartford*
Lee, Adolph Sigreid	*Deerfield*
Leemkuil, Raymond	*Burlington*
Levine, Nathan	*Racine*
Lillge, Milton George	*Appleton*
Lynn, Donald Claire	*Mount Hope*
McBurney, Floyd Willard	*Madison*
McCarthy, Daniel Waldo	*Sioux Falls, S. Dak.*
McClanathan, Maurice Lester	*Sterling, Ill.*
McCormick, Montgomery Patrick	*Madison*
McNamara, William A.	*Superior*
McNary, David Littel, Jr.	*Freeport, Ill.*
Mandelstom, Theodore Dale	*Sioux City, Iowa*
Mazur, David Solomon	*Madison*
Meslow, Ormond Bredesen	*Chippewa Falls*
Metz, Anton Leo, Jr.	*Madison*
Miller, Enoch Walter	*Sheboykan*
Miller, Viola Mae	*Verona*

Misfeldt, Ruth Hilda	*Chippewa Falls*
Molzahn, Roland Frederick	*La Crosse*
Morin, Robert Juel Elwood	*Eau Claire*
Mueller, Gertrude P.	*Forestville*
Myers, Arno Rhodes	*Clarion, Iowa*
Nell, Harry William	*South Milwaukee*
Nottleman, Carlton F.	*Oshkosh*
O'Hearn, Leslie Leo	*Reedsville*
O'Leary, Henry J. 1	*Madison*
O'Malley, Catherine Margaret	*Waunakee*
Osterbind, Helen	*Monroe*
Pages, Mauricio	*Buenos Aires, Argentina, S. A.*
Paradies, Frederick Arthur	*Manila, P. I.*
Paul, John Alexander	*Milton Junction*
Pearson, John William	*Chicago, Ill.*
Perry, Donald Berwick	*Superior*
Plous, Harry James	*Kenosha*
Prisk, Edgar Walter	*Mineral Point*
Roberts, Chester Richmond	*Lake Mills*
Robertson, Donald	*Madison*
Rosholt, Vernon Lamar	*Rosholt*
Schaal, Dale Harvey	*Oconto Falls*
Schoeneich, William Henry	*Milwaukee*
Scott, William Inglis	*Brandon*
Seefeld, George Herbert	*Milwaukee*
Sennett, Raymond Francis	*Madison*
Shebesta, Raymond J.	*Cato*
Sichling, John Henry	*Milwaukee*
Slightam, Richard Canfield	*Madison*
Smith, Bernard J.	*Broadhead*
Smith, William Noble se	*Platteville*
Taylor, Richard Peables	*Wausau*
Thoma, Harry Charles	*Milwaukee*
Vickery, Edwin Frank	*Madison*
Wachsmuth, Evelyn Louise	*Bayfield*
Waggershauser, Robert Konrad	*Madison*
Waisman, Joseph Louis	*Racine*
Watson, Rexford S.	*Janesville*
Werblow, Felix Ernest	*Juneau*
White, John Joseph	*Beardstown, Ill.*
Wichrowski, Boleslaw	*Madison*
Williams, Kenneth Joseph	*Milwaukee*
Winer, Morris	*Chicago, Ill.*
Woerner, Emanuel Oettinger	*Chicago, Ill.*
Ziese, Edgar August	*Milwaukee*
Zweifel, Mildred Nellie	*Monticello*

SCHOOL OF JOURNALISM

Allen, Edwin Forest	*Sioux City, Iowa*
Biesanz, Beatrice E.	*Winona, Minn.*
Bragarnick, Ruby Myrtle	*Milwaukee*
Brunckhorst, Frank Louis	*Platteville*
Budd, Lelia Jamesson	*La Crosse*
Carr, Julia Monnier	*Scales Mound, Ill.*
Carroll, Sylvia Helen	*Altoona*
Christensen, Lillian Ingeborg	*Racine*
Curtis, James Andrew	*Libertyville, Ill.*
De Vuyst, Dorothy Jean	*Bristol*
Dix, Robert Clinton	*Wooster, Ohio*
Durand, Elizabeth McVickar	*Milwaukee*

Godley, Robert Franklyn	*East Cleveland, Ohio*
Gottlieb, Aaron	*Hutchinson, Kans.*
Harb, George Henry	*Madison*
Harlan, Herbert Graves	*Fort Wayne, Ind.*
Hayden, Margery	*La Crosse*
Heinz, Robert Alexander	*Milwaukee*
Helgeson, John Thomas	*Madison*
Higley, Stuart Luther	*East Cleveland, Ohio*
Holstein, Theodore Stiehl	*Madison*
Horn, Vivian Josephine se	*Ladysmith*
Hulten, Charles Morris	*Marinette*
Jacobson, Roland Eugene	*Rochester, Minn.*
Kissinger, Esther Marie	*Elkhart Lake*
Kline, Mrs. Susan Leroy White	*Vermillion, S. Dak.*
Korman, Seymour Morton	*Milwaukee*
Lemmer, Ruth Thelma	*Spooner*
List, Hugo Karl	*Augusta*
McIlrath, William Frederick	*Kenosha*
Mandt, Paul Harold	*Sun Prairie*
Miebach, Frederick William	*Paterson, N. J.*
Miller, John Bryant	*Madison*
Mitchell, Katherine Elizabeth	*Bay City, Mich.*
Mueller, William Arthur	*Aberdeen, S. Dak.*
Nagle, Mildred Elizabeth	*Flint, Mich.*
Orlebeke, Adriana l	*Oshkosh*
Patterson, Blanche Lucille	*Madison*
Payne, William Edward	*Wausau*
Plummer, Donald Martin	*Grand Rapids, Mich.*
Polk, Jean Elizabeth	*Madison*
Pumplan, Molly Mavis	*Chicago, Ill.*
Reese, Eleanor Ann-Louise	*Oak Park, Ill.*
Rossmaessler, Edwin Otto se	*Madison*
Ruddick, Robert Merrill	*Pewaukee*
Sharpe, Esther Jessie	*Verona*
Soronen, Arthur Nikolai	*Virginia, Minn.*
Stiles, Maxine	*Milwaukee*
Strand, Francis Raymond	*Iola*
Stretch,Phillip Alexander	*Oshkosh*
Sutherland, Jean Menzies	*Janesville*
Sutton, Robert E.	*Milwaukee*
Trowbridge, Evelyn	*Madison*
Tweed, Bernice Adele	*Duluth, Minn.*
Volz, Vivian Virginia	*Arlington Heights, Ill.*
Wallschlaeger, Rhyda Rena	*Coleman*
Wheeler, Dorothy Field	*Racine*
Will, Helen Elizabeth se	*Wausau*
Williams, Ruth Jeanette	*Cambria*

COURSE IN HUMANITIES

Aarons, Lehman Charles	*Milwaukee*
Gundlach, Eleanor Pauline	*Prairie du Sac*
Johnson, Van Loran	*Medford*
Kistler, Ellen Downey	*Milwaukee*
Knope, Wilma Verna se	*Madison*
Rosenheimer, Florence Catherine se	*Kewaskum*
Rumsey, Helen Bartlett	*Duluth, Minn.*
Small, Bonnie Blanche se	*Madison*
Sperling, Jerome William	*Sheboygan*
Thelander, Theodore Alexius	*Chicago, Ill.*
Wagner, Dorothea Lydia se	*Madison*

GENERAL COURSE (BACHELOR OF PHILOSOPHY)

Andreassen, Johan Christian Ludwig	*Menomonie*
Arne, Peter	*Eagle Grove, Iowa*
Bade, Arno Herman	*Cochrane*
Baertschy, Verna Elizabeth	*Eau Claire*
Barrett, Fred Thornton	*Chicago, Ill.*
Bauer, Charles Elmer	*Mitchell, S. Dak.*
Benson, Glenn Melvin	*Chicago, Ill.*
Blake, George Golder	*Madison*
Blanchard, Wilbert George	*Madison*
Bloss, Truman George se	*Fox Lake*
Bowen, Arlan	*Osseo*
Brossard, Glen Augustus	*Fall River*
Burridge, George Nau	*Green Bay*
Byrge, Homer Norbert	*Verona*
Campbell, Cecil R.	*Chicago, Ill.*
Carney, Cleo Mary	*Rice Lake*
Casey, George Raymond	*Chicago, Ill.*
Chase, Albert Victor	*Milwaukee*
Chilgren, Hazel Ruth	*Eau Claire*
Coffman, Gerald Douglas se	*Madison*
Conway, Kenneth Harrison	*Baraboo*
Cowley, Milford Alton	*Barron*
Crook, Mildred McReynolds	*Madison*
Dahl, Violet Helen	*Superior*
Densky, Willard Charles	*Milwaukee*
De Voe, Charles F. se	*Argyle*
Dewey, Lewis William	*Middleton*
Douglas, Lorrie Nelson	*Hubbards Woods, Ill.*
Ellis, Albert Kellar	*Appleton*
Fischer, Henry Harold se	*Plainfield*
Folsom, Howard William	*Fond du Lac*
Ford, Erwin Charles	*Milwaukee*
Forkin, Edward William	*Racine*
Foster, Harold Emerison	*Chicago, Ill.*
Gallo, Frederick Leon	*Monroe*
Gant, John Ross se	*Delavan*
Garstang, William Walk	*Indianapolis, Ind.*
Gasche, Jacob Benjamin	*Luxemburg*
Grobben, Helen G.	*Milwaukee*
Gust, Charles Mark se	*Baraboo*
Hackner, David Harold	*Chicago, Ill.*
Hagan, Nelson Milo	*Madison*
Hagen, Alice Marjory	*Nye*
Hake, Walter Scott, Jr. se	*Elroy*
Hanke, Robert Edward	*Oshkosh*
Hansen, Donald Frary	*Evansville*
Hansen, Henry Paul se	*La Crosse*
Hanson, Roy Isadore	*Madison*
Hart, James Arthur	*Maywood, Ill.*
Hedrick, Dean Darwin	*Peoria, Ill.*
Heil, George Anslem	*Madison*
Hertzberg, Carl Cleveland	*Sheboygan Falls*
Holliday, Murray Lucas	*Fairmount, Ind.*
Jones, Byron Wendell se	*Barneveld*
Jordan, Marlin Leroy se	*Barneveld*
Juncker, Aaron John	*Evansville, Ind.*
Karges, Burton Ellsworth	*River Falls*
Karsten, Ira Earl	*Burlington*
Laubenstein, Harold John	*Port Washington*

Liebenberg, Rex Lionel	*Madison*
Lynn, Edward S. se	*Onalaska*
Lytle, Paul Apthorp	*Cleveland, Ohio*
MacGregor, Roderick Dhu	*Madison*
Metz, Grace Elizabeth se	*Foulkton, S. Dak.*
Michelson, Mary Meta se	*Hazelhurst*
Miller, John Francis m	*Decatur, Ill.*
Milverstedt, Fred	*Madison*
Morton, Emanuel D.	*Chicago, Ill.*
Peters, Chester Fredrick	*Milwaukee*
Robbe, Harvey Millard l	*La Crosse*
Roethig, Carl Dave se	*Butternut*
Rosen, Gertrude	*Chicago, Ill.*
Royce, Helen Etter	*Platteville*
Ruskauff, Camille Ann se	*Madison*
Schoonover, Blanche Irene	*Madison*
Schumann, Victor se	*Mayville*
Schwahn, Herbert Julius	*Milwaukee*
Schomaker, Lawrence	*Herrin, Ill.*
Simpson, Arthur O. se	*Sturgeon Bay*
Slechta, Jerome Mathew l	*Madison*
Smith, Grace M.	*Montfort*
Smith, Lewis Fitzwater se	*Prospect, Ohio*
Snow, Gordon Harold	*Oak Park, Ill.*
Steenis, John Holt	*Madison*
Steuber, William Floyd	*Madison*
Steven, William Pickford	*Eau Claire*
Tanner, Howard Joseph	*Berlin*
Tax, Sol	*Milwaukee*
Taylor, Anita Louise	*Iola*
Thomas, John Edward	*Madison*
Thompson, Allan Edward l se	*Elroy*
Tietelbaum, Aaron Lional l	*Wauwatosa*
Torkelson, William Edward l	*Madison*
Treichel, William Charles l	*Racine*
Trenary, Ethel Agatha	*Madison*
Tripp, Gordon Conklin se	*New York, N. Y.*
Warren, Ebert Osborne	*Akron, Ohio*
Wegner, Margaret E.	*Sheldon*
Wegner, Willard LeRoy se	*Lake Mills*
Whitney, Lester Vincent se	*Chicago, Ill.*
Wilcox, Franklin Clinton	*Janesville*
Wilcox, Jack Henry	*Milwaukee*
Williams, Gilbert Dunbar	*Milwaukee*
Williamson, Donald Alexander se	*Mount Carroll, Ill.*
Wolf, George P.	*Chicago, Ill.*

NORMAL COURSE

Austerud, Stella Marie	*Martell*
Bangs, Florence Estelle	*Spencerport, N. Y.*
Barton, Carrie Robinson se	*Elizabeth, Ill.*
Bean, Adella Emma se	*Erie, Pa.*
Beitler, Lola Cora	*Boscobel*
Brill, Daniel Sinclair	*Madison*
Brookmire, Emma Frances	*Marinette*
Devine, Mae Estelle se	*Perronville, Mich.*
Emerson, Mae O. se	*Pewaukee*
Foster, Viona Lenore	*Roberts*
Goetz, Emily	*Milwaukee*
Hansen, Grace Adelaide	*Glenbeulah*
Hanson, Gertie Lulie se	*Richland Center*

Jacobi, Erna Charlotte	*Madison*
Kuckuck, Lillian Viola	*Tomah*
McIlquham, Elizabeth Jane se	*Madison*
McIlquham, Victoria Maria se	*Madison*
Pokorny, Emily Mary	*Madison*
Schoonover, Bertha E.	*Madison*
Shea, Edward J. se	*Tucson, Ariz.*
Watson, Vera Violet se	*Warren, Ill.*
Webber, Mary Minnie se	*Fort Atkinson*
Whitney, Maude Henrietta se	*Stevens Point*
Wittenberg, Grace Irene	*Milwaukee*
Yelland, Edith Charlotte	*New London*

CHEMISTRY COURSE

Brandt, Lawrence William	*Wausau*
Chambers, John Stephen	*Chicago, Ill.*
Copeland, Charles Sallaz	*Rockford, Ill.*
Davidson, Harry	*Brooklyn, N. Y.*
Davidson, Raymond Chalmers se	*Milwaukee*
Georgi, Carl Edward	*Milwaukee*
Gerlach, Thomas Gordon se	*Weyawega*
Groth, Clarence	*Watertown*
Hames, John Baptist	*Madison*
Hansen, Howard C.	*Glenbeulah*
Helz, Armin W.	*Milwaukee*
Hook, Frederick Stearns	*South Milwaukee*
Jacobson, Ellen Louise	*Wauwatosa*
Knight, Oliver Drake	*Madison*
Krause, Wallace Harold	*Edgerton*
Kuhe, Emil	*Madison*
Lease, Elmer John	*Madison*
Lewon, Louis	*Glasgow, Mont.*
Meindl, Frank	*Butternut*
Olson, Warren Zinser	*Beaver Dam*
Orcutt, Fred Scott	*Sioux City, Iowa*
Piper, Carl Victor	*Watertown*
Powell, William Theodore	*Stevens Point*
Reid, James Alexander	*Genoa, Ill.*
Sawyer, Clair Nathan	*Almond*
Schoenfeld, Edwin Martin	*Plymouth*
Schultz, Raymond Fred	*Milwaukee*
Spengeman, Willard Fred	*Chicago, Ill.*
Tao, Philip T.	*Tientsin, China*
Taylor, Fred Lowell	*Belmont*
Trubell, Oscar	*Glasgow, Mont.*
Van Valkenburgh, George Adams se	*Two Harbors, Minn.*
Wenck, Peter Rudolf	*Milwaukee*

CHEMISTRY-COMMERCE COURSE

Bainbridge, Henry Dockray	*Ableman*
Behrend, Rosemary	*Madison*
Cummings, Harold French	*Madison*
Gaulke, Erwin Charles	*Rio Creek*
Graebner, Elmer Robert	*Wausau*
Lipkin, John	*Milwaukee*
Lueth, Charles S.	*Manitowoc*
Pinkerton, Carleton Clark	*Oshkosh*
Robinson, Francis	*Madison*
Rothe, Lloyd Bertrand	*Madison*
Tarnutzer, Charles Arthur	*Prairie du Sac*

COURSE IN PHYSICAL EDUCATION

School of Education

Accola, Earl Marvin se	*Prairie du Sac*
Ahlberg, Paul Leighton se	*Joliet, Ill.*
Albrecht, Emily A.	*Des Moines, Iowa*
Baker, Beatrice Ann	*Goodman*
Barton, Edith Grace	*Duluth, Minn.*
Bergland, Elsie Irene	*Berwyn, Ill.*
Buck, Nadine Emily	*Topeka, Kans.*
Burdon, Stanley James	*Bloomington*
Bushman, Madeline F.	*Chicago, Ill.*
Caldwell, Mary Isabel	*Glen Ellyn, Ill.*
Caswell, Lewis Earle	*Madison*
Clapp, Grace Ione	*Madison*
Coen, Clara Elizabeth	*Detroit, Mich.*
Cooper, Ada Elizabeth	*Saskatoon, Sask., Can.*
Cox, Walter	*Racine*
Cromey, Robert George se	*Madison*
Davies, Ruth Elizabeth	*Milwaukee*
Diehl, Milton Line	*Fort Wayne, Ind.*
Drasnin, Gertrude Glada	*Charleston, W. Va.*
Eckstein, Helene Stearns	*Chicago, Ill.*
Ellerman, Harry Frederick	*Chicago, Ill.*
Farber, Maurice Norman	*Chicago, Ill.*
Flancher, Howard	*Chicago, Ill.*
Flint, Charlotte	*Milwaukee*
Flueck, Alice Anne	*La Crosse*
Gilman, Helen Virginia	*Appleton*
Gustavel, Walter H.	*Chicago, Ill.*
Hall, Odell Leroy	*Marble, Minn.*
Hansen, Harry Ingwald	*Cleveland, Ohio*
Kelsey, Howard Sturtevant	*Delavan*
Kilbourn, Eleanor Spencer	*Sterling, Kans.*
Lieb, Philip Walter	*Faribault, Minn.*
McCall, Agnes Wynne	*Perry, Iowa*
McKenzie, Margaret Christine	*Detroit, Mich.*
McLellan, Helen	*Burlingame, Calif.*
Mathias, Walter Henry	*Rib Lake*
Matthusen, Carl Henry	*Chicago, Ill.*
Meier, William Robert se	*Bloomer*
Mellody, Margaret	*Chicago, Ill.*
Merton, Sibley	*Clayton, Mo.*
Mickelson, Palmer Melvin	*Madison*
Miller, Verna Marie	*New Ulm, Minn.*
Minton, Melvin Maurice	*Minocqua*
Murphy, Joseph Herbert	*Chicago, Ill.*
Nelson, Alice Frances	*Beloit*
Nelson, Clayton Theron	*Valders*
Neupert, Laurence Otto	*London*
Olson, Gilbert Byron	*Neillsville*
Olwell, Glenn Francis	*Madison*
O'Neill, Edward John	*Cuba City*
Palmer, Carlos A.	*Janesville*
Parkhurst, Mary E. Grant	*Buffalo, N. Y.*
Pease, Florence Reed	*Richland Center*
Sloan, Mary Virginia	*Clarksburg, W. Va.*
Spaeni, Henry Herbert	*Monroe*
Stangel, Frank Otto se	*Tisch Mills*
Swanson, Ruth Ingelov	*Benton Harbor, Mich.*

Swiderski, Edward	*New Duluth, Minn.*
Trayford, Cyril se	*Chicago, Ill.*
Verhulst, Lucille Hattie	*Milladore*
Voit, Agnes Lydia	*St. Louis, Mo.*
Wasson, Katherine W.	*Duluth, Minn.*
Webber, Lenora Elizabeth	*Gary, Ind.*
Weiss, Mercedes Virginia	*Milwaukee*
Wiesner, Theodora Hildegarde	*Superior*

COURSE IN APPLIED ARTS

Abert, Richard Ervin	*Milwaukee*
Benjamin, Lora Maud se	*Grand Rapids, Mich.*
Blosser, Florence Elizabeth	*Fort Wayne, Ind.*
Borcherdt, Frederick Henry	*Manitowoc*
Braudt, Lucille Georgette se	*Plainview, Texas*
Caird, Harry, Jr.	*Madison*
Chase, Nellie Mae se	*Madison*
Deer, Bonnie Ruth se	*Franklin, Ind.*
Duggar, Benjamin Minge, Jr.	*Madison*
Durlin, Mary Dorothy se	*Madison*
Foss, Eunice Esther se	*Janesville*
Fosshage, Frances Lois se	*Mount Horeb*
Gerber, Janet Almeda se	*Baraboo*
Haggart, Eugenia Mary se	*Janesville*
Harrison, Richard W.	*Milwaukee*
Henderson, Elizabeth Mary se	*Chicago, Ill.*
Hodges, Jennie Theodosia	*Gary, Ind.*
Hurd, Robert Wilson se	*Madison*
Jaeger, Charlotte Marie se	*Madison*
Johnson, Helen Caroline	*Chicago, Ill.*
Kinsley, Frances Vivian se	*Elgin, Ill.*
Krueger, Gilbert Hugo	*Neenah*
Lenicheck, Herbert C. A.	*Milwaukee*
Lipkey, Vere Elizabeth se	*Fort Wayne, Ind.*
McCann, Mrs. Ethel Reynolds	*Madison*
McManamy, Lorraine Catherine se	*Madison*
Martin, Lenore Wilhemina se	*Fond du Lac*
Marting, Suzanne se	*Detroit, Mich.*
Merrill, William J. se	*Portage*
Mitchell, Margaret se	*Clear Lake, Iowa*
Owen, Sally Adeline	*Madison*
Pech, Ruth Hermoine	*Manitowoc*
Purcell, Sally	*Madison*
Richmond, Jessie June se	*Lodi*
Schlicher, Karl Theodore	*Madison*
Smith, Janet Elizabeth se	*Wauwatosa*
Solmes, Elsie Janet se	*Madison*
Summ, Helmut	*Kohler*
Swensen, Elizabeth Smith se	*Madison*
Vethe, Mildred Bernice Elizabeth se	*Baraboo*
Wilcox, Katherine Dorothy	*Janesville*
Winsey, Reid Alexander	*Appleton*
Withey, Marion Harker	*Madison*
Wittwer, Ernestine Marie se	*Madison*
Zabel, Ethel Kathryn	*Chicago, Ill.*

COURSE IN INDUSTRIAL EDUCATION

Dore, C. Thomas se	*Oshkosh*
Loomis, Damon Ward se	*Kilbourn*

Petrie, Arthur Robert se	*Chicago, Ill.*
Putnam, Monroe Lahl se	*Harvard, Ill.*
Radtke, Roy Arthur se	*West Allis*
Teska, Joseph James se	*Chicago, Ill.*

PHARMACY

Four-Year Course

Bacon, Lewis Duaine	*New London*
Bauer, Gladys Catherine	*Milwaukee*
Clark, Oliver Perry, Jr.	*Chillicothe, Mo.*
Correll, Howard Le Roy	*Spring Green*
Druschke, Harold August	*Milwaukee*
Fendig, Ralph Watson	*Rensselaer, Ind.*
Gisvold, Ole	*Stanley*
Gulick, Lee Engle	*Danville, Ill.*
Gunderson, Robert Howard	*Madison*
Krohn, Ruben Gustave	*Sullivan*
Norris, Leighton Cyrus	*Madison*
Schermerhorn, Paul Herbert	*Madison*
Schoen, Henry Paul	*La Crosse*
Tanaka, Tadahirb	*Honolulu, Hawaii*
Wulff, Carl Alfred	*Grafton*

Three-Year Course

Adams, Lawrence Edward	*Mount Hope*
Anderson, Alwin Arthur	*Madison*
Bergman, William	*Chicago, Ill.*
Craig, David Robert	*Oconomowoc*
Dettloff, Connie Keith	*Bloomer*
Gibbons, Edgar Eugene	*Antigo*
Gilbert, Lester	*Sturgeon Bay*
Gliddon, Percy Charles	*Hampshire, Ill.*
Johnson, Roderick Quintin	*Spirit*
Kamps, H. Gordon	*Marshfield*
Keenan, George Ignitius	*Elkhart Lake*
Kummer, Louis L.	*Beaver Dam*
Liese, Robert Wright	*Marshfield*
Maslowski, Adolph Leon	*Stevens Point*
Miller, Earle James	*Alton, Ill.*
Moore, Ralph Nicholas	*Streator, Ill.*
Munroe, Harold Wilfred	*Dorchester*
Scobie, Frank George	*Montello*

SCHOOL OF NURSING

Hygiene Course

Bardeen, Helen	*Madison*
Batten, Alice Eileen	*Madison*
Baumgartner, Maxine Alice	*Monroe*
Carney, Mary Ellen	*Kaukauna*
Darling, Mary McNeill	*Milwaukee*
Hartwig, Marcella Belva	*Marion*
Jenson, Gladys Florence	*Madison*
Nelson, Carol Maude	*Cottage Grove*
Rouse, Miriam Edna	*Browntown*
Sanden, Elva Irene	*Rio*
Taylor, Frances Helen	*La Crosse*

Thompson, Ruth Elizabeth	*Beloit*
Trauba, Hattie Bertha	*Marathon*
Watson, Shirley Rachel	*Madison*

Three-Year Course (Graduate Nurse)

Blakely, Luella Belle	*Fond du Lac*
Burkhard, Frances Louise	*Monroe*
Caldwell, Bernice Anna	*Rio*
Calnan, Genevieve Marcia	*Loyal*
Clark, Frances Mary	*Janesville*
Dregne, Cachel	*Viroqua*
Due, Julia Frances Margaret	*Oshkosh*
Feuerstein, Madge Mary	*Milwaukee*
Finkh, Evelyn Louise	*Janesville*
Govier, Grace	*Fennimore*
Hafeman, Irene Marie	*Libertyville, Ill.*
Hagedorn, Dorothy Ruth	*Eden*
Heimann, Lucile A.	*Monroe*
Hessert, Dorothea Marianna	*Plymouth*
Hogenson, Bernice Lillian	*Green Bay*
Hyslop, June Arleen	*La Valle*
Johnson, Marion Cecil	*Milwaukee*
Kull, Helen Edna	*Genoa City*
Lawrie, Violet Grace	*Auburndale*
Lowther, Sarah Elizabeth	*Milton*
Maxon, Charlotte Edna	*Milton*
Nelson, Mildred Thelma	*Doylestown*
Nielsen, Christine Ella	*Manitowoc*
Olsen, Astrid Rebecca	*Beloit*
Sprague, Wilma Lucile	*Oregon*
Vaughan, Marian Katherine	*Madison*
Wilson, Helen Sears	*Madison*

MUSIC

Atkinson, Margaret H.	*Ventura, Cal.*
Baumann, Ursula Kay se	*Racine*
Carlson, Edna Sophie se	*Superior*
Ceaglske, Vivian Clara se	*Merrill*
Chapman, Margaret Olive se	*Garrettsville, Ohio*
Chesak, Dorothy Josephine se	*Athens*
Cross, Eleanor Amorette se	*Waupun*
Curwen, Fern Myrtle se	*Madison*
Dees, Levi Ochler se	*Sheboygan*
Dresen, Mildred Emma se	*Sauk City, Mo.*
Emerson, Ruth W. se	*Milwaukee*
Ernst, Marguerite Agnes se	*St. Paul, Minn.*
Fink, Alice May se	*Benoit, Miss.*
Fink, Margaret Peat se	*Racine*
Fitze, Carrie Roxana	*Beloit*
Gordon, Virginia Louise se	*Madison*
Gray, Mrs. Carrie Semrau	*Sedro Woolley, Wash.*
Haight, Esther Ann se	*Cambridge*
Halverson, Thelma Leonore	*Stanley*
Hering, Marion Marie se	*Lodi*
Keller, Margaret Lillian se	*Baraboo*
Kirk, Mina Mildred se	*Chicago, Ill.*
McKitrick, Kathleen A.	*Naperville, Ill.*
Maercklein, Dorothy	*Ashley, N. D.*
Nourse, Mildred Ella se	*Sextonville*

Palmer, Marion Annette se	*Columbus*
Robinson, William John	*Washburn*
Saecker, Doris Laura se	*Lake Mills*
Schatz, Edna se	*Platteville*
Schee, Eric se	*Westby*
Schneider, Melvin Frederick	*Appleton*
Seifert, Hazel Leone se	*Madison*
Silverman, Edna se	*Marathon City*
Sinaiko, Esther se	*Madison*
Turner, Lenore Elizabeth	*Griswold, Iowa*

JUNIORS

Aaberg, Edgar Lindeman	PreMed	*Greenwood*
Aaron, Ruth	LS	*Chicago, Ill.*
Ackman, Harvey Louis se	LS	*Union, Ill.*
Adams, Josephine Jane	LS	*Madison*
Adams, Martha Frances	LS	*Chariton, Iowa*
Adney, Louise Meade se	LS	*Lebanon, Ind.*
Adrians, Wilbert A.	PreMed	*Green Bay*
Agnew, Ernst Paul se	LS	*Milton Junction*
Ahlrich, William	SJ	*Brooklyn, N. Y.*
Aikins, Ray Carmichael	SC	*Viroqua*
Airis, Frederick A. se	AA	*Eau Claire*
Alberth, Marjorie Lucille	LS	*Walworth*
Alden, Jay Malcolm	SJ	*New York, N. Y.*
Allan, William Wassow	GenC	*Odell, Ill.*
Allen, Burleigh Kimball	LS	*McFarland*
Allen, Dorothy L.	NorC	*Milwaukee*
Allen, Jane se	PhysED	*Memphis, Tenn.*
Allen, Maurin Eleanor se	LS	*Arena*
Allen, Stuart Edmond	LS	*Boscobel*
Allen, Virginia se	PhysEd	*Kansas City, Mo.*
Allin, Robin Nail	PreMed	*Madison*
Alstad, Edgar Martain	LS	*Milwaukee*
Andersen, Frederick E.	SC	*Red Wing, Minn.*
Anderson, Alice Mary	LS	*Black River Falls*
Anderson, Geraldine Adeline	LS	*Madison*
Anderson, Geraldine Bailey	LS	*Madison*
Anderson, Helen Dagmar se	LS	*Rice Lake*
Anderson, John William	LS	*Merrill*
Anderson, Willard Clarence se	PhysEd	*Stambaugh, Mich.*
Anderson, William L.	LS	*Des Moines Iowa*
Annen, Margaret Hattie	LS	*Madison*
Ansfield, Fred Joseph	LSMed	*Milwaukee*
Archie, Monie Bernadine	M	*Waterloo*
Arliskas, William Vincent	SC	*Kenosha*
Armstrong, Hiram Edward	LS	*Pound*
Arneson, Charles Albert	LSMed	*Fargo, N. Dak.*
Arnold, Patricia Katherine	LS	*Duluth, Minn.*
Arnos, Cornelia Dora	LS	*Toledo, Ohio*
Aronin, Hyman	PreMed	*Mayville*
Ashworth, Louise Estelle se	LS	*Milwaukee*
Asnes, Marion Esther	LS	*Quincy, Mass.*
Aten, Eloise	LS	*Burlingame, Cal.*
Atwood, Dorothy Soverhill se	LS	*Janesville*
Auerbach, Esther Miriam	LS	*Escanaba, Mich.*
Austin, Elizabeth Caroline	LS	*Toledo, Ohio*
Austin, Ruby Wane	GenC	*Milan, Mich.*

Austin, Whitley	LS	*Emporia, Kans.*
Averbook, Janice	LS	*Superior*
Babington, Robert John se	PhysEd	*Prairie du Sac*
Back, Colette Mary	LS	*Madison*
Back, John Gunnar	LS	*Escanaba, Mich.*
Backus, Walter Alexander Hamilton	GenC	*Milwaukee*
Backus, William Irving	SC	*Madison*
Bagnall, Lorne Allen	GenC	*Jacksonport*
Bain, Marian Isabelle se	LS	*Gary, Ind.*
Baker, Forest Don	LS	*Tulsa, Okla.*
Baker, Henry Dean	LS	*Milwaukee*
Baker, Monica se	LS	*Fond du Lac*
Ball, Esther Louise	LS	*Rhinelander*
Ballantine, Alice Gail se	LS	*Bloomington*
Ballard, Rea	AA	*Washington, D. C.*
Ballotin, Jane Lee	SJ	*Buffalo, N. Y.*
Ballou, Ray Allen	LS	*Hinsdale, Ill.*
Banen, Abe Theodore	PreMed	*Chisholm, Minn.*
Bannen, James Thomas	LS	*Milwaukee*
Barber, Ruth Henrietta se	LS	*Silver Lake*
Barden, Horace George	SC	*Kenosha*
Bardes, Albert George	LS	*Flushing, N. Y.*
Barker, Polly Hurd	LS	*Winnetka, Ill.*
Barnett, Thomas Jackson	LS	*Chicago, Ill.*
Barry, Lucile Mary	SC	*Madison*
Bartelt, John Abbott	LS	*Fort Atkinson*
Bartholomew, Kenneth Raymond	PreMed	*Dayton, Ohio*
Bates, Marion Eugenia	LS	*Mendota, Ill.*
Batterman, Ruth Katherine se	LS	*Milwaukee*
Baum, Amy Evelyn se	LS	*Janesville*
Baumgart, Frances Louise se	LS	*Danville, Ill.*
Baumgarten, Reva May se	LS	*Elroy*
Beatty, Thomas D	LS	*Birmingham, Ala.*
Beck, Mary Frances	HygC	*Madison*
Becker, Izola Beryl se	LS	*Rhinelander*
Becker, Sarah se	LS	*Milwaukee*
Beckmire, Louis Edward	SC	*Freeport, Ill.*
Beebe, Norman Sylvester	PreMed	*New Richmond*
Beecher, Gilbert	LS	*Kenosha*
Beery, Sam Nelson	LS	*Madison*
Behnke, Henry Herman	LS	*Marinette*
Behr, Samuel	PreMed	*Rockford, Ill.*
Behrens, Norma Caroline	LS	*Sheboygan*
Belk, Miriam Clarice	SJ	*Bismarck, N. Dak.*
Bell, Anne Ellen	LS	*Madison*
Beller, Nathan	LS	*Chicago, Ill.*
Belzer, Henry Morris	SC	*Appleton*
Bennett, Bernard Jasper	LS	*Chippewa Falls*
Bennett, Francis Moffat	SC	*University City, Mo.*
Bennett, Jacob Roderick	SC	*Monroe*
Bennett, William Moffat	SC	*University City, Mo.*
Bensen, Margaret Marie	LS	*Delavan*
Bentley, Alice Irene se	LS	*Madison*
Berend, Albert Carl	LS	*Milwaukee*
Berenson, Charlotte Claire Catherine se	M	*Milwaukee*
Berg, George Raymond se	PhysEd	*Madison*
Berg, Hilma Charlotte	LS	*West Allis*
Berg, Ida Vivian	LS	*Milwaukee*
Berget, Elise Alma	LS	*Argyle*
Bergstrom, Leonard Victor	LSMed	*Port Wing*
Berkanovic, Edward Thomas	LS	*Milwaukee*

Berman, Nathan	LS	*New York, N. Y.*
Bernhard, Cecile Pearl se	PhysEd	*Chicago, Ill.*
Bernstein, Jerome Joseph	LS	*Niagara Falls, N. Y.*
Berry, Lois Fern se	PhysEd	*Toledo, Ohio*
Berryman, Carroll Frank	LS	*Dodgeville*
Berto, George Craig	LS	*Hartland*
Best, Chester James	GenC	*Madison*
Bickel, Florence Albertine	LS	*Reesville*
Bills, George Edward	LS	*Oshkosh*
Bindley, William Franklin	GenC	*Terre Haute, Ind.*
Binkert, Alvin John	SC	*Fort Atkinson*
Bird, Lee Coulthard	LSMed	*Cuba City*
Birnbaum, Selma June	LS	*Chicago, Ill.*
Birr, Phyllis Caroline	LS	*Milwaukee*
Bishop, Lois Elizabeth se	LS	*Madison*
Bjork, Carl Emil	PreMed	*Phillips*
Black, Howard Williams	GenC	*Eau Claire*
Blackbourne, Rosamond se	LS	*Brodhead*
Blackwell, Betty Bartine	LS	*Omaha, Nebr.*
Blank, Roland J.	SC	*Oconto*
Blank, Roy Gerald	LS	*Madison*
Bloodgood, Hugh McLlelan	GenC	*Milwaukee*
Blunt, Carlene Lucretia	LS	*Evanston, Ill.*
Bodoh, Lawrence Lambert	PreMed	*Shiocton*
Boeing, Radford Emil se	LS	*Hustisford*
Boelk, John Paul se	LS	*Warren, Ill.*
Bogost, Meyer Sam	PreMed	*Milwaukee*
Bokok, Elizabeth Higgins se	LS	*Defiance, Ohio*
Bollerud, Florence	LS	*Hollandale*
Bolton, Alice Marie	LS	*Lakewood, Ohio*
Bonk, Armella Lillian se	LS	*Chilton*
Bontly, T. Leon	Genc	*Madison*
Booth, Roscoe George se	GenC	*Mazomanie*
Born, Robert Charles	SC	*Fond du Lac*
Botts, Christine Laura se	LS	*Madison*
Bowen, Elizabeth Katherine	LS	*Cadillac, Mich.*
Boyce, Idelle Edna se	LS	*Brooklyn*
Boyle, Lindsay Redpath	SC	*Marengo, Ill.*
Brady, Charles Joseph	PreMed	*Lake Geneva*
Brady, Elisabeth Ann	SJ	*Eau Claire*
Brady, Tullius	LS	*Brookhaven, Miss.*
Brandt, Arthur Frederick	LS	*River Forest, Ill.*
Brandt, Myron Courtney	PreMed	*Madison*
Bratanic, Sophie Marie se	LS	*Milwaukee*
Bratland, Archie Mendez se	IndEd	*Blair*
Bratlie, Grace Belinda se	LS	*Westby*
Braun, Margaret Marie	LS	*Sheboygan*
Bray, Winifred Alice	LS	*Eau Claire*
Braze, Alexander	LSMed	*Kenosha*
Brennan, Grace Margaret se	LS	*Valders*
Breuer, Hubert se	LS	*Hartford*
Brickson, Elisabeth Andrea se	LS	*Stoughton*
Briggs, Marion Eleanor	LS	*Milwaukee*
Brody, Natalie Ruth	LS	*New York, N. Y.*
Brostram, Maxine Suzanne	LS	*Green Bay*
Brown, Jack Charles	SJ	*Madison*
Brown, Jean Marian	SJ	*Peoria, Ill.*
Brown, Richard Lincoln	GenC	*Hartland*
Bruni, Edwin Karl	SC	*Monroe*
Brunner, Orrin Frederick se	SC	*Madison*
Bryce, Della Jeannette	SJ	*Bloomfield, N. J.*

Bubolz, Gertrude Leone	LS	*Seymour*
Buckley, Rosalie Catharine	LS	*West Bend*
Budlong, Thomas H.	LS	*Chicago, Ill.*
Buelow, Ethel Clarabelle	SJ	*Milwaukee*
Buerck, Theodore Quest	LS	*Louisville, Ky.*
Bundy, Catherine Florence	LS	*St. Joseph, Mo.*
Burchard, Elizabeth Lucinda se	LS	*Fort Atkinson*
Burdick, Lawrence Theodore	SJ	*Edgerton*
Burdick, Ruth	CH	*LaGrange, Ill.*
Burgenske, Emily Ruth	LS	*Verona*
Burgess, Thomas Henry	LS	*LaCrosse*
Burkhead, Wayne Zealous	LS	*Zearing, Iowa*
Burns, Florence Fenton	LS	*Kenosha*
Burton, Clarence Joseph	SC	*Rice Lake*
Buss, Dorothy Cecilia	LS	*Janesville*
Buss, Gertrude Virginia	LS	*Milwaukee*
Butts, R. Freeman, Jr.	CH	*Springfield*
Butz, Alfred Robert	LS	*Milwaukee*
Buyea, Irving Ronald	GenC	*Oneida, N. Y.*
Cable, George Wyatt	GenC	*Davenport, Iowa*
Callender, Mary Louise	LS	*Racine*
Callender, Richard	LS	*Racine*
Cambier, John Clarke	GenC	*Waukesha*
Cameron, Lester Wallace	LS	*LaCrosse*
Campbell, Ethel Mae se	NorC	*Beloit*
Cambpell, Robert William	LS	*Salem, Ohio*
Cannon, Jane Louise	LS	*Milwaukee*
Cape, Ruth Viola se	LS	*Racine*
Capener, Lavilla Marie se	LS	*Baraboo*
Carey, Edwin Blake	LS	*Madison*
Carlson, Beryl Lovida se	CH	*Rhinelander*
Carlson, Edith Augusta	NorC	*Superior*
Carney, William E.	SC	*Shelbyville, Ind.*
Carns, Yvonne Beatrice	LS	*New York, N. Y.*
Carpenter, Lyle John	SC	*Belvidere, Ill.*
Carr, Marjorie Jean	LS	*Oak Park, Ill.*
Carter, Elizabeth Virginia	LS	*Indianapolis, Ind.*
Case, Henrietta Alice	SJ	*Racine*
Cash, Isadore	PreMed	*Milwaukee*
Cassidy, Paul Henry se	AA	*Rockford, Ill.*
Catlin, Mark Seavey, Jr.	LS	*Appleton*
Caulkett, Florin M. se	PhysEd	*Milwaukee*
Cavaliere, Joseph Francis	PreMed	*Brooklyn, N. Y.*
Chalk, Alfred Abraham se	LS	*Syracuse, N. Y.*
Chamberlin, Harlow Lot	LS	*Madison*
Chang, Chang Ying	ChC	*Peiping, China*
Chapman, Gordon Warner	SC	*Tomah*
Charles, Harriet Junia	LS	*Chetek*
Chellberg, Dorothy Elaine	LS	*Chicago, Ill.*
Chideked, Miriam Betty	LS	*Chicago, Ill.*
Chmielinski, Thaddeus Florian	SC	*Chicago, Ill.*
Christen, Mabel Alice	LS	*Waterloo*
Christensen, Clarence Aller	GenC	*Racine*
Christensen, Irving Robert	SC	*Rubicon*
Chu, Francis Yu-on	LS	*Washington, D. C.*
Chudnoff, Sarah	ChC	*Milwaukee*
Chuse, Ellen Mary	LS	*Mattoon, Ill.*
Cirilli, Armond Francis	SJ	*Hurley*
Claas, Dorothy Ruth se	PhysEd	*Cicero, Ill.*
Clapuch, Leizer	PreMed	*New York, N. Y.*
Clark, Elizabeth Rolph	LS	*Duluth, Minn.*

Clark, Josephine Elizabeth	LS	*LaGrange, Ill.*
Clark, Marriot Anderson	ChC	*Janesville*
Clark, Ruth Mae	M	*Waupun*
Clark, Warren Gamble	LS	*Beaver Dam*
Clausen, Elna Mary	LS	*Horicon*
Clausen, Julia Henrietta	LS	*Chicago, Ill.*
Claxton, Wayne LaMere se	IndEd	*DeKalb, Ill.*
Cleary, Catherine Agnes	LS	*Edgerton*
Clikeman, Minor Lamont se	LS	*Rockford, Ill.*
Cline, Frances Amelia	LS	*Oak Park, Ill.*
Cochran, John Knight	LS	*Brule*
Coddington, Carlos	SJ	*Smithland, Ia.*
Coffin, Sybil se	AA	*Phoenix, Ariz.*
Cohen, Ben David	PreMed	*Milwaukee*
Cohen, Lilian Renee	LS	*Milwaukee*
Cohen, Marvin Henry	LS	*Chicago, Ill.*
Cohen, Saul Bernard	LS	*Brooklyn, N. Y.*
Cohn, Allan Loeb	LS	*Madison*
Cohn, Caryl Beatrice	LS	*New York, N. Y.*
Cohn, Janet Ragie	LS	*Milwaukee*
Coit, Grace Virginia	LS	*Beatrice, Nebr.*
Colehour, James Kinney	ChC	*Mount Carroll, Ill.*
Coleman, Nancy	LS	*Springfield, Ill.*
Conety, Mary Meda se	LS	*Atlantic City, N. J.*
Coger, Robert Allan	LS	*Prairie du Sac*
Connelly, Mae se	LS	*Darlington*
Connelly, Marguerite Helen se	LS	*Darlington*
Conner, Watson Manwaring	LS	*New York, N. Y.*
Connolly, Carter David	LS	*Rockford, Ill.*
Conrad, Ruth Eleanore	LS	*Milwaukee*
Conroy, Marie Eunice	LS	*Milwaukee*
Conway, John Edward	LS	*Watertown*
Conway, William James	LS	*Madison*
Cook, Warren Foster	GenC	*Brooklyn, N. Y.*
Coombs, Millicent Mae	LS	*Madison*
Cooney, Patrick Francis	GenC	*New London*
Cooper, Paul Lemen	LS	*Madison*
Copeland, Randall Edward	LS	*Evansville*
Corlies, Irma Jeanne	LS	*East Orange, N. J.*
Cory, Niel Harvey	SC	*Cudahy*
Costello, James Martin	LS	*Janesville*
Cotts, Grace W.	LS	*Menomonie*
Coulson, Mary Catherine se	LS	*Madison*
Coulson, Mona Hickman	LS	*Madison*
Courtright, Ethel	LS	*Chicago, Ill.*
Cramer, Doris Kathleen	LS	*Omaha, Nebr.*
Crandall, Bradford Blanchard	PreMed	*Storrs, Conn.*
Crawshaw, Frederick Story	LS	*Peoria, Ill.*
Creasy, Hazel Celia se	LS	*Monroe*
Cressy, Duane se	GenC	*Chicago, Ill.*
Cullen Robert Killam	LS	*Janesville*
Culver, Homer Thomas	LS	*Eau Claire*
Curtis, Jean	LS	*Americus, Ga.*
Curtis, Lewis James	LS	*LaCrosse*
Cusick, Eileen Mary	LS	*Oregon*
Cuthill, Frances Wilena se	LS	*Sheldon, N. Dak.*
Dahlquist, Raymond	SC	*Marinette*
Daley, Ethel Irene se	LS	*Madison*
Dalton, Mary Winn	LS	*Le Mars, Iowa*
Daniels, Einer Robert	PreMed	*Wauwatosa*
Danielson, Ruth Florence se	AA	*Waupun*

Darbo, Elwyn Grant	LS	*Wauwatosa*
Dassow, Irma Leonore se	LS	*Sheboygan Falls*
Dauer, Margaret Agnes se	M	*Toledo, Ohio*
Davenport, Helen Elizabeth se	LS	*Baraboo*
Davidson, Homer Parker	LS	*Detroit, Mich.*
Davies, Mary Elizabeth	LS	*Madison*
Davies, Samuel Joseph	SC	*Oshkosh*
Davis, Dorothy Elizabeth se	AA	*Madison*
Davis, Gilbert Henry	GenC	*Evanston, Ill.*
Davis, Mary Louise	LS	*Black River Falls*
Davis, Ronald Gage	LS	*Helena, Mont.*
Davis, William McKinley	SC	*Barneveld*
Dean, Frank Karstens	LSMed	*Madison*
Dean, Frederick Everett	SC	*Sandwich, Ill.*
Dean, George Walter	PreMed	*Madison*
Dearholt, John Winslow	LS	*Milwaukee*
DeHaven, Lester Levory se	PhysEd	*Fort Wayne, Ind.*
Dehring, Alfons Ervin	PreMed	*Brownsville*
Demarest, Lorraine Mable se	PhysEd	*Madison*
Dennis, William Gilbert se	GenC	*Lake Beulah*
Denson, Frank Eugene se	AA	*Madison*
Denson, Nell Dowdell	LS	*Birmingham, Ala.*
Dent, La Verda Viola se	LS	*Baden, Pa.*
Dern, John Lowell	LS	*Wausau*
Desmond, Thomas Edward	LS	*Milwaukee*
Despres, Claire Mildred	PreMed	*Chicago, Ill.*
Diederick, Lucia Margaret	LS	*Madison*
Dierker, Alice Adeline se	LS	*Watertown*
Dilley, Chester Van Syckel	GenC	*Union Grove*
Dixon, Eugene Edward	LS	*Marshfield*
Dizon, Leon	SC	*Madison*
Dizon, Stella Rose	M	*Janesville*
Dockhorn, Wayne Adelbert	GenC	*Janesville*
Dodge, Marian Edna	LS	*Wausau*
Doering, Luella Trumley	LS	*Madison*
Donaldson, Harold Burton	ChC	*Shiocton*
Donovan, William Nelson	SC	*Madison*
Dornbrock, Gladys Dorothy	LS	*Milwaukee*
Dorr, John, Jr.	LS	*Cleveland, Ohio*
Dorsch, John Bernard	ChC	*Milwaukee*
Douglass, Celeste Harriet	SJ	*Mukwonago*
Douglass, Norman Ermah	SC	*Madison*
Dowling, John William	CH	*Madison*
Downey, Helen Eloise se	M	*Portage*
Doyle, Omer Nichols se	LS	*Highland*
Drake, Alice se	NorC	*Eau Galle*
Dresser, Frederick William se	LS	*Madison*
Dreyer, Louis Edward se	LS	*Milwaukee*
Driessel, Sylvester Charles	LS	*Slinger*
Drosen, Rosalind Margaret se	LS	*Milwuakee*
Dudley, Robert Guilford	SC	*West Salem*
Duncan, Nancy Tappan	LS	*Columbus, Ohio*
Dunker, Marion Clara	LS	*Milwaukee*
Dunlap, Mary Randall se	AA	*Lima, Ohio*
Dunlop, Ruth Catherine se	LS	*Milwaukee*
Dunphy, Mary Alice se	LS	*Sun Prairie*
Durham, Maurine Jeannette se	LS	*Merom, Ind.*
Duwe, Charles Emil se	LS	*Milwaukee*
Dwinnell, Marion se	LS	*Baraboo*
Dymond, Russell J.	SC	*Belvidere, Ill.*
Dyrud, Ruth Mildred se	AA	*Baraboo*

Eagan, John Keith	LS	*Wautoma*
Eales, John Irving	LS	*Fort Atkinson*
Earney, Adam John	PreMed	*Alma*
Edelstein, Joseph Irving	SJ	*Milwaukee*
Edgerton, Ronald Bryan se	LS	*Beaver Dam*
Edwards, Dorothy H.	LS	*Grosse Pointe, Mich.*
Eggert, Carl William	ChC	*Merrill*
Einstein, Leonard Ralph	LS	*Blairsville, Pa.*
Ekern, Willie Lester	PreMed	*Ettrick*
Elkins, Arthur Eugene	LS	*Racine*
Elliott, Helen Josephine se	LS	*Kalispell, Mont.*
Elliott, Edward Harold	LS	*Floral Park, N. Y.*
Elliott, Helen Marie se	PhysED	*Akron, Ohio*
Elliott, Shirley Jean se	LS	*Chicago, Ill.*
Ellis, Edward Manning	SC	*Milton*
Ellis, Ruth Brown	LS	*Marion, Ohio*
Emery, Marion	LS	*Chicago, Ill.*
Engquist, Dorothy Eleanor	LS	*Chicago, Ill.*
Ericksen, Gladys Elizabeth se	LS	*Kenosha*
Espeseth, Edmund Corneil	GenC	*Eagle River*
Esser, Mildred Faust se	LS	*Janesville*
Etzler, Russell Wilton	SC	*Medford*
Eulberg, Francis Mathias	SJ	*Portage*
Evans, Alice Connell se	GenC	*Waukesha*
Evans, John Vernon	LS	*Kenosha*
Evans, Orrin Bryan	LS	*Baraboo*
Evans, William Henry	GenC	*Madison*
Everman, Henry	ChCC	*Janesville*
Evert, Dorothea se	LS	*Janesville*
Fallis, Robert Edward	PreMed	*Prairie du Chien*
Farley, Eugene Dodson se	LS	*Oshoksh*
Farnam, Katharine Jeanette	LS	*Flint, Mich.*
Farnsworth, Mary Adeline	ChCC	*Madison*
Febock, Stanley William	SC	*Madison*
Feige, Annette Marie se	LS	*West Allis*
Feiker, William Winfield	GenC	*Racine*
Fein, Abe Max	LS	*Milwaukee*
Feingold, Thelma Vivian	LS	*Chicago, Ill.*
Feld, Stanley	LS	*Milwaukee*
Felix, Vivian Bessie se	LS	*Viroqua*
Felker, Margaret Cecelia se	LS	*Kendall*
Fiedler, Hester Emilie	LS	*Milwaukee*
Field, Lillian	LS	*Omaha, Nebr.*
Filler, Elizabeth Louise se	M	*Wonewoc*
Finch, Carroll Herbert se	AA	*Antigo*
Fink, Allen Edmond	PhIV	*Alma*
Fischer, Frank John	PreMed	*Janesville*
Flath, Robert Louis	SC	*Plymouth*
Fleming, George James	SJ	*New York, N. Y.*
Fleming, Lawrence	GenC	*Milwaukee*
Flick, Clinton Peter	GenC	*Kenosha*
Flynn, Francis Austin	LSMed	*Madison*
Focareto, Nicholas Anthony se	PhysEd	*Ashtabula, Ohio*
Foeller, Katherine Elizabeth se	SJ	*Green Bay*
Fontaine, Roger Charles se	LS	*Milwaukee*
Fontaine, Virginia Elizabeth se	LS	*Sheboygan*
Forbis, Harold Nealy	LS	*Albany, Mo.*
Forester, Richard Moss	LS	*Wauwatosa*
Forman, Abraham Judson	PreMed	*Milwaukee*
Forster, Lawrence William	LS	*River Forest, Ill.*
Foss, Edward Lehmann	LSMed	*Oconomowoc*

Foster, Chester William	SC	*Milwaukee*
Fountain, Mary Elizabeth	LS	*Milwaukee*
Francis, Cuthbert Schrader	GenC	*Milwaukee*
Franseen, Arnold Leonard	LS	*Frederic*
Freeman, Marcia Myra	LS	*Chicago, Ill.*
Freeman, Stephen Edward	ChC	*Racine*
Frick, William Donald	LS	*Chicago, Ill.*
Frieden, Frances Mary	LS	*Madison*
Friedl, Edward Clarence	ChC	*Antigo*
Friedland, Louis	LS	*Patterson, N. J.*
Friedlen, Helen Myra	LS	*Chicago, Ill.*
Friedman, Bernard	PreMed	*Racine*
Friedman, Harry Isaac	LS	*St. Louis, Mo.*
Friedrich, Rudolph	LS	*Henderson, Ky.*
Friend, Joseph Harold	LS	*Cleveland, Ohio*
Fries, Carl, Jr.	SC	*Mazomanie*
Frisch, Arthur Wain	PreMed	*Portage*
Fritz, Adele se	LS	*Feldbach Styria, Austria*
Fritz, Lorraine Gladys	LS	*Chippewa Falls*
Fritz, Marion Theodore	LS	*Milwaukee*
Fritze, Edna Vera	LS	*Chicago, Ill.*
Frusher, Alicia se	AA	*Madison*
Fry, Kermit Dennis	PreMed	*Ashland*
Fry, Viola Mary	LS	*Freeport, Ill.*
Fuldner, Henry John	SC	*Milwaukee*
Furber, Beatrice Irene	LS	*LaCrosse*
Gafke, Loren Albert	GenC	*Jefferson*
Gager, Walter Frederick	PreMed	*Oconto*
Gajewski, Edwin Walter se	LS	*Norwalk*
Gale, John Douglas	LS	*Webster Groves, Mo.*
Gallagher, Ann Margaret se	LS	*Madison*
Gallagher, Eileen Norton se	LS	*Quarry*
Gallagher, James Cyrill	GenC	*Green Bay*
Gallagher, Leslie Waterman	LS	*Superior*
Gannett, Grace Elwood se	LS	*Stanley*
Gantenbein, Milton Edward	GenC	*La Crosse*
Ganzlin, Carl	LS	*Sauk City*
Gaulke, Nora Margaret se	LS	*Janesville*
Gauntt, Earl Vincent	LS	*Milwaukee*
Gay, Shirley se	LS	*San Antonio, Tex.*
Gehl, Gregory Nicholas	SC	*Hartford*
Gehle, Theodore William	SC	*Milwaukee*
Gehrke, Harry B.	SC	*Watertown*
German, Kempton Lotel se	PreMed	*Eau Claire*
Gremer, Jane Katherine	ChC	*Grandon*
Gessmer, Amy Agnes	SC	*Freeport, Ill.*
Gessner, Anna Lauretta	SC	*Freeport, Ill.*
Gesteland, Neva Jean se	LS	*Janesville*
Getschow, Alice Sophia	LS	*Appleton*
Getz, Charles Albert	ChC	*Savanna, Ill.*
Gianunzio, Marion Anthony se	PhysEd	*Hurley*
Gibson, Lillian Rebecca se	PhysEd	*New Lisbon*
Gier, Mildred Evangeline	LS	*Mount Horeb*
Gifford, Marjorie se	AA	*Dallas, Tex.*
Gilbert, Georgia Florence se	LS	*Madison*
Gilbert, Ralph Edgar	LS	*Osseo*
Gilbert, Ralph Herman	PreMed	*Madison*
Gilbertson, La Vern Andrew	ChC	*LaCrosse*
Gilkey, George Robert	SC	*Merrill*
Gillies, Donald Francis	LS	*Glen Flora*
Gilsdorf, Cecelia Mary	LS	*Elkhart Lake*

Gitchell, Helen Elizabeth se	LS	*Green Bay*
Givens, Marian Patterson	LS	*Tarentum, Pa.*
Gleason, Mary Martha	LS	*Wichita, Kans.*
Godfrey, Julius Parr	SJ	*Lodi*
Godin, Dorothy se	LS	*Little Falls, N. Y.*
Goetz, John Frederick	SC	*Madison*
Goff, Betty Ione se	LS	*Waukesha*
Goldberg, David Dorman	LS	*Beloit*
Goldman, Benjamin Lawrence	GenC	*Milwaukee*
Goldsmith, Max Eliott	LS	*Milwaukee*
Gollin, Frank	LSMed	*Milwaukee*
Goodfriend, Ruth Adele	LS	*Cleveland Heights, Ohio*
Goodman, Ida	PhysEd	*Oconto*
Goodman, Jacob	LS	*Oconto*
Goodsitt, Harry	SC	*Milwaukee*
Gordon, Irving Marion	LS	*Stevens Point*
Gordon, Mildred Lillian	GenC	*Chicago, Ill.*
Gordon, William	LS	*Cleveland, Ohio*
Gorenstein, Harvey	LS	*Milwaukee*
Gottfried, Fred	CH	*Milwaukee*
Gottschalk, Louis Christian	LS	*Lake Mills*
Gough, James Joseph	PreMed	*Fond du Lac*
Graebel, Frederick Richter	LS	*Wausau*
Graebel, Richard Paul	LS	*Wausau*
Graham, George Thomas, Jr.	SC	*Oshkosh*
Grant, Dorothy Charlotte se	AA	*Wauwatosa*
Grebel, John David	PreMed	*Randolph*
Greenlee, Mary Annice se	PhysEd	*Kahoka, Mo.*
Gregerson, Frederick	LS	*Elk Mound*
Greiling, Ruth Eleanor	GenC	*Green Bay*
Griesbach, Dorothea Joy	SJ	*Prairie du Chien*
Griffiths, Ruth Whiting se	AA	*Grand Rapids, Mich.*
Griggs, Ruth	LS	*Chevy Chase, Md.*
Grimm, Elizabeth se	PhysEd	*Green Bay*
Groshong, Elizabeth Mary	LS	*Madison*
Grosvenor, Julie Haugan	LS	*Chicago, Ill.*
Gulick, Margaret Josephine	LS	*Chicago, Ill.*
Gumberts, Helen Florence	LS	*Evansville, Ind.*
Gunderson, Helen Lucille	SC	*Portage*
Gundlach, Violet Magdalena se	LS	*Madison*
Gundry, Charles F.	LS	*Shullsburg*
Gutheim, Frederick Albert	LS	*Washington, D. C.*
Haas, William	PreMed	*Madison*
Hadden, Stuart Robertson	ChC	*Milton Junction*
Hager, Clara Gertrude se	LS	*Baraboo*
Hahn, Blanche Esther	LS	*Delafield*
Hahn, Ethel Anna se	LS	*Salem*
Haight, Edward Allen	LS	*Rockford, Ill.*
Haight, Virginia Love se	LS	*Glenco, Ill.*
Haines, Evelyn V. se	AA	*Jacksonville, Fla.*
Hall, Dorothy Ellen se	M	*New Albany, Ind.*
Hall, George Augustus	PreMed	*Nicaragua, Central America*
Hallett, Wayne Millard	LS	*Watertown*
Hamer, Marjorie Carolyn se	LS	*Kansas City, Mo.*
Hamilton, Roger Alexander	SC	*Clinton*
Hamilton, William Lincoln	SC	*Charles City, Iowa*
Hampel, George Henry se	LS	*Milwaukee*
Hancock, Laurence Foster	SC	*Fall River*
Handford, Phyllis May se	M	*Madison*
Handley, Geraldine Dunbar	LS	*Chicago, Ill.*
Hanks, Lucien Mason, Jr.	LS	*Madison*

Hansen, Gertrude Marion	LS	*LaCrosse*
Hansen, Percy Leander	ChC	*Madison*
Hansman, Dorothy Helen se	PhysEd	*Sedalia, Mo.*
Hanson, Earl Claire	SC	*Rio*
Hanson, Philip Charles	SC	*Milwaukee*
Harb, Ray Orla	SC	*Madison*
Harbeck, Rosalind Margot se	LS	*Milwaukee*
Hard, Elizabeth Jackson	LS	*Saginaw, Mich.*
Harding, Helen David	LS	*San Antonio, Tex.*
Hardman, Lucile Charlotte se	AA	*Sounth Bend, Ind.*
Hardy, Verona Daniel se	PhysEd	*Gulfport, Miss.*
Harman, Hazel A. se	LS	*Mount Horeb*
Harms, George Melvin	LSMed	*Oshkosh*
Harris, Marvin Donald	PreMed	*Superior*
Harris, Milton George	LS	*Milwaukee*
Harrison, Virginia Jane	LS	*Flint, Mich.*
Harrop, Donald Leroy se	LS	*Arena*
Hartig, Arnold William	SC	*Reedsburg*
Hartsburg, Hazel	LS	*North Aurora, Ill.*
Harvey, Richard Guille	LS	*Racine*
Hass, Myra Marielle se	LS	*New Holstein*
Hastings, Donald Wilson	PreMed	*Madison*
Haswell, Lyman Clayton	GenC	*Madison*
Hathaway, Lenore Bell	M	*Spring Green*
Haugen, Ernest Kenneth	ChCC	*Washburn*
Haussman, Alice Mae se	LS	*Milwaukee*
Havey, Irma Ingebor se	LS	*Deerfield*
Hawes, Josephine Elizabeth	PreMed	*Madison*
Hawley, Clifford se	SC	*Delavan*
Hayes, Corneiluis Benedict	LS	*Mooseheart, Ill.*
Haywood, Elizabeth se	LS	*Arcadia, Nebr.*
Heath, Samuel Richard	LS	*Fond du Lac*
Hedback, William Deming	LSMed	*Cumberland*
Helgeson, Oliver Harlan se	AA	*Viroqua*
Helmer, Hugh Joslin	SC	*Pontiac, Mich.*
Henderson, Hazel Pricilla	PreMed	*Madison*
Henke, William Louis	SC	*Janesville*
Henn, Paul Hayes	GenC	*Racine*
Henrici, Mary Elizabeth	LS	*Pittsburgh, Pa.*
Henshue, Myrtle Flora	SJ	*Madison*
Herb, Raymond George	LS	*Navarino*
Herlin, Stanley Morton	LS	*Rockford, Ill.*
Herman, Marie Louise se	LS	*Thorp*
Hewes, Fred Pooler	SC	*Beloit*
Heyda, Robert Charles	SJ	*Winnetka, Ill.*
Hibbard, Richard Edward	LS	*Eau Claire*
Hibberd, James Farquhar	LS	*Richmond, Ind.*
Hibberd, Lestra	LS	*Richmond, Ind.*
Hickok, John Hillman	LS	*Evanston, Ill.*
Hickox, Roger Whitney	LS	*Virginia, Minn.*
High, Ralph Leslie	PreMed	*Fond du Lac*
Hildebrand, Daniel Morris	GenC	*Omro*
Hildebrand, William Bennett	PreMed	*Huntington, Ind.*
Hilgendorf, Marie Ella se	LS	*Watertown*
Hill, James Hoyt	LS	*Baraboo*
Hill, Maurice Earl	PreMed	*Chicago, Ill.*
Hippenmeyer, Charles Owen	SJ	*Stoughton*
Hirsch, Leon Bernard	CH	*Medford*
Hirsh, Morris Henry	CH	*Chicago, Ill.*
Hoard, Lorenda Prudence se	LS	*Sharon*
Hobbins, Harriet Ethel	LS	*Oak Park, Ill.*

Hobbins, Shirley Fuller	LS	*Madison*
Hocking, John Henry	LS	*Rockford, Ill.*
Hoebel, Mary Marcia	LS	*Madison*
Hoeffler, Phillip Carl	SC	*Milwaukee*
Hoffman, Joan Anita se	LS	*Mishicot*
Hoffman, Paula Rose	ChCC	*Le Mars, Iowa*
Hohman, Harold August	GenC	*Wausau*
Hollingsworth, Lyman Burgess	GenC	*Wausau*
Holloway, Claude Stenholm	GenC	*Chicago, Ill.*
Holloway, Ronald Nichols	LS	*Lincoln, Ill.*
Holm, Henry Joseph	LS	*Madison*
Holman, Eva se	LS	*Sheboygan*
Holmes, Charles Hurd	LS	*Chicago, Ill.*
Holscher, Marjorie Edith se	M	*McFarland*
Holst, Edward Demin se	LS	*Milwaukee*
Hootkin, Nathan se	LS	*Sheboygan*
Hopkins, Elizabeth Dale	LS	*Pittsburgh, Pa.*
Horton, M. Bernice se	LS	*Wauwatosa*
Horton, Robert Russel	LS	*Milwaukee*
Horvath, Lillian Anne	SC	*Chicago, Ill.*
Housner, Richard Edward	PreMed	*Cazenovia*
Howe, Wilbur Adelbert se	AA	*Beloit*
Howland, Helen Betty	LS	*Reedsburg*
Hoyer, Marguerite Louise	LS	*Milwaukee*
Hubbard, Dorothy Nancy	LS	*Oconomowoc*
Hubbard, Juliet Wood se	LS	*Kalamazoo, Mich.*
Hubbell, Owen Orris	LS	*Elmwood, Ill.*
Huber, Bertha Louise se	LS	*Superior*
Huber, Edmund Leonard	PreMed	*Milwaukee*
Huerth, Clara Frances se	AA	*Madison*
Huffman, Myrtle Viola se	LS	*Woodstock, Ill.*
Hughes, Charles Francis	SC	*Dodgeville*
Hughes, Clarence Emery	NorC	*Charles City, Iowa*
Hughes, Edward Everett John L.	SC	*Virginia, Minn.*
Huibregtse, Willard George	LSMed	*Sheboygan*
Hundt, August George	LS	*Whitehall*
Hunter, Helen	LS	*St. Louis, Mo.*
Hurd, Robert Willis se	PhysEd	*New Lisbon*
Hurlbutt, Jane Ann	LS	*Oshkosh*
Hurst, Dorothy Owen se	LS	*Hutsonville, Ill.*
Hurtgen, Joseph Cyril	SC	*LaCrosse*
Hussa, Melba Juanita se	LS	*Bangor*
Husting, Francis Edward	SC	*Madison*
Huth, Dorothy Lillian	LS	*Watertown*
Hvam, Russell Gerhard	SC	*Madison*
Hyland, John Joseph	LS	*Edgerton*
Hyslop, Ruth	LS	*Madison*
Icke, Paul William	LS	*Madison*
Ihde, Aaron John	ChC	*Neenah*
Ingebrigtson, Clarence Elliott	SJ	*Duluth, Minn.*
Ingenhutt, Catherine Weeks	ChC	*Minneapolis, Minn.*
Ingersoll, Barbara Mary	LS	*Madison*
Isenstein, Beatrice Ann	LS	*Chicago, Ill.*
Ives, Alice Asenath se	PhysEd	*Topeka Kans.*
Ivey, Donovan Albert	ChC	*LaCrosse*
Jackson, Catherine Elizabeth	LS	*Pelham Manor, N. Y.*
Jackson, Josephine Alice	LS	*Madison*
Jackson, Reginald Henry	PreMed	*Madison*
Jacobs, Libby Beatrice	LS	*St. Louis, Mo.*
Jacobson, Celia	LS	*New York, N. Y.*
Jacobson, Clarence Charles	LS	*Milwaukee*

Jacobson, Hannah se	LS	*Whitefish Bay*
Jaeger, Marion Fredericka	SJ	*Columbus, Ohio*
Jaeschke, Walter Edward	SC	*Milwaukee*
Jaeschke, Walter Henry	PreMed	*Milwaukee*
Jaffe, Henry L.	PreMed	*Chicago, Ill.*
Jaffe, Theresa Helene	LS	*Chicago, Ill.*
James, Phyllis Irene	SJ	*Chicago, Ill.*
Janeck, Geraldine Margaret se	LS	*Madison*
Janett, Melvina Margaret	SJ	*Fountain City*
Jardine, Jean Quay	SJ	*Grand Rapids, Mich.*
Jenkins, Margaret Griffths se	LS	*Mansfield, Ohio*
Jennings, Harry Edmond, Jr.	GenC	*Newcastle, Ind.*
Jenson, Dale Walters	LS	*River Falls*
Jentz, Martha Emelia se	LS	*Appleton*
Jirtle, Clarence R. se	SC	*Algoma*
Johnson, Clifford C.	SJ	*Holmen*
Johnson, Dorothy Haldes	LS	*Stoughton*
Johnson, Florence Elizabeth se	LS	*Tulsa, Okla.*
Johnson, Frances Hyde	LS	*Madison*
Johnson, Gladys Agnes	SJ	*Villa Park, Ill.*
Johnson, Gladys Marie se	PhysEd	*Spirit*
Johnson, Margaret Spencer	LS	*Milwaukee*
Johnson, Neal Justin	ChC	*Wittenberg*
Johnson, Roland Francis	SC	*Selby, S. Dak.*
Johnson, Russell Theodore	SC	*Racine*
Jones, Anne Mary	LS	*Dodgeville*
Jones, Daniel Willard	GenC	*Milwaukee*
Jones, Edna Craig se	NorC	*Portage*
Jones, Mary Lucille se	M	*Madison*
Jones, Robert Everett	LS	*Milwaukee*
Jones, Robert Sackett	GenC	*Appleton*
Jones, Warren Milton	SC	*Racine*
Jones, William Frederick	LS	*Racine*
Jorgensen, Eva Dorothea se	LS	*Waupaca*
Kafer, Helen Harriet	LS	*Jefferson*
Kaftan, Elizabeth Josephine se	LS	*Green Bay*
Kahl, William C.	LS	*Mount Horeb*
Kaiser, Rosalyn Juliet se	LS	*Racine*
Kalman, Jack Hyman se	LS	*Milwaukee*
Kamnetz, Alta Ellen	LS	*Hancock*
Kaplan, Carl J.	SC	*Cleveland, Ohio*
Karl, Max Henry	LS	*Milwaukee*
Kaste, Lillian Elsie se	SC	*Fountain City*
Katz, Alex Martin	PreMed	*Milwaukee*
Kaudy, Robert McAllister	GenC	*Wisconsin Rapids*
Kaufman, Jacob	LSMed	*Brooklyn, N. Y.*
Kauwertz, Helene Marie	LS	*Milwaukee*
Keefer, Stella Louise se	LS	*Fort Wayne, Ind.*
Kehler, Elizabeth Bryan	LS	*Madison*
Kehr, Lohna Jordan	LS	*Milwaukee*
Keith, Susan	LS	*Evanston, Ill.*
Kelley, Florella se	M	*Marathon, Ia.*
Kelly, Marion Josephine	LS	*Chicago, Ill.*
Kelsey, George Edgar	GenC	*Rice Lake*
Kempton, Judson	LS	*Madison*
Kendall, Anne Louise se	AA	*Rockford, Ill.*
Kendall, Elizabeth Carpenter	LS	*Detroit, Mich.*
Kennedy, Mary Virginia	LS	*Chicago, Ill.*
Kennedy, Viola Blair se	AA	*Watertown*
Kernan, Phillip Donald	LSMed	*Belleville*
Kerr, Irene Beverly se	AA	*Madison*

Kerr, Isabel	LS	*Ashland*
Kesmodel, William Augustus	SJ	*Washington, D. C.*
Ketelaar, William Bernard se	LS	*Delavan*
Keyes, Thelma Marguerita se	AA	*Kenosha*
Keyser, Caldwell Robert	LS	*Milwaukee*
Khoury, Nicholas	LSMed	*Appleton*
Kienitz, John Fabien se	AA	*Milwaukee*
Kierzkowski, Casimir Victor	LSMed	*Cudahy*
King, Earl Eugene	GenC	*Brooklyn*
King, Florence M. se	LS	*Merrillan*
Kingsbury, Doris May se	HygC	*Antigo*
Kircher, Everett John se	LS	*Sheboygan*
Kirk, William Franklin	SJ	*Kansas City, Mo.*
Kissel, Elizabeth Jane	LS	*Hartford*
Kittleson, James Lowell	GenC	*Madison*
Kitzman, Rudolph	PreMed	*Big Falls*
Kjellgren, Stanley Eugene	GenC	*Rockford, Ill.*
Klein, Donald Lester	LS	*Madison*
Klein, Margaret Ruth	LS	*Waunakee*
Klein, Milton Harvey	LS	*Cleveland, Ohio*
Kleinhans, Margaret Clare	LS	*Milwaukee*
Kletzien, Gretchen E.	LSAdSp	*New Holstein*
Klindt, Dorothy Augusta se	GenC	*Cassville*
Klose, Leroy Gustavous se	M	*Two Rivers*
Kluckhohn, Jane	CH	*Le Mars, Iowa*
Klug, Elmer Frank	ChC	*Milwaukee*
Knoell, Eldon Edward se	LS	*Milwaukee*
Knudsen, Oran Milton	LS	*Ephraim, Utah*
Knudson, George Willard	PreMed	*Madison*
Koegel, Inez Eleanor se	LS	*Milwaukee*
Kollmeyer, Gladys Louise	HygC	*Hillpoint*
Krauskopf, Konrad Bates	LS	*Madison*
Krchma, Ludwig Charles	ChC	*Casco*
Kribben, Bertram D.	LS	*Chicago, Ill.*
Krieg, Richard William	LS	*Burlington, Iowa*
Kriel, Jessie Farlow	GenC	*Madison*
Krings, Cornelia Margaret se	LS	*Madison*
Krogh, Raymond P.	LS	*Flaxton, N. Dak.*
Kroncke, Sadie Mae	PreMed	*Poynette*
Kronheim, Daniel	LS	*Cleveland Heights, Ohio*
Kronshage, Julie	LS	*Milwaukee*
Krueger, Dorothy Clara	LS	*Milwaukee*
Krueger, Dorothy Magdalene se	LS	*Cudahy*
Krueger, Elinor Marie se	LS	*Milwaukee*
Krueger, Marion Marcella	LS	*Oshkosh*
von Krug, Ella Faulds	LS	*Madison*
Krug, Esther Rachel	SC	*Madison*
Krumholz, Dorothy Margaret	SJ	*Arcadia*
Kruse, Elizabeth Louise	AA	*Madison*
Kuehn, Francis H.	LS	*Fairwater*
Kuehn, Neal Gordon	LS	*Janesville*
Kuelling, Marion Esther	LS	*Mineral Point*
Kugler, Harold Anton	SC	*Manitowoc*
Kurtenacker, Karl Stephen	GenC	*Madison*
Kutchera, Irene se	PhysEd	*Wauwatosa*
Lack, Bessie Margaret se	LS	*Orchard, Iowa*
Lafferty, Mary Lee	ChC	*Dallas, Tex.*
Laikin, George Joe	LS	*Milwaukee*
Laird, Emily Drum se	LS	*Greensburg, Pa.*
Lamb, Lillian Virginia	LS	*Minneapolis, Minn.*
Lambeck, Dorothy Marie se	CH	*Milwaukee*

Lambert, Mary Angeline se	LS	*Portage*
LaMore, Chester Harmon	LS	*Madison*
Lamoreaux, Elizabeth Amelee se	LS	*Muskegon, Mich.*
Lampert, Chester Graham	LS	*Wheaton, Ill.*
Lamphere, Roby Randolph	LS	*Madison*
Lane, Charles Edward	LS	*Elk Basin, Wyo.*
Laney, Howard John	PreMed	*Alma Center*
Lange, Anna May se	LS	*Delavan*
Langenbach, Gretchen Louise	LS	*La Crosse*
Langlois, Carol Elizabeth se	LS	*Milwaukee*
Laper, Ethel La Vern	LS	*Milwaukee*
Lappala, Risto Peter	LS	*Virginia, Minn.*
Lappin, Gerald David	LS	*Milwaukee*
Larsen, Fred N.	LS	*Chicago, Ill.*
Larsen, Harry Elmore	GenC	*Superior*
Larson, Donald Julius	LS	*McFarland*
Larson, Elizabeth	LS	*Madison*
Larson, Janet Borghild se	LS	*Whitehall*
Larson, Raymond Oberlin se	GenC	*Eleva*
Last, Walter Herbert	LS	*Sheboygan*
Lattimer, Edwin Frank H.	SC	*Wausau*
Laub, Cecilia Elizabeth se	LS	*Cleveland, Ohio*
Laufenberg, Raymond P.	GenC	*Avoca*
Lauter, Vita se	LS	*Brooklyn, N. Y.*
Lazarus, Lucien	LS	*Cincinnati, Ohio*
Leach, John Edward	SJ	*Burlington*
Lecher, Eugene Paul	LS	*Milwaukee*
LeComte, Juliette Celene	LS	*Madison*
Lee, Bernice Thelma se	M	*Waupun*
Lee, George E.	LS	*Superior*
Lee, John Herman	PreMed	*Madison*
Lee, Mildred Roberta se	PhysEd	*Belleville, N. J.*
Lehman, Celeste Leon	LS	*Jackson, Miss.*
Lehman, Wallace Harvey	LS	*Pontiac, Mich.*
Lehman, Walter Hans	SC	*South Milwaukee*
Leisk, James Henry	SC	*Milwaukee*
Lemm, Carl Walter	LS	*Prairie du Sac*
Leonardson, Bertel	LS	*Marinette*
Lepp, Samuel Robert	LS	*Kenosha*
Leveroos, Edward Herbert	LSMed	*Superior*
Levin, Max	LS	*Milwaukee*
Levin, Robert Fink	LS	*Pittsburgh, Pa.*
Levine, Beatrice Love se	LS	*Washington, D. C.*
Levine, Lillian	SJ	*Milwaukee*
Levine, Maurice Waldemar	GenC	*Milwaukee*
Levings, Charles Sanford, Jr.	LS	*Paris, Ill.*
Levitas, Louise	SJ	*Newark, N. J.*
Levitt, Babbette Jane	LS	*Minneapolis, Minn.*
Levy, Miriam Sylvia	ChC	*New York, N. Y.*
Lewis, Betty Olive	LS	*Madison*
Lewis, Les	ChCC	*Madison*
Lewis, Mary Elizabeth se	LS	*St. Paul, Minn.*
Ley, Frank Joseph	GenC	*Woodlawn, Pa.*
Libby, Constance	LS	*Berlin, N. H.*
Lid, Erling Sigvald	LS	*Marinette*
Lidbeck, Lyle William	PreMed	*Madison*
Liebenberg, Mary Averill se	LS	*Madison*
Liedel, Marjory Lorenz se	LS	*New Glarus*
Liethen, Alois Joseph	ChCC	*Appleton*
Lighty, Paul Elliot	GenC	*Madison*
Lincoln, Marjorie Kathleen	LS	*Detroit, Mich.*

Lindberg, Alice Emilie se	LS	*West Allis*
Ling, Chun Chi	LS	*Washington, D. C.*
Linsley, Earl Curtis	LS	*Madison*
Lipman, Anne Helene	LS	*Antigo*
Litel, Edmund John	LS	*Oregon*
Liu, Chen Tung	LS	*Peking, China*
Livingston, Roscoe Norman	SC	*Livingston*
Lockwood, Charlotte Daniels	SJ	*Jackson, Mich.*
Lofy, Jerome John	LS	*South Milwaukee*
Logan, Ruth Elizabeth se	LS	*Madison*
Loomis, Eleanor Gertrude	LS	*Kenosha*
Loomis, Marian Rachel se	LS	*Kilbourn*
Loomis, Richard John	SC	*Fargo, N. Dak.*
Loomis, Vivian Jeanette se	SJ	*Racine*
Lorch, Morris	LS	*New York, N. Y.*
Loscher, Caroline Regina se	PhysEd	*Oshkosh*
Lott, Spencer L.	SC	*Downers Grove, Ill.*
Louis, Ben Joe	ChC	*Sheboygan*
Lowe, La Verne Erroll	LS	*Indianola, Iowa*
Lucas, Leland Jack	GenC	*Phillips*
Luck, Harry Stuart	SJ	*Madison*
Luecker, Milton Edwin	GenC	*Brillion*
Luell, Jane Irene se	LS	*Milwaukee*
Lukats, Mary Antoinette	SC	*Gary, Ind.*
Lumpkin, William Wallace	CH	*Madison*
Lunde, Carl Mandt	ChC	*Madison*
Lunde, Einar Harold	LS	*Oak Park, Ill.*
Lupfer, Josephine Elizabeth se	M	*Granite City, Ill.*
Lusby, William Ernest	LS	*Chicago, Ill.*
Lussier, Anne Margaret se	LS	*Wausau*
Lutz, Eleanor se	PhysEd	*Ramsey, N. J.*
Lutz, Frank A.	LS	*Chicago, Ill.*
Lyon, Louise Nanette se	AA	*Glenwood, Iowa*
McBain, Frederica Eileen Elizabeth	LS	*Madison*
McBeath, Neil Russell	GenC	*Milwaukee*
McBrady, Ruth	LS	*Evanston, Ill.*
McCabe, John O'Donnell	PreMed	*Milwaukee*
McCabe, Maurice Thomas	LS	*Milwaukee*
McCarter, William Craig	GenC	*Madison*
McClure, Margaret se	PhysEd	*Toledo, Ohio*
McCoy, Louise	LS	*Wilmette, Ill.*
McCullough, Eleanor	LS	*Wauwatosa*
McDaniel, Maude M.	GenC	*Boscobel*
McDaniel, William K.	GenC	*Darlington*
McDermand, Thomas Lionel	LS	*Manitowoc*
McDonell, Eva Rose	LS	*Winona, Minn.*
McDonough, Francis Edward	PreMed	*Madison*
McFadden, James Iyron	LS	*Kaukauna*
McGowan, Elsa Knies se	AA	*Milwuakee*
McGrath, Adrian Paul	M	*Highland*
MacGregor, Robert Noble se	GenC	*Kent, Wash.*
McKellar, Beatrice Ann	LS	*Madison*
McKinley, Mary Ellen	SJ	*Dodgeville*
MacKowski, James Eugene	PreMed	*Beaver Dam*
McLaughlin, Henry Hummel	LS	*Chicago, Ill.*
McLeod, Kenneth Michael	LS	*Rice Lake*
McLoud, Elbert Saxton	ChC	*Springfield, Ill.*
McNeil, Margaret	LS	*Virginia, Minn.*
Maas, Lenhart, Harold	ChC	*Colby*
Madden, Mary Elizabeth	LS	*Madison*
Madden, Mary Lorraine se	LS	*Rochester, Minn.*

Maddox, Frances Eugenia	LS	*Tulsa, Okla.*
Madsen, Esther Laura se	LS	*Madison*
Maier, Elizabeth Margaret	SJ	*Antigo*
Malec, John Peter	PreMed	*Madison*
Malkin, Ben	SJ	*Winnipeg, Manitoba, Can.*
Mallory, Murrell Newton	SC	*Freeport, Ill.*
Mallow, Harvey Gustaf	PreMed	*Watertown*
Maloney, Morris Emmet	GenC	*Ladysmith*
Manegold, Margaret Votteler	LS	*Waukesha*
Mann, Ferdinand Julius	GenC	*Milwaukee*
Mansky, Joe	PhIV	*Beloit*
Manzer, Henry Maxwell	LSLaw	*Madison*
Mapes, Lloyd Archie	LS	*Madison*
Marcus, Irene Fay	LS	*Superior*
Markson, Leonard Simpson	LS	*Milwaukee*
Markus, Lauretta	LS	*Keewatin, Minn.*
Marsack, Bernadine Vivian	LS	*Sheboygan*
Marsh, Edward Thomas	LS	*Waupun*
Marsh, Harold Charles	GenC	*Warwood, W. Va.*
Marshall, Cecelia Agnes	LS	*Fond du Lac*
Marston, Louise Carol	SJ	*Appleton*
Martin, Harriett Jane	LS	*Middletown, Ohio*
Martin, Helen Louise	SJ	*River Forest, Ill.*
Martin, Norma Marie	SC	*Huron, S. Dak.*
Masden, Virginia Beatrice se	LS	*Milwaukee*
Mason, Robert Walter	PreMde	*Marshfield*
Mathews, Thomas Jennings	PreMed	*Madison*
Matthews, Donald Clyde	GenC	*Elizabeth, Ill.*
Matusewic, Joe Vincent	IndEd	*Hurley*
Maurer, Helen Stengle	LS	*Antigo*
Max, Moses	LS	*Sheboygan*
Maxcy, Arthur Crane	PreMed	*Washburn*
Mayer, George Frank	LSMed	*Milwaukee*
Mayer, Margaret W. se	LS	*Watertown*
Mayer, Paul George	LS	*Milwaukee*
Mead, Louise	LS	*Madison*
Meadows, Carl	PreMed	*Chicago, Ill.*
Medley, Basil Ross	ChC	*Milwaukee*
Meek, Albert N.	CH	*Madison*
Meggett, Clyde Alexander	GenC	*Eau Claire*
Mehan, Harriet	LS	*Chicago, Ill.*
Merritt, William Mayer se	PhysEd	*Lake Geneva*
Metcalfe, William Henry	SJ	*Portage la Prairie, Can.*
Metz, Arthur George	SC	*Madison*
Metz, Orlando Thorp	LS	*Springfield, Ill.*
Meyer, Audrey Ellen	SJ	*Madison*
Meyer, Clifford John Frederick	LS	*Plain*
Meyer, Margaret M.	LS	*Appleton*
Meyer, Robert Joseph	SJ	*Prairie du Sac*
Michalek, Barbara Jane	LS	*Chicago Heights, Ill.*
Miller, Chester Olin	LS	*Antigo*
Miller, Herman L.	SC	*Iron River, Mich.*
Miller, Merle Evelyn E. se	LS	*Green Bay*
Miller, Velma Lenore	LS	*Galva, Ill.*
Millies, Arthur Herman se	LS	*Milwaukee*
Mills, Harlan Elmer	SC	*Flint, Mich*
Mills, Lois Susie	SJ	*Dallas, Tex.*
Minash, Samuel Henry	PreMed	*Milwaukee*
Minch, Bernhard Walter	GenC	*Jackson, Mich.*
Minch, Elaine Catherine se	GenC	*Belleville*
Minnie, Arthur Alexander	LS	*Eau Claire*

Mitchell, Elmer Albert	GenC	*Milwaukee*
Mitchell, Orva Lorraine se	PhysEd	*Cedar Rapids, Iowa*
Moberly, Russell Louis se	M	*Hot Springs, S. Dak.*
Modie, Margaret Lois	LS	*Madison*
Mahs, Fred Edward	PreMed	*Madison*
Montgomery, Howard Emerson	LS	*Fort Wayne, Ind.*
Moor, Harold Franklin	GenC	*Columbus*
Moore, Lyman Sweet	GenC	*Oak Park, Ill.*
Moreland, Claryce Margaret	GenC	*Hayward*
Moren, Robert William	SC	*Freeport, Ill.*
Morgan, Lyman Hubert	LS	*Wausaukee*
Morgan, Ruth Pearce	PreMed	*Galva, Ill.*
Morner, John Arnold, Jr.	SC	*Prentice*
Morris, Elian Jessie se	LS	*Cambria*
Morrissey, Kathleen Mary	SJ	*Racine*
Morrow, Malcolm	GenC	*North Milwaukee*
Morse, Carol Corinne	LS	*Racine*
Mortensen, Mary Jane Seaman se	AA	*Milwaukee*
Mosakowski, Louis John	SC	*South Milwaukee*
Mosby, Ellsworth Carter se	LS	*Madison*
Moseley, Forrest McKenzie	SC	*Cando, N. Dak.*
Mosley, Jomary Katharine	LS	*Paterson, N. J.*
Mothershead, John Swain	LS	*Burns, Ore.*
Muchin, Jacob	LS	*Manitowoc*
Muehl, Fenton Philip	SC	*Seymour*
Mueller, Addison Archibald	LS	*Milwaukee*
Mueller, Dorothy Margaret	LS	*Milwaukee*
Mueller, Herbert John	LS	*Wauwatosa*
Mueller, Lucille I. se	LS	*West Allis*
Munger, Earle Augustus, Jr.	SC	*Ashland*
Munn, George Edward	LS	*Superoir*
Munro, James Allen, Jr.	GenC	*New Haven, Conn.*
Murphy, Margaret Friel se	LS	*Madison*
Musser, Marc James	PreMed	*Madison*
Myers, Ellen	LS	*Racine*
Naber, Herbert Robert	ChC	*Mayville*
Naeser, Charles Rudolph	ChC	*Janesville*
Nagy, Rudolph	ChC	*Antigo*
Narotsky, David Samuel	SC	*Marinette*
Nash, Philleo	LS	*Wisconsin Rapids*
Nash, Susan	LS	*Wisconsin Rapids*
Nashban, Sam Left	LS	*Milwaukee*
Nasierowski, Adam Edmund	LS	*New Castle, Pa.*
Nathan, Edith	ChC	*Milwaukee*
Nathenson, Rose Tillie se	LS	*Madison*
Naujoks, Florence	LS	*Milwaukee*
Naumburg, Elizabeth Herzfeld	LS	*New York, N. Y.*
Nebel, Paul John	ChCC	*Oshkosh*
Nebel, Stanley Barnard	LS	*Madison*
Needham, Kathleen	LS	*Oak Park, Ill.*
Nehs, Robert Procter	LS	*Wauwatosa*
Nelson, Catherine Marshall se	LS	*Red Wing, Minn.*
Nelson, Evelyn Bernice	LS	*Chicago, Ill.*
Nelson, Kenford Revere	GenC	*Racine*
Nelson, Leonard Edward	LS	*Madison*
Nequette, Allen C.	GenC	*Janesville*
Neu, Victor Frederick	LS	*West Allis*
Neuenfeldt, Frederick William	LS	*Chicago, Ill.*
Newell, Marquis Vernon	LS	*Evanston, Ill.*
Newman, Margaret Elizabeth	LS	*Chicago, Ill.*
Nicewarner, Owen Edward	LS	*Michigan City, Ind.*

Niebauer, Henry Joseph, Jr.	PreMed	*Phillips*
Niebuhr, Harlan Bristol	SC	*Fall Creek*
Niemann, Carl G.	ChC	*St. Louis, Mo.*
Niss, Gretchen Helen se	LS	*Milwaukee*
Nissenbaum, James	LSMed	*Milwaukee*
Noie, Norbert Francis	GenC	*Kaukauna*
Nolte, Dexter, George	PreMed	*Antigo*
North, Marshall	LS	*Madison*
Nudelman, Benjamin	LS	*Columbus*
Nuernberg, Roy Frederick	SC	*Wausau*
Nulk, Joan	LS	*Falls City, Nebr.*
Oberdeck, Louis Ernest	SC	*Edgerton*
Oberndorfer, Robert Henry	LS	*Milwaukee*
O'Brien, Winifred	LS	*Milwaukee*
Ochsner, Alice Constance	LS	*Chicago, Ill.*
Ocock, Robert Charles	PreMed	*Milwaukee*
O'Connell, Joseph Dean	SJ	*Madison*
O'Connell, Kenneth John	LS	*Bayfield*
Odegard, Zola Ethlyn	LS	*Merrill*
O'Gara, William James	LS	*Spooner*
Olbrich, Wilson Magregor	LS	*Madison*
Olds, Edward Bosworth	LS	*Okayama, Japan*
Olsen, Ralph	ChCC	*Chicago, Ill.*
Olson, Frank Rudolph se	LS	*Hurley*
Olson, Paul Joseph se	GenC	*Mount Horeb*
Oman, Tury se	PhysEd	*Chisholm, Minn.*
O'Neil, Philip John	LS	*Chicago, Ill.*
O'Neill, Robert Byrne	LS	*Madison*
O'Neill, Verner Carl se	IndEd	*Nekoosa*
Onsgard, Claire Lewis	SC	*Stoughton*
Osgood, Elizabeth Terrace	LS	*Waukegan, Ill.*
O'Sheridan, Francis Philip	SJ	*Madison*
Ostman, Karin Maria se	PhysEd	*La Salle, Ill.*
Ostrowsky, Reubin	PreMed	*Brooklyn, N. Y.*
Ottenstein, Jack Conrad	LS	*Milwaukee*
Otterson, Irene Margaret	LS	*Deer Park*
Overton, George W.	ChC	*Oshkosh*
Owen, Marjory Catherine se	LS	*Eau Claire*
Owens, Edward John	GenC	*Milwaukee*
Packer, Margaret Avilla se	LS	*Madison*
Padway, Rhoda se	LS	*Milwaukee*
Paff, Marjorie Alice	LS	*Wausau*
Page, Edward Jay Willard	GenC	*Elkhorn*
Page, Henry Burnham	LS	*Oconomowoc*
Pagel, Charles Gary	SJ	*Brandon*
Paley, Mollie	M	*Madison*
Palmer, Alice Elizabeth	LS	*Madison*
Parker, Cedric Milford	SJ	*Fennimore*
Parker, George, Jr.	PreMed	*Peoria, Ill.*
Parkin, Margaret Arline se	PhysEd	*Madison*
Patterson, Herschel Halvard	SJ	*Pontiac, Ill.*
Patterson, Kathryn Lillian se	AA	*Milwaukee*
Patterson, Lester Robert	GenC	*Evansville*
Paullin, Theodore William	LS	*Green Bay*
Paulson, Carl Olynn se	LS	*Argyle*
Paulson, Lilas Vera	GenC	*Neillsville*
Pavlick, William Henry	SC	*Mosinee*
Payton, Rosemond Marie se	LS	*Fort Scott, Kans.*
Pearce, Billy Mansfield	LS	*Milwaukee*
Pegg, Catherine Browne	SJ	*Chicago, Ill.*
Penn, Abraham Sam	PhIV	*Sheboygan*

Perkins, Robert Donald	PreMed	*Hartford*
Perlman, Frank	LSMed	*Lake Mills*
Perlson, Edwarde Frederic	GenC	*Milwaukee*
Perlson, Joe	PreMed	*Milwaukee*
Perry, Donald Danfarth	LS	*Madison*
Peterson, Alden Gehardt	LS	*Westby*
Peterson, Gladys Eleanor se	LS	*Hollandale*
Peterson, Lawrence Levern	GenC	*Osceola*
Petrie, Helen Marie se	LS	*Milwaukee*
Pfleger William	SC	*Milwaukee*
Phenicie, Rachel Louise	SC	*Green Bay*
Phinney, Elizabeth Jean se	LS	*Detroit, Mich.*
Piehl, Eldred Gertrude se	LS	*Williams Bay*
Pierce, Avice Darlene se	LS	*Woodstock, Ill.*
Pilcher, Mercer Elizabeth se	LS	*Macon, Ga.*
Pilon, Oliver Jerome	PreMed	*Fond du Lac*
Pinkerton, William Moss	SJ	*Oshkosh*
Pitcairn, Mary Elizabeth se	LS	*Tarentum, Pa.*
Platz, Frederick Baker	GenC	*Racine*
Platz, Marjorie Katherine	LS	*LaCrosse*
Plavnick, Max	M	*Racine*
Pollock, Harry	M	*Madison*
Pologe, Minna	LS	*Brooklyn, N. Y.*
Pooley, Norman	M	*Mohawk, Mich.*
Pope, Gertrude Meldrum	LS	*Ottawa, Kans.*
Popp, Elsie Irene se	PhysEd	*Haven, Kans.*
Popp, Harold R.	PhIV	*Hutchinson, Minn.*
Porter, Benjamin Taylor	GenC	*Chicago, Ill.*
Porter, Harry Allen	LS	*Highland Park, Ill.*
Porter, James Dunlap	LS	*Milwaukee*
Porter, Robert Henry	GenC	*Merrillan*
Poser, John Falk	PreMed	*Columbus*
Posner, Herman Jerome	LS	*Milwaukee*
Potlitzer, Mildred Hortense	LS	*Joplin, Mo.*
Potter, M. Ivan	SC	*South Milwaukee*
Powell, Ezra Harry	GenC	*Elkhorn*
Power, William Whiteman	LS	*Madison*
Powers, Florence Anne se	PhysEd	*Elizabeth, N. J.*
Price, Kate Rathbun	LS	*Milwaukee*
Priem, Leona se	LS	*Watertown*
Probasco, Lewis William	LS	*Bloomington, Ill.*
Prusow, Oscar Max	PreMed	*Marshfield*
Pulver, Mary Jane	LS	*Chicago, Ill.*
Purtell, Regina Ann se	AA	*Milwaukee*
Quilty, Charlotte Clarice se	LS	*Madison*
Quinlan, Emma Marie se	LS	*Neillsville*
Quinlan, Mida Frances se	LS	*Neillsville*
Quirino, Carlos Felix	SJ	*Madison*
Rabin, Charlotte Marian se	CH	*Milwaukee*
Rabinovitz, Max David	LS	*Milwaukee*
Race, Irene Lee	PreMed	*Denver, Colo.*
Radder, Roland William	SJ	*Kaukauna*
Radley, Jane Converse	LS	*Milwaukee*
Radley, John	LS	*Peoria, Ill.*
Raettig, Hazen Lloyd	GenC	*Antigo*
Rahlfs, Virginia Rose	LS	*Chicago, Ill.*
Ralston, Florence Elizabeth se	M	*Beloit*
Randall, Virginia Bell	LS	*Cincinnati, Ohio*
Randell, Mark	SJ	*Madison*
Rank, James Henry	LS	*Milwaukee*
Rasmussen, Irma Georgene	LS	*Omaha, Nebr.*

Rather, Wendell Burton	PreMed	*Green Bay*
Rauschenberger, Charles Louis	SC	*Elgin, Ill.*
Rawson, Kenneth Oscar	LS	*Woodstock, Ill.*
Ray, Irwin	LS	*Chicago, Ill.*
Raymond, Hugh G. se	PhysEd	*Altoona*
Reddeman, Elizabeth Alice	PreMed	*Wauwatosa*
Reese, Rosette	LS	*Reedsburg*
Reeves, Blanche se	AA	*New York, N. Y.*
Rehwald, Charles Arthur	GenC	*Racine*
Reichert, Edwin Clark	LS	*Duluth, Minn.*
Reilly, James Philip	GenC.	*Madison*
Reinke, George William	LS	*Milwaukee*
Reis, Louis Norman	PreMed	*Odebolt, Iowa*
Reithmeier, Edwin Reinhold	GenC	*Doylestown*
Renshaw, Josephine Elizabeth se	PhysEd	*Pittsburgh, Pa.*
Rentz, Frank Albert	LS	*Madison*
Reynolds, Robert Ewing	GenC	*Allentown, Pa.*
Reynolds, Wilhelmina	LS	*Philadelphia, Pa.*
Rhode, Mary Beulah se	PhysEd	*Kenosha*
Rhodes, Katherine Ellen	M	*Estherville, Iowa*
Rice, Marshall Allan	LS Law	*Milwaukee*
Richardson, Jean Lewis	LS	*Muskegon, Mich.*
Richman, Lawrence Stanley	LS	*Brooklyn, N. Y.*
Riedner, Joe K. Hart	PhIV	*Madison*
Rietveld, Frances	SC	*Madison*
Riley, Daniel Bernard	LS	*San Diego, Cal.*
Ripsom, Ralph Warren	GenC	*Milwaukee*
Risjord, Isabelle Josephine se	LS	*Ashland*
Ristow, Walter William se	LS	*La Crosse*
Ritchie, Robert	GenC	*Beaver, Penn.*
Ritholz, Adolph	LS	*Chicago, Ill.*
Robb, Eleanor Masters	LS	*Chariton, Iowa*
Roberts, Everett Anderson	SJ	*Horicon*
Roberts, Helen Perry	LS	*Lakewood, Ohio*
Roberts, Irving Eugene	SC	*Madison*
Roberts, Jean Mildred se	NorC	*Bloomington*
Roberts, Justus Bulkley	PreMed	*Brimfield, Ill.*
Robinson, Norma Evelyn	LS	*Kenosha*
Robinson, Olive Leone se	LS	*Oregon, Ill.*
Roddick, Harrison Arnold	GenC	*Platteville*
Roden, Mary Lydia	LS	*Madison*
Roe, Karen Jeanette	LS	*Stoughton*
Roemer, Milton Aaron	PreMed	*Rubicon*
Roemheld, Anita Marie de Campi	SJ	*Chicago, Ill.*
Roethe, Donald Byron	SJ	*Fennimore*
Rohrer, Roslyn Romulus	LS	*Alma*
Rome, Raymond Lester	GenC	*Chicago, Ill.*
Roraff, Leonard Francis	LS	*LaCrosse*
Rose, Ella Margaret se	LS	*Racine*
Rose, Myron F.	LS	*Milwaukee*
Rosecky, Helen Jane	LS	*Milwaukee*
Rosenbaum, Maxwell Richard	LS	*Ventnor, N. J.*
Rosenblatt, Lea G.	LS	*Omaha, Nebr.*
Rosenbluth, Constance Hilda	LS	*New York, N. Y.*
Rosenfeld, Sidney Shia	PreMed	*Milwaukee*
Rosenthal, Ivan	GenC	*New York, N. Y.*
Rosenthal, Norma Dorothy se	LS	*West Allis*
Roth, Adeline Marguerite	SJ	*Madison*
Rothermel, Elizabeth Emma se	M	*Viroqua*
Rottman, Gilbert James se	PhysEd	*Milwaukee*
Rouse, Angela Anita	SJ	*Benton Harbor, Mich.*

Rowan, De Vere William	SC	*Madison*
Rowe, Ruth Marian	LS	*Grass Lake, Mich.*
Rowe, William Jasper	LS	*Rochester*
Rowell, Elizabeth Louise	LS	*West Lafayette, Ind.*
Rubenstein, Edna se	LS	*Gilbert, Minn.*
Rubin, William Fred	SC	*Fennimore*
Rubinstein, Ruth Esther	LS	*Milwaukee*
Rubnitz, Leon Harlan	PreMed	*Madison*
Runke, Ruth Jane	LS	*Merrill*
Runkel, Helen Margaret	LS	*Port Washington*
Ruskin, Louis	SC	*Madison*
Russell, Kenneth Melville	SJ	*LaCrosse*
Rutter, Bernice Elizabeth se	AA	*Madison*
Ryan, Mary Elizabeth se	LS	*Milwaukee*
Satchjen, Josephine Alice se	LS	*Boscobel*
Sadler, Lloyd Stanley	ChC	*Janesville*
Safford, Helen Marie	LS	*Troy, Ohio*
Sage, Georgianna R. se	LS	*Port Edwards*
Sagebiel, Hanna Luise	LS	*Hannover, Germany*
Saggio, Charles	LS	*Milwaukee*
Sampson, Robert Carnell	LS	*Stoughton*
Sanborn, Mary Whitney	LS	*Madison*
Sandgren, Ralph Edward	SC	*Nashotah*
Sandke, Robert Julius	SC	*Chicago, Ill.*
Sands, Priscilla Elizabeth se	LS	*Reedsburg*
Sanner, Dorothy Alene	SJ	*West Allis*
Sapiro, Howard B.	SC	*Milwaukee*
Sawyer, Lorraine Desiree se	LS	*Hartford*
Scadron, D. Irwin	LS	*Chicago, Ill.*
Scannell, Elnora Mary	ChC	*Warren, Ill.*
Scarseth, Alice Lenora se	NorC	*Madison*
Schaffter, Rudolph Klippel	LS	*Evanston, Ill.*
Schalk, Eleanor Augusta	LS	*Berlin*
Schalk, Jeanette Clara	LS	*Berlin*
Shansberg, Alden Jerome	SJ	*Blair*
Schapiro, Herman se	LS	*Chicago, Ill.*
Schatz, Renata Marteena	LS	*Oshkosh*
Scheer, Casimir Francis	SJ	*Kenosha*
Scheer, John Winchester	PreMed	*Sheboygan*
Scheffe, Henry	LS	*New York, N. Y.*
Schempf, Foster John	GenC	*Watertown*
Schenkenberg, Grace Eleanor	PreMed	*Racine*
Scher, Helen Ruth se	LS	*Newark, N. J.*
Schlacks, Grace Barbara	LS	*Chicago, Ill.*
Schlueter, Ethel	LS	*Milwaukee*
Schmerein, Kathryn Barbara	LS	*Neenah*
Schmidt, Jacob	SC	*Milwaukee*
Schmidtbauer, Betty	LS	*Milwaukee*
Schmidtill, Robert Charles	LS	*Wauwatosa*
Schmidtmann, John Bump	GenC	*Manitowoc*
Schmiedeke, Irene Opal se	NorC	*Clintonville*
Schneider, Elsa se	PhysEd	*Calumet City, Ill.*
Schneider, Harold Otto	PreMed	*Monroe*
Schneider, Helen Marie se	PhysEd	*Beloit*
Schoenfeld, Katherine se	LS	*Toledo, Ohio*
Schott, Dorothy Roth	LS	*Highland, Ill.*
Schott, Ruth Eugenia	LS	*Leavenworth, Kans.*
Schroeder, Claude Frank	PreMed	*Two Rivers*
Schroeder, Jeanette Treadway	LS	*Racine*
Schroeder, John Knosker	PreMed	*Oshkosh*
Schroeder, Vernon Clarion	ChC	*Rib Lake*

Schubert, Viola Elsie se	LS	*Watertown*
Schuehle, Robert George	GenC	*Oconomowoc*
Schulman, Albert A.	LS	*Chicago, Ill.*
Schumacher, Marcella Patritia	LS	*Waunakee*
Schuster, Peter	GenC	*Madison*
Schute, Adrian Ernest	SC	*Chippewa Falls*
Schwarting, Albert Clarence	LS	*De Pere*
Schwartz, Dorothy Evelyn	LS	*River Forest, Ill.*
Schwartz, Isadore I.	PreMed	*Manitowoc*
Schwefel, Lorraine J.	LS	*Milwaukee*
Scott, Eleanor	PreMed	*Philadelphia, Pa.*
Searle, Margaret Louise	LS	*Lead, S. Dak.*
Seering, Blanche Marie	M	*Summit Lake*
Seiler, Carl Albert	LS	*La Crosse*
Sershon, Willard John se	LS	*Manitowoc*
Severance, Clare M. Henry	AA	*Madison*
Seymour, Richard Maynard	LS	*Milwaukee*
Shane, Andrew C.	LS	*Milwaukee*
Sharp, Sarah Louise	NorC	*Madison*
Shattuck, Dorothy Geneva se	LS	*Madison*
Sherman, Stanley Braymer	LS	*Racine*
Shiels, John Hofstatter se	LS	*Baraboo*
Shimkus, Alexander Joseph	PreMed	*Chicago, Ill.*
Shuck, Gladys Mary	LS	*Livingston, Mont.*
Shumway, Kenneth George	SC	*Milton*
Shutkin, Dorothy Marguerite	LS	*Milwaukee*
Siegel, Howard Woolfan	LS	*Eveleth, Minn.*
Siegel, Maurice Borah	LS	*Milwaukee*
Siegel, William Emil se	LS	*Milwaukee*
Siegrist, Ward Francis	GenC	*Akron, Ohio*
Siekert, Delta Margaret	LS	*Madison*
Siggelko, Alice Caroline	LS	*Madison*
Sigman, David	LS	*Two Rivers*
Silver, Robert Mandel	SJ	*Hutchinson, Kans.*
Simon, Mildred Mary-Anne	SJ	*Sturgeon Bay*
Simonson, Kenneth Roland	SC	*Wautoma*
Simpson, Dorothea Louise se	LS	*Norwich, Conn.*
Sinaiko, Edwin Sidney	LSMed	*Madison*
Sinaiko, Russell Philip	PreMed	*Madison*
Sinykin, Gordon	LS	*Madison*
Sizer, Thomas Carroll	LS	*Madison*
Skewis, John Edward	PreMed	*Shullsburg*
Skuldt, Hjalmer Al Sander se	AA	*Madison*
Skupniewitz, Joseph Leo	LS	*Beaver Dam*
Sladen, Joseph Alton	LS	*Wichita, Kans.*
Slavin, Max N.	LS	*Cleveland, Ohio*
Slightam, Beryl Alberta se	LS	*Madison*
Smith, Betty Ward	LS	*Superior*
Smith, Catherine Lois	LS	*Wauwatosa*
Smith, Holley Johnston	LS	*East Cleveland, Ohio*
Smith, John Russell	PreMed	*Lake Mills*
Smith, Katharine Pelton se	LS	*Madison*
Smith, Louise Poad	LS	*Greenville, Miss.*
Smith, Marvin Charles	LS	*Dodgeville*
Smith, Neil Horton	ChCC	*Mondovi*
Smith, Nellie Gibbons	LS	*Madison*
Smith, Ronald Ernest	SC	*Fennimore*
Smith, Ruth Eleanor se	LS	*Waupaca*
Smock, Jack Walter	LS	*Des Moines, Iowa*
Snydacker, Daniel	PreMed	*Kenilworth, Ill.*
Snyder, Jesse Richard	GenC	*Chicago, Ill.*

Snyder, Virginia Mary	LS	*Janesville*
Solomon, Emmet Gamaliel	LS	*Omaha, Nebr.*
Solso, Clarence Otto	ChC	*Madison*
Solsrud, George	LS	*Tony*
Sorensen, Marion Antoinette se	LS	*Green Bay*
Sorensen, Stanis Eunice	LS	*Green Bay*
Sorenson, Evelyn Marguerite	SJ	*Ottawa, Kans.*
Sorenson, William Harris	GenC	*Woodstock, Ill.*
Spaulding, Louise Susan	LS	*Chicago, Ill.*
Speich, Harry Alfred	LS	*Greenwood*
Spelman, Charlton Herbert	SC	*Oak Park, Ill.*
Spencer, Arnold John	SC	*Madison*
Spencer, Richard Thomas	LS	*Chicago, Ill.*
Spencer-Green, Ormond George	LS	*Madison*
Spoentgen, Hugo Calvin	SC	*Madison*
Stangel, Dorothy Frances	LS	*Manitowoc*
Stanton, Renetta Dudley	M	*Beloit*
Stare, Frederick John	ChC	*Columbus*
Staron, John Mathew	PreMed	*Milwaukee*
Stauss, Dorothy Olive se	LS	*Racine*
Stearns, Eleanor	SJ	*Rochester, Minn.*
Steenis, Orithia Clark se	LS	*Madison*
Stein, James A.	LS	*Eveleth, Minn.*
Stein, Paul	LS	*Brooklyn, N. Y.*
Steinbaugh, Harold Nicholson	LS	*Pontiac, Mich.*
Steinhoff, Raymond Jacob	GenC	*Platteville*
Stephens, Arthur Robinson	LS	*Madison*
Stephens, Fredrick Jacobs	SC	*Livingston*
Sterling, Jane	LS	*Cleveland Heights, Ohio*
Stern, Herbert Spencer	LS	*Philadelphia, Pa.*
Stewart, George Robert	LS	*Chicago, Ill.*
Stibbs, John Henry	LS	*Chicago, Ill.*
Stock, Walter Lincoln	SC	*Madison*
Storck, Herbert Philip se	LS	*Madison*
Storms, William Wallace	LS	*Racine*
Stott, Fern Wehrle	GenC	*Evansville*
Stott, Howard Ransom	SC	*Evansville*
Stratman, Helen Othelia	LS	*Dodgeville*
Stratton, Jane Elizabeth	LS	*Milwaukee*
Streeter, Charles	GenC	*Wichita, Kans.*
Stricker, Marvin Frank	PreMed	*Middleton*
Stringfellow, Walter Albert, Jr.	LS	*Evanston, Ill.*
Stroebel, Charles Frederick	LS	*Lake Mills*
Strong, Dorothy Keziah, se	PhysEd	*Oberlin, Ohio*
Strub, Ernest Paul, Jr.	LS	*Manitowoc*
Struckmeyer, Esther Louise	SJ	*Phoenix, Ariz.*
Stuart, Alice May se	PhysEd	*Cincinnati, Ohio*
Sudranski, Herbert F.	LSMed	*Indianapolis, Ind.*
Sullivan, Robert B., Jr	GenC	*Oak Park, Ill.*
Sullivan, Ruth Ann se	LS	*Kenosha*
Sun, Ching E.	ChC	*Peiping, China*
Sverdlin, Abe Al	LSMed	*Milwaukee*
Swanson, Maribea	LS	*Des Moines, Iowa*
Swanson, Melvin Warden	SC	*Glenwood City*
Swarthout, Gordon Falk	LS	*Kenosha*
Sweet, Anne Lois	LS	*Madison*
Sweet, Dorothy se	LS	*Madison*
Sweet, Sam James	LSMed	*Milwaukee*
Swerdloff, Dorothy	GenC	*Madison*
Swiggum, Esther Adele se	LS	*Westby*
Tarnutzer, Andrew David	SJ	*Sheboygan*

Taylor, Edward Joseph	LS	*Chicago, Ill.*
Telfer, Millicent	LS	*Little Falls, N. J.*
Temkin, Mark Marcus	LSMed	*Beaver Dam*
Teper, Samuel	LS	*Milwaukee*
Terrill, Monna Evelyn se	LS	*Dalton*
Teschner, Richard Rewa	LS	*Milwaukee*
Teska, Edward Frank se	AA	*Chicago, Ill.*
Thalacker, Arbie O.	LS	*Wisconsin Rapids*
Theis, Clarence George	SC	*Stevens Point*
Theleen, Janet Louise	LS	*Kenosha*
Thomas, Amelia Franscina	LS	*Lancaster, Ohio*
Thomas, Frederick Hendrix se	LS	*Washington, D. C.*
Thomas, Marjorie La Force	LS	*Madison*
Thompson, Bernice Lucille se	LS	*East Chicago, Ind.*
Thompson, Dorothy Jean se	LS	*Chippewa Falls*
Thompson, Edith Elizabeth	SJ	*Chicago, Ill.*
Thomsen, Arthur John se	PhysEd	*Milwaukee*
Thomson, Edith Margaret Catherine	LS	*Ashland*
Thomson, Isabel Varley	LS	*Englewood, N. J.*
Thoreson, Gordon Duane	M	*Ashland*
Thorne, Dorothy Katherine se	LS	*Woodstock, Ill.*
Thorson, Austin Trevor	SC	*Wittenberg*
Tibbals, Adeline Mary se	LS	*Chicago, Ill.*
Timmerman, Anita Caroline	LS	*McGregor, Iowa*
Tingle, Duncan Barnett	LS	*Evanston, Ill.*
Todd, Marcia McBrayer	SC	*Houston, Tex.*
Tonkonogy, Sam	LS	*Milwaukee*
Tormey, Thomas William	PreMed	*Madison*
Torrance, John Malcolm	LS	*LaCrosse*
Towle, Bert Roy	SC	*Madison*
Trapani, Michael Henry	LSMed	*Brooklyn, N. Y.*
Traube, Arthur	GenC	*Des Plaines, Ill.*
Treat, Harriet Parker	LS	*Monroe*
Triggs, Bernard Joseph	PreMed	*Winona, Minn.*
Trowbridge, Frederick Hoyt	LS	*Chicago, Ill.*
Truckenbrod, Anne Elizabeth	LS	*Mendota, Ill.*
Tschudy, Herbert Otto	SJ	*Monroe*
Tufts, John Franklin	LS	*Cedar Rapids, Iowa*
Tulledge, Charles Alvin	PreMed	*Oakfield*
Turner, Albert Bailey	LS	*Chicago, Ill.*
Twohig, Laura May se	LS	*St. Cloud*
Uehling, Harold Fredrich	GenC	*Lowell*
Ullman, Janet	LS	*New York, N. Y.*
Urban, Earl Henry	LS	*Wauwatosa*
Uretzky, Samuel	PreMed	*Milwaukee*
Vallier, Mary Esther se	LS	*Milwaukee*
Van Arsdale, Betty Constance	LS	*Chicago, Ill.*
Van Doren, James Howard	GenC	*Birnamwood*
Van Natta, Vail Allen	LS	*Chicago, Ill.*
Van Orden, Alice Louise	LS	*Houghton, Mich.*
Van Roo, Ruth Eleanor se	GenC	*Milwaukee*
Van Wolkenten, Raymond Vincent	LS	*New York, N. Y.*
Varian, Donald Storm	GenC	*Hastings-on-Hudson, N. Y.*
Vass, Laurence Coolidge	GenC	*Des Moines, Iowa*
Vatkin, Harry Aaron	PreMed	*Milwaukee*
Vea, Kathrine Buchtrup se	M	*Stoughton*
Veazey, Lotta Teeple	M	*Avilla, Ind.*
Vergeront, Helen Munson se	LS	*Viroqua*
Vetter, Herman Beigler	LS	*Stevens Point*
Vicars, William Michael	LS	*Pontiac, Ill.*
Vietmeyer, Viola Catherine se	LS	*Milwaukee*

Vinson, John Bryant	LS	*Milwaukee*
Vogel, Glen Farnum se	LS	*Shiocton*
Vold, Evangeline Olive se	LS	*Whitehall*
Vollrath, Robert Philip	LS	*Sheboygan*
Vraney, Alvin George	SJ	*Manitowoc*
Waddell, Ralph F.	PreMed	*Baraboo*
Wahlberg, Gilbert George	SC	*Kenosha*
Walden, Charles Howard	SC	*Helena*
Walter, Evelyn Kay se	LS	*West Bend*
Walters, Kenneth Neville	LS	*Evansville*
Walton, William Edwin	LS	*Jacksonville, Ill.*
Wandrey, Raymond William	GenC	*Forest Park, Ill.*
Wandrey, Walter William	SC	*Milwaukee*
Warner, Hermine Jeanette	LS	*Buffalo, N. Y.*
Warren, R. Beatrice	LS	*Rapid City, S. Dak.*
Waskow, William Lorenz	LS	*Milwaukee*
Waterman, Pauline Jane	LS	*Sycamore, Ill.*
Watrous, James Scales se	AA	*Madison*
Watrous, Norma Edith	SJ	*Lake Bluff, Ill.*
Watson, William Cunningham, Jr.	GenC	*Chattanooga, Tenn.*
Weber, Henry Christopher	LS	*New Holstein*
Webster, Dorothy Jane	HygC	*Milwaukee*
Week, Dorothy Grace se	AA	*Wausau*
Wegner, Herbert Ferdinand	SC	*Brandon*
Weinstein, Miriam Laverne	LS	*Chicago, Ill.*
Weisman, Sylvia se	LS	*Brooklyn, N. Y.*
Weisskopf, Leonard Harold	LS	*Chicago, Ill.*
Welk, Helen Gertrude se	LS	*Columbus*
Wendt, Wilbur Ervin	PreMed	*Reeseville*
Werba, Caroline Louise	SJ	*Milwaukee*
Werner, Frederick Twiton se	LS	*Mount Horeb*
Wesendonk, George Hubert	GenC	*Edgerton*
Wessel Olaf Sodring	SC	*Madison*
Wheeler, Mary Alice se	LS	*Milwaukee*
Whitaker, Mary Elizabeth	LS	*Madison*
White, Cecil F.	SJ	*Aurora, Ill.*
White, Dorothy se	PhysEd	*Dallas, Tex.*
White, Eleanor Daley se	AA	*Wilmette, Ill.*
White, Ralph Victor	ChC	*LaCrosse*
Whiteside, Catherine Jewell	LS	*Allendale, Ill.*
Whittet, Margaret Mary se	LS	*Edgerton*
Wick Charles Albert	PreMed	*Marinette*
Wiepking, Estelle	SJ	*Milwaukee*
Wiersig, Ruth Emily	LS	*Chicago, Ill.*
Wiesner, Francis Arthur	SC	*Wausau*
Wigonitz, Julia	LS	*Madison*
Wilgus, Sidney Dean	PreMed	*Rockford, Ill.*
Wilke, Melvin John	LS	*South Milwaukee*
Will, Bruce Wallace	PreMed	*Bertha, Minn.*
Willenson, Harold Maurice	SC	*Milwaukee*
Williams, Charles Walton	GenC	*Sparta*
Williams, Edwin Carl	PreMed	*Antigo*
Wiliams, Eunice	NorC	*Wales*
Wiliams, Fred Charles se	PhysEd	*Antigo*
Williams, Fred Tuttle	ChC	*Salt Lake City, Utah*
Williams, Keith	SC	*Juda*
Williams, Thomas Malcolm	LS	*Madison*
Willock, David Wallace se	AA	*Chicago, Ill.*
Wilson, Eleanor Hazel se	LS	*Madison*
Wilson, Elizabeth Winifred se	LS	*Green Bay*
Wilson, Ella McGrew	LS	*Houston, Tex.*

Wilson, Eugene England	GenC	*Virden, Ill.*
Wilson, Hollis Everett se	AA	*Ephraim*
Wilson, J. Robert	ChCC	*Madison*
Wilson, Leonard Richard	GenC	*Superior*
Wilson, Lewis Garrard	LS	*Menomonie*
Wimmer, James William se	PhysEd	*Kilbourn*
Wine, Virginia Mae	LS	*Kansas City, Mo.*
Wing, Mary Alice	LS	*Adrian, Mich.*
Winger, Marvin Frederick	LS	*Walnut, Ill.*
Winger, Maud Almira	NorC	*Amery*
Winn, Wallace Samuel	LS	*Madison*
Winter, Grace Marian se	LS	*Tomah*
Wirthwein, Carlton	LSMed	*Milwaukee*
Wittchow, Etta se	LS	*Watertown*
Wittner, Oscar	SJ	*Brooklyn, N. P.*
Wixon, Darvey Walter se	LS	*Slinger*
Wolcott, Rolla Raymond	PreMed	*Madison*
Wolf, Grace Marie	M	*Lanark, Ill.*
Wolf, Herman	PreMed	*Kenosha*
Wolf, Louise Adelaide se	LS	*West Allis*
Wolfson, Victor Eugene	LS	*New York, N. Y.*
Wolkimir, Morris Norman	LS	*Kenosha*
Wollaeger, Esther Elizabeth	LS	*Milwaukee*
Wollin, Marion Ethel se	LS	*Lake Mills*
Wolpert, Blanche Charlotte se	LS	*Antigo*
Woodbury, Frank Elsworth	SC	*Beloit*
Woodman, Richard David	LS	*Omaha, Nebr.*
Work, Edith Frances	LS	*Barrington, Ill.*
Wormley, Gordon Wynenz	PreMed	*Rockford, Ill.*
Worthing, Marion Witherbee	LS	*Pittsburgh, Pa.*
Wos, John Leonard se	LS	*Beloit*
Wright, Ellen Douglas se	AA	*Oak Park, Ill.*
Wright, Heloise Esterley	LSAdSp	*Madison*
Wright, Junior Thomas	LS	*Green Bay*
Wright, Mary Elizabeth	LS	*Lakeside, Ohio*
Wright, Paul Eric	LS	*Milwaukee*
Wuest, Christ Paul, Jr. se	PhysEd	*Brooklyn, N. Y.*
Wuerzberger, Ruth Evelyn se	LS	*Racine*
Wynn, Oliver Barbour	GenC	*Madison*
Yonts, James White	LS	*St. Paul, Minn.*
Young, Leslie Howard	LS	*Reeseville*
Youngerman, Henry	LS	*Milwaukee*
Yourd, Marjorie Lois	LS	*Elgin, Ill.*
Yu, Jevons C.	LS	*Washington D. C.*
Yudin, Harry	PreMed	*Marinette*
Zahn, Carl Jacob	SC	*Sturgeon Bay*
Zakula, Helen	LS	*Kinney, Minn.*
Zempel, Agnes Elizabeth	NorC	*Madison*
Zenz, Mary Francis	GenC	*Lancaster*
Zeratsky, John August	LS	*LaCrosse*
Zieman, Howard Otto	GenC	*LaCrosse*
Zilisch, Dorothy Anne se	LS	*Wausau*
Zilske, Robert Gustave	SC	*Appleton*
Zizmor, Judah	PreMed	*Brooklyn, N. Y.*
Zoesch, Delbert Herman se	PhysEd	*Butternut*
Zook, Imogene	LS	*Adrian, Mich.*
Zuelzke, Helen Mararetta	GenC	*Kansas City, Mo.*
Zurmehly, Ruth Ann	LS	*Lima, Ohio*
Zwettler, Wilbert Francis	SC	*Mount Horeb*

SOPHOMORES

Abbott, Warren Allan	LS	*Burlington*
Abiko, Yasuo William	ExpC	*San Francisco, Cal.*
Ablard, James Elbert	ChC	*Port Edwards*
Abraham, Jack Adolph	LS	*West Allis*
Adamson, Charles William se	PhysEd	*Milwaukee*
Adamson, Raymond King	LS	*Madison*
Adelman, David	PhIII	*Racine*
Adler, John Cyrus	LS	*Louisville, Ky.*
Affholder, Florence Margaret	LS	*Madison*
Ahern, Ellen Gertrude	LS	*Madison*
Ahrens, Eleanor Grace	LS	*Madison*
Alberth, Charlotte Julia	LS	*Walworth*
Albright, Hubert William	PreMed	*Madison*
Alk, Ben	PhIII	*Green Bay*
Altmayer, Genevieve Angela	LS	*De Pere*
Andersen, Arthur Carl	LS	*Milwaukee*
Anderson, Dora Elizabeth	LS	*Hibbing, Minn.*
Anderson, Henry Adolph	PreMed	*Ephraim*
Anderson, Marion Irene	LS	*Madison*
Anderson, Marion Louise	LS	*Tomah*
Andrews, Edward Arnold	LS	*Milwaukee*
Andrews, Robert Charles	ExpC	*Rockford, Ill.*
Angell, Helene Katherine	LS	*Madison*
Angevine, Earl Judson	LS	*Geneva, N. Y.*
Antisdel, Marian Wiggins	LS	*Janesville*
Appuhn, Irene Alberta	LS	*Madison*
Archibald, Marjorie Hazel	LS	*Washington, D. C.*
Arnold, Winifred B.	LS	*Eau Claire*
Arthur, Doris Elizabeth	M	*Dodgeville*
Ashman, Lydia Marie	LS	*Sheboygan Falls*
Asleson, Synova Eleanor	GrN	*Stoughton*
Auer, Helen	LS	*St. Louis, Mo.*
Augustinus, Helen Margrethe se	PhysEd	*LaGrange, Ill.*
Austin, Willis Herman	LS	*Green Bay*
Averill, Mary Frances	M	*Dodgeville*
Axel, Ben John	PreMed	*Sheboygan*
Aylward, Richard Laurence	PreMed	*Madison*
Babler, Ellsworth Leo	LS	*Humbird*
Bach, Katherine Julia	LS	*Chicago, Ill.*
Bach, Milton se	AA	*Minneapolis, Minn.*
Backus, Marjorie Alice se	AA	*Lancaster*
Baer, Armin Carl	LS	*Bloomer*
Baird, Walter G.	LS	*Punxsutawney, Pa.*
Baivier, Russell Chester	GenC	*Kiel*
Baker, Everett Burgess	LS	*Milwaukee*
Baker, Ruth Evelyn	LS	*Madison*
Baker, Ruth Stevenson	LS	*Oak Park, Ill.*
Bakke, Theodore Edwin	LS	*Milwaukee*
Bang, Regina Ernestine se	LS	*Cleveland, Ohio*
Banker, Roy Louis	LS	*Johnson Creek*
Barber, Jean Elizabeth se	AA	*Lakewood, Ohio*
Barker, George William	GenC	*Chicago, Ill.*
Barlass, Agnes Bernice se	LS	*Janesville*
Barlow, Meredith	GenC	*Madison*
Barnard, Francis Xavier	LS	*Green Bay*
Barsness, Winfred Ruth	LS	*Madison*
Bartlett, Elsie Elaine	LS	*Chicago, Ill.*
Basche, Orl Fairchild	LS	*Green Bay*

Bassett, Robert Cochem	LS	*Sturgeon Bay*
Bast, Louise Elizabeth	LS	*Rockfield*
Bates, Virginia Mae	LS	*Wauwatosa*
Bath, Dane Nowell	LS	*Oshkosh*
Batterman, Karl Henry	LS	*Elgin, Ill.*
Baumann, Elizabeth Mary	M	*Janesville*
Baumann, William Henry	PreMed	*Racine*
Baxter, Eloy Thomas	GenC	*Cuba City*
Beattie, Orin Elbert	LS	*Antigo*
Beck, Robert William	PreMed	*Wautoma*
Becker, Gerhard	GenC	*Minneapolis, Minn.*
Becker, Rebecca	LS	*Milwaukee*
Beems, Betty Adeline	LS	*Cedar Rapids, Iowa*
Beers, Lestina Jane se	AA	*Mineral Point*
Beglinger, Leroy John	LS	*Madison*
Beinert, Wesley George	LS	*Waupun*
Bekkedal, Lelia Verona	LS	*Westby*
Bemis, Francis von Kaas	LS	*Sheboygan*
Bender, Bernard Budd se	PhysEd	*Richland Center*
Benfer, Emily Elizabeth	LS	*Elkhorn*
Benner, Eleanore Clark	ChC	*Niagara Falls, N. Y.*
Bennett, Robert Moffatt	LS	*St. Louis, Mo.*
Benson, Homer R.	PreMed	*Richland Center*
Bereman, Margaret K.	LS	*Aurora, Ill.*
Berg, Martin Edward	LS	*Tomah*
Berge, Trygve Obert	PreMed	*Stoughton*
Berkness, Mabel Ann	LS	*Oconomowoc*
Berlin, Viola Emily	LS	*Kohler*
Bertrand, Kenneth John	LS	*Madison*
Bessert, Mynard William	ChC	*Wausau*
Best, William Paulson	LS	*Glencoe, Ill.*
Betts, Arnie Fredrick	LS	*Waterloo*
Bey, Lillian Eleanore	LS	*Madison*
Biberfeld, Dorothy	LS	*Gary, Ind.*
Biedermann, Elsbeth Marie	LS	*Milwaukee*
Biehusen, Ruth Lydia	LS	*Sheboygan Falls*
Billington, Amy Charlotte	GrN	*Wausau*
Bingham, Alice Holcomb	M	*Walworth*
Bird, Carol Martin	LS	*Beloit*
Birge, Edward Asahel	PreMed	*Easton, Md.*
Birket, Dorothy Mae	LS	*Peoria, Ill.*
Blackbourne, Joyce	LS	*Brodhead*
Blenis, Emily Maude	LS	*Madison*
Block, Ely	GenC	*Scandinavia*
Block, Vera Elizabeth	LS	*Chicago, Ill.*
Bloomquist, Joel Adolph	LS	*Wausau*
Bluemel, Walter Joseph	LS	*Wauwatosa*
Blum, Dora Elizabeth	GrN	*Monroe*
Boardman, George Holcombe	LS	*Glencoe, Ill.*
Boardman, Mary	LS	*Lowell, Mass.*
Bodden, Eleanor Rose	LS	*Menasha*
Boerger, Walter Edwin	PreMed	*Racine*
Bohn, Elmer Victor	PhIII	*Winneconne*
Bolstad, Emma Sophie	LS	*Gilman*
Bond, Janet Marcia se	PhysEd	*Berwyn, Ill.*
Borsuk, Ben	LS	*Madison*
Bosshardt, Irwin Robert	LS	*Sheboygan*
Bostwick, John Richards	LS	*Port Washington*
Boulay, Carlton D.	LS	*Fond du Lac*
Boyden, Harrison Earl	GenC	*Milwaukee*
Boyer, Nina Marie se	AA	*Napoleon, Ohio*

Boynton, Agnes Mae	LS	*Beloit*
Bradford, William Jr.	ExpC	*Wilmington, Del.*
Brady, Helen Hougen	LS	*Manitowoc*
Brasure, Mary Lucile	LS	*Hartford*
Brault, Delphos Bernard se	PhysEd	*Two Rivers*
Brautigam, Richard Anthony	ExpC	*Racine*
Braxmeier, Arlyn Louise	LS	*Fond du Lac*
Bray, Helen Ruth se	GenC	*Ft. Atkinson*
Brecher, Edward Moritz	ExpC	*Minneapolis, Minn.*
Breckheimer, Kathryn Mary	LS	*Menominee, Mich.*
Breckow, Willard Earl	PhIII	*Plum City*
Brett, Gertrude Frances	CH	*Milwaukee*
Briggs, Betty E. se	AA	*Madison*
Broms, Lila Verne	LS	*Estherville, Iowa*
Brooke, Irene	LS	*Madison*
Broome, George	GenC	*Fontana*
Brophy, Kathleen Jewel se	PhysEd	*Nahma, Mich.*
Brossell, Clara Vivian	LS	*Milwaukee*
Broughton, Lois	LS	*Brodhead*
Brouwer, Stephen William	ExpC	*Wauwatosa*
Brown, Bernice M.	LS	*Madison*
Brown, Charles Wetherbee	ExpC	*Rockford, Ill.*
Brown, Clarence Arthur	LS	*Madison*
Brown, Edmund Samuel se	PhysEd	*Ashland*
Brown, Jean McLean	LS	*Miles City, Mont.*
Brown, Wilson Lembrich	LS	*Evansville*
Buckingham, Benjamin Bryant	LS	*Highland Park, Ill.*
Bucklin, Bethana Eliza	LS	*West Bend*
Buff, Laura Edith	LS	*Jamaica Plain, Mass.*
Bulgrin, James Gustave	PreMed	*Marshfield*
Bullock, Frank Arthur se	PhysEd	*Lake Geneva*
Bunting, Henry	CH	*Madison*
Burch, Gardner Mitchell se	AA	*Madison*
Burchard, Ruth Stella	LS	*Cedar Rapids, Iowa*
Burdick, Charles Alton	LS	*Baraboo*
Burek, Aloysius William	PreMed	*Wausau*
Burgess, Frances Emma	LS	*LaCrosse*
Burgess, Robert Roy	GenC	*Racine*
Burkardt, Lohr Arthur	ChCC	*Milwaukee*
Burkett, Zelda Elizabeth	LS	*Madison*
Burns, Olive Martha	LS	*Elwood, Nebr.*
Burstein, Joseph	LS	*Cleveland, Ohio*
Buys, Frederick Walton	ChC	*Syracuse, N. Y.*
Cady, Catherine	GenC	*Green Bay*
Cafferty, Margaret Lucille	LS	*Elroy*
Cahn, Bernard	LS	*Far Rockaway, N. Y.*
Caird, Dorothea Ames	LS	*Madison*
Caldwell, Joseph Wallace	LS	*Chicago, Ill.*
Callahan, Garrett James	LS	*Madison*
Campbell, Charles Tenbrook	LS	*Kewaunee*
Campbell, Vivien Maye	LS	*Fargo, N. Dak.*
Cane, Katherine Woodberry se	PhysEd	*New York City, N. Y.*
Canepa, Philip Julian	ChC	*Madison*
Canfield, William Frederick	LS	*Sparta*
Cannon, Alexander Shannon	LS	*Milwaukee*
Cannon, Jean Vivian	LS	*Chicago, Ill.*
Capelett, Frank Gordon	ExpC	*Lohrville*
Carney, Francis Buffington Joseph	LS	*Chicago, Ill.*
Carter, Helen Elizabeth	LS	*Madison*
Casberg, Kroner Edison	LS	*Holmen*
Cavanagh, Annabelle	LS	*Madison*

Chadwick, Harriet Charlotte se	PhysEd	*Chicago, Ill.*
Chaikin, William	ExpC	*New York City, N. Y.*
Chaimson, Leobe Leo	LS	*Wautoma*
Chambers, Lloyd Lajoie se	LS	*Milwaukee*
Chaney, Mary Elizabeth	PreMed	*Milwaukee*
Chapman, Harriet Mary se	AA	*Madison*
Chase, Marianne	LS	*New Bedford, Mass.*
Chase, Marjorie	LS	*Madison*
Chessen, James	PreMed	*Superior*
Chizek, Clyde Earl se	PhysEd	*Two Rivers*
Chobot, Edna Cathleen	LS	*Chicago, Ill.*
Christenson, Helen Caryl	LS	*Madison*
Christoferson, Dellice Grace	GrN	*Fennimore*
Chudacoff, William Lester	LS	*Neenah*
Church, Adeline Mary	LS	*Walworth*
Clay, Ruth Eleanor	LS	*Madison*
Cleenewerck, Eleanor Wilhelmina	LS	*Kalamazoo, Mich.*
Clegg, Harold Henry	GenC	*LaFayette Ind.*
Clemens, Paul Lewis se	AA	*Milwaukee*
Clement, Walter Bertram	PreMed	*Bartow, Fla.*
Clements, Mary Alice	LS	*Vesper*
Cline, Virginia Pauline	LS	*Chicago, Ill.*
Clogher, Charles peter	LS	*Chicago, Ill.*
Cochran, Marguerite	LS	*Philadelphia, Pa.*
Cohen, Abram Jess	LS	*Appleton*
Cohen, Delmar D.	ExpC	*South Milwaukee*
Cohen, Dorothy Phyliss	LS	*Chicago, Ill.*
Cohen, Joseph Robert	PreMed	*Milwaukee*
Cohen, Martha Mabel	LS	*Brooklyn, N. Y.*
Cohen, Marvin Stafford	PreMed	*Cleveland, Ohio*
Cohen, Meyer	PhIV	*Kenosha*
Cohn, Betty Augusta	LS	*Cleveland, Ohio*
Cohn, Ruth Frances	LS	*Fond du Lac*
Cole, Dorothy Evelyn	GrN	*New Lisbon*
Cole, Helen Louise	LS	*Atlantic, Iowa*
Coleman, Charles Edward	LS	*Wayne, Ill.*
Collins, Eleanor Violet se	AA	*Charleroi, Pa.*
Collins, Mary Alice	LS	*Gary, Ind.*
Comee, William Clyde	PreMed	*Green Bay*
Conant, Susan Adeline	GrN	*Harvey, Ill.*
Conklin, Geraldine Elaine	LS	*Waterloo*
Conrad, Norman Edward	LS	*Waukegan, Ill.*
Conroy, Lenora Marie	LS	*Superior*
Conway, Robert Luft	PreMed	*Wisconsin Rapids*
Cook, Joseph Burr	LS	*Madison*
Cook, Josephine Ruth	LS	*Madison*
Cook, Robert Sumner	LS	*Milwaukee*
Cook, Robert Thomas se	PhysEd	*Williams Bay*
Cooley, Gladys Aideth	GrN	*Bloomington*
Cooley, Richard Presba	LS	*Wisconsin Rapids*
Cooney, Kathleen Edwardine	LS	*Appleton*
Corbin, Homer Bonbright	ChC	*Chicago, Ill.*
Cordy, Owen Walker	LS	*Mellen*
Cormany, Kenneth Mackey	LS	*Beloit*
Coughlin, Arthur Patrick se	IndEd	*Columbus*
Counsell, Francis Allan	LS	*Oconomowoc*
Cowan, Helen Margaret	LS	*Kansas City, Mo.*
Coy, Kathryn	LS	*Idaho Falls, Idaho*
Cradit, Darlene Elaine	LS	*Sioux City, Iowa*
Crain, Mary Elizabeth	LS	*Evanston, Ill.*
Crain, Morris Howard	GenC	*Rushville, Ind.*

Cralley, Jesse Albert se	AA	*Mount Olive, Ill.*
Crandell, Thelma Ruth	LS	*Ladysmith*
Crane, Walter Noel	GenC	*Peoria, Ill.*
Craven, Mildred Arline	LS	*Washington, D. C.*
Crawford, John Woodford	ExpC	*Oak Park, Ill.*
Critchell, Barbara	LS	*Chicago, Ill.*
Crout, Cordelia Jane	LS	*Milwaukee*
Crowell, Neil F.	PreMed	*Oshkosh*
Cunningham, Charles Howard se	PhysEd	*Janesville*
Currick, Fishel Blyn	ExpC	*New York City, N. Y.*
Daehler, Kenneth William	LS	*Mirror Lake*
Dammen, Arnold H.	LS	*LaCrosse*
D'Ancona, Alfred Edward Jr.	LS	*Chicago, Ill.*
D'Angelo, Aurora	LS	*Chicago, Ill.*
Danielson, Donald Eldred	LS	*La Porte, Ind.*
Danielson, Norman Nicholas	GenC	*Chicago, Ill.*
Darbo, Rolf Edgar	ChC	*Wauwatosa*
Darrow, John Law	GenC	*Neenah*
Dasler, Waldemar	ChC	*Watertown*
Dassow, Ellen Helen	LS	*Sheboygan Falls*
Daugherty, Nellie	M	*Platteville*
Davidson, Jacques Yvon	LS	*Paris, France*
Davies, Robert Frederick	LS	*Milwaukee*
Davis, Catherine	LS	*Ashville, N. Y.*
Davis, Elizabeth C. se	PhysEd	*Louisville, Ky.*
Davis, Ruth Viola	LS	*Lakewood, Ohio*
Daywitt, Lola Louise	LS	*Boscobel*
Deal, Susanna Partridge se	PhysEd	*Troy, N. Y*
Deck, Harry W.	LS	*Delavan*
De Joughe, Henriette Barbara	LS	*Chicago, Ill.*
Dengel, Josephine Marie	GenC	*Madison*
Dengel, Walter	GenC	*Madison*
Derleth, Hildred Virginia	M	*Sauk City*
Desormeaux, Dorothea Violet se	AA	*Madison*
Dettman, Josephine Cecile se	AA	*Manitowoc*
Deyoe, William Earl	GenC	*Arena*
Diamond, Elsie	LS	*Chicago, Ill.*
Dickerson, John Robert	LS	*Edgerton*
Dickert, Alphonse Walter	MAdSp	*Madison*
Dickinson, William Edward	GenCAdSp	*Milwaukee*
Dieter, Curtis Earl	LS	*Cobb*
Dieterle, Alice Bertha	M	*Prairie du Sac*
Dietrich, Manford Klein	LS	*Owen*
Dingee, Wallace Lee, Jr.	LS	*Madison*
Ditfurth, Betty Frances	LS	*River Forest, Ill.*
Dockery, Gordon Patrick	PreMed	*South Milwaukee*
Dodd, Catherine Jean	LS	*Fond du Lac*
Dodd, Dolores	LS	*Milwaukee*
Dodge, Elizabeth Jane	LS	*Madison*
Doepke, Frederick Arthur	ExpC	*Merrill*
Dolan, Wallis W.	LS	*Green Bay*
Donaldson, William	LS	*Oshkosh*
Douglass, Lorna Elizabeth	LS	*Madison*
Downs, F. Virginia	LS	*Bartlesville, Okla.*
Dowse, Milton Evans	PreMed	*Kenosha*
Doyle, Thomas Mariga	LS	*Chicago, Ill.*
Drake, Robert Oliver	LS	*Waterloo, Iowa*
Drews, Dora Marie	LS	*Madison*
Dubrov, Gladys Jean	LS	*Madison*
Dudley, Marian Elizabeth	M	*Madison*
Dunham, Leonora	LS	*Chicago, Ill.*

Dusenberry, William Rollinson	LS	*Goshen, Ind.*
Dryeson, Curtis Albert	LS	*Dodgeville*
Earley, Alice Worden	LS	*Paris, France*
Easterly, Elizabeth Evelyn	LS	*Milwaukee*
Eastman, Hazel Alice	GenC	*Cobb*
Eberiel, Herman James	ExpC	*Newark, N. J.*
Ebert, Lester Leon	LS	*Waupun*
Eckert, Orrin Davie	ChCC	*Rochelle, Ill.*
Edelstein, Julius Claude	ChC	*Milwaukee*
Edelstein, Morris	PreMed	*Madison*
Edland, Gudrun Marie	LS	*Madison*
Edmands, Lincoln Parker	ExpC	*Newtonville, Mass.*
Edwards, Stanley Russell	PreMed	*Lancaster*
Egan, Harry Presbrey	ExpC	*Rock Falls, Ill.*
Egeland, Olaf Truman	LS	*Chicago, Ill.*
Egelhoff, Norman Otto	LS	*Fond du Lac*
Egre, Julian Sanford	GenC	*DeForest*
Ehlert, Phyllis Verna	M	*Reedsburg*
Ehrler, Katherine	LS	*Milwuukee*
Eigen, Dave	PreMed	*Milwaukee*
Eighmy, Dorothy Estelle	LS	*Madison*
Eilenberger, Victoria Stafford	LS	*Chicago, Ill.*
Eisele, Donald Henry	PreMed	*Madison*
Eisenberg, Sylvia Audrey	LS	*Waukegan, Ill.*
Eising, Hetty Louise se	PhysEd	*Waukesha*
Eismann, William Louis Clarence	ChCC	*Chicago, Ill.*
Elbaum, Mark	LS	*Milwaukee*
Eldridge, Lynn Edwin	LS	*Madison*
Elliott, James Philip	LS	*West Allis*
Ellison, Herbert LeRoy	LS	*Hawkins*
Ells, Julia Horton	LS	*Milwaukee*
Emery, Margaret J.	LS	*Philadelphia, Pa.*
Emmert, Dudley O'Neal	GenC	*LaCrosse*
Engebretsen, Lloyd Dallas	LS	*Beloit*
Epstein, George Marvin	PreMed	*Kenosha*
Erbe, Rachel	LS	*New Holstein*
Erickson, Leif Theodore	LS	*Ashland*
Erickson, Miles Lincoln	LS	*LaCrosse*
Ericson, Pierce Albert	LS	*Milwaukee*
Erler, William Charles	LS	*Chicago, Ill.*
Ermenc, John Joseph	ExpC	*Milwaukee*
Ernst, Agnes Eleanore se	PhysEd	*St. Paul, Minn.*
Estabrooks, Ethel Mae	LS	*Fond du Lac*
Estreen, Daniel Jacob	LS	*Oconto*
Evans, Dave Myles	LS	*Waukesha*
Evans, Richard William C. Jr.	ChC	*Rockford, Ill.*
Evans, Robert Donald	GenC	*Madison*
Evenson, Everet Kenneth	GenC	*Stetsonville*
Evers, John Kenneth	LS	*Sharon*
Eversmeyer, Bernice se	PhysEd	*Muscatine, Iowa*
Everson, Tom James	LS	*Lake Mills*
Ewing, Clayton	LS	*Merrill*
Extrom, John Alden	ChC	*Tomahawk*
Exum, William se	PhysEd	*Gary, Ind.*
Fanton, Hilda Elizabeth se	AA	*Chicago, Ill.*
Farness, Gladys Janette	M	*DeForest*
Faust, Liane Anne	CH	*Madison*
Feder, Janet Martha	LS	*Bradford, Pa.*
Federman, Eleanor Margaret	LS	*Montello*
Feiker, Katharine Romayne	LS	*Racine*
Fernback, Frank Leon	ExpC	*Philadelphia, Pa.*

Ferris, Hazel Catherine	LS	*Sturgeon Bay*
Ferris, John Estill	LS	*Milwaukee*
Fiecshko, Frank Lee	LS	*Racine*
Figi, Opal Birdella	LS	*Madison*
Filter, Karl William	GenC	*Madison*
Findley, Elizabeth Harriet se	PhysEd	*Wauwatosa*
Finkh, Virginia Elizabeth	M	*Janesville*
Fischer, William Royal	LS	*Elgin, Ill.*
Fisher, Lucille	LS	*Des Plaines, Ill.*
Fitzgibbon, Thomas Micheal	PreMed	*Milwaukee*
Flanzbaum, Sydney	PreMed	*Providence, R. I.*
Fleury, Paul L.	ChCC	*Madison*
Flint, Joseph Wilcox	LS	*Menomonie*
Flood, Mary Agnes	GenC	*Kendall*
Flores, Joseph Sanchez	LS	*Youngstown, Ohio*
Fogg, Sherman Perry se	PhysEd	*Edgerton*
Follett, Grace Parker	CH	*North Attleborough, Mass.*
Ford, Justin Joseph	GenC	*Milwaukee*
Forgrave, John Robert	PreMed	*St. Joseph, Mo.*
Fornefelt, Dorothy Edna	LS	*Marshfield*
Forster, Louise Dena	LS	*River Forest, Ill.*
Fortney, Gordon Olaf	LS	*Viroqua*
Fosler, Mary Helen se	PhysEd	*Dayton, Ohio*
Foster, David Armitage	LS	*Milwaukee*
Fowler, James Harman	PreMed	*Lancaster*
Fox, Dorothy Elise	LS	*Milwaukee*
Fox, Henry Jackson	LS	*Milwaukee*
Fox, Mary Anna	LS	*Madison*
Fraizer, Eleanor Elizabeth	LS	*Oak Park, Ill.*
Frank, Maurice Jerome	LS	*Chicago, Ill.*
Frank, Paul Charles	ExpC	*Chicago, Ill.*
Franklin, Aaron Maurice	LS	*Milwaukee*
Frasche, Dean Frederic	GenC	*Ames, Iowa*
Freedman, Lillian Harriet	LS	*Crawfordsville, Ind.*
Freeman, Lois Rosamond	M	*Madison*
Freshman, Helen	LS	*Flossmoor, Ill.*
Frew, Jeannette Atlanta	LS	*Frewsburg, N. Y.*
Fries, Robert Arden se	PhysEd	*Bowling Green, Ohio*
Fringer, Robert	PreMed	*Rockford, Ill.*
Fromm, Phillip Charles se	AA	*Milwaukee*
Frusher, Eileen Lucile	LS	*Madison*
Fuente, Rogelia de la	LS	*Coahuila, Mexico*
Fugina, Marvin Lloyd	LS	*Fountain City*
Fuller, Carlton Edwin	LS	*Gary, Ind.*
Fuller, Dorothy Frances	LS	*Milwaukee*
Fuller, Harold Douglas	LS	*Madison*
Funnell, Bernice Irene	HygC	*La Valle*
Gabbe, Alvin Jacob	ExpC	*New York, N. Y.*
Gahagen, Mary Ernesta	LS	*Reedsburg*
Gale, Lilian K.	LS	*Bismarck, Mo.*
Garity, Francis John	LS	*Oconomowoc*
Garness, Esther Valborg	LS	*Madison*
Garrigus, Margaret Catharine se	LS	*Terre Haute, Ind.*
Gartzke, Norman Edwin August	LS	*Hortonville*
Gaston, Kenneth Ellsworth	LS	*Baraboo*
Gauvin, Ellen Magdalene	LS	*Eau Galle*
Geffert, Bernice Clara	LS	*Madison*
Gehlhoff, Fred August se	PhysEd	*Stambaugh, Mich.*
Geib, Donna Sterling	PreMed	*Madison*
Geiger, Ferdinand	PreMed	*Milwaukee*
Geiger, Harry Norbert	PreMed	*Newark, N. J.*

Gelbach, Dorothy Frances	CH	*Chicago, Ill.*
Genske, Jane Elizabeth se	AA	*Madison*
George, Price J.	GenC	*New Lisbon*
Gerber, Alfred Benjamin	LS	*Sheboygan*
Gerke, Alma Winnifred	LS	*Madison*
Gerl, Lucille S.	LS	*Manitowoc*
Gerlach, Leslie George	ChCC	*Milwaukee*
Gerling, Paul Henry	GenC	*Madison*
Germain, Louis G.	ChC	*Gardner, Ill.*
Giddings, Harriett Dorothy	LS	*Chicago, Ill.*
Geiseler, Elizabeth Harvey	LS	*Towner, N. Dak.*
Gilles, Lawrence Antone	LS	*LaCrosse*
Gillmann, John Charles	LS	*Mineral Point*
Ginsburg, Harold	LS	*Chicago, Ill.*
Glanville, Frederick Stevens	LS	*Marshfield*
Gleason, Margaret	LS	*Madison*
Gnabah, Walter Arthur se	PhysEd	*Chicago, Ill.*
Godfrey, Grace Graham se	AA	*Wauwatosa*
Goeke, Mary Elizabeth	LS	*Wapakoneta, Ohio*
Goeltz, Pauline L.	LS	*Milwaukee*
Goessling, Fred William	LS	*St. Louis, Mo.*
Goldberg, Belle Audrey	LS	*Cleveland, Ohio*
Goldberg, Sidney Julian	LS	*Chicago, Ill.*
Goldberger, Harry S.	PreMed	*Milwaukee*
Goldberger, Irene White	LS	*Milwaukee*
Goldfus, Harold	LS	*Rock Falls, Ill.*
Goldin, Abe	LS	*Kaukauna*
Goldlust, Max Joseph	ExpC	*Cleveland, Ohio*
Goldman, Warren Oscar	LS	*Milwaukee*
Goldsmith, Marion Theresa	LS	*Milwaukee*
Goldstein, Leo Lawrence	LS	*Milwaukee*
Goldstein, Lillian	LS	*New York, N. Y.*
Goldstein, Rosaline Ruth	M	*Milwaukee*
Golluber, Hortense Louise	LS	*St. Louis, Mo.*
Goodman, David William	LS	*Milwaukee*
Goodman, Evelyn Norma	LS	*Chicago, Ill.*
Goodman, Robert	LS	*Fond du Lac*
Goodnough, David William	GenC	*Watertown, N. Y.*
Goodrich, Leslie Benjamin se	PhysEd	*Madison*
Gordon, David	ExpC	*Brooklyn, N. Y.*
Gordon, Richard Burdette	GenC	*Neenah*
Gorenstein, Lester Floyd	PreMed	*Milwaukee*
Gormley, Katherine Mary	LS	*Delavan*
Gorsuch, Helen Hoard	LS	*Waupun*
Gosnell, Herschel Devere	LS	*Milwaukee*
Gottlieb, Emanuel	PreMed	*New York, N. Y.*
Gottschalk, Elmer Frederick	M	*New London*
Graebner, Walter Bernhard	LS	*Wausau*
Grassman, Earl Thomas	LS	*Edgerton*
Grattan, Henry Vincent	LS	*San Francisco, Cal.*
Grebe, Theodore Richard	LS	*Waupun*
Grebe, Walter William se	PhysEd	*Warsaw, Ill.*
Green, John	LS	*Milwaukee*
Green, Margot	LS	*Portage*
Green, Marvin Frederick	LS	*Madison*
Greene, Frances Noble	LS	*Lima, Ohio*
Greenstein, Orie Earl	PhIV	*Sheboygan*
Gregory, Philip Spencer	ExpC	*Derby, Conn.*
Griffeth, Martelle Odette	LS	*Evansville*
Griffith, Marshall	LS	*Columbus*
Grimes, Lloyd Vickerman	LS	*Platteville*

Grinde, John McDonald	PreMed	*De Forest*
Griswold, Harry Nyal se	PhysEd	*Madison*
Gross, Marie Katherine se	AA	*Madison*
Grossman, Aaron	PreMed	*Milwaukee*
Groves, Barton Oscar se	PhysEd	*Madison*
Gruber, Alfred Matthew	LS	*Stanley*
Gruber, Edward David	LS	*Madison*
Guenther, Charles Arthur	PreMed	*Milwaukee*
Gulesserian, Mary	LS	*Madison*
Gullikson, Boletta Geneva	GenC	*Stevens Point*
Gundersen, Thorolf Egil	PreMed	*LaCrosse*
Gutknecht, Alice Brooke	LS	*Milwaukee*
Gutz, Raymond Treanor	PreMed	*Selby, S. Dak.*
Haentzschel, Lester Esaias	PreMed	*Madison*
Hagen, Clyde Hugh	LS	*Hortonville*
Hahn, Alyce Vera	ChC	*Salem*
Hahn, Wallace Charles	LS	*Clinton*
Haire, George Mason	LS	*Fort Dodge, Iowa*
Haley, Merrill Melbourne Jerome	GenC	*Madison*
Hall, Burton Woodworth	LS	*Baraboo*
Hall, Grace Thompson	HygC	*Wauwatosa*
Halperin, May	LS	*Brooklyn, N. Y.*
Halperin, Robert Sherman	LS	*Oak Park, Ill.*
Halperin, Ruth Julie	LS	*Oak Park, Ill.*
Halverson, Alida	LS	*Madison*
Halverson, Mildred Sylvia	LS	*Stoughton*
Hamm, Harold Adam se	PhysEd	*Milwaukee*
Hammer, Morris Otterson	LS	*Madison*
Hammersley, Margaret A.	LS	*Milwaukee*
Hampton, William James	GenC	*Chicago, Ill.*
Hamre, Harold Thomas	PreMed	*Wautoma*
Hanas, Julia Lois se	PhysEd	*Chicago, Ill.*
Hancock, Isabelle Harriet	LS	*Harvard, Ill.*
Haney, Agnes Margaret	GrN	*Westfield*
Hanley, Wilbur Matthew	LS	*Baraboo*
Hannahs, Dorthea	LS	*Kenosha*
Hannan, Kenneth Douglas	LS	*Green Bay*
Hanrahan, John Arthur	LS	*Janesville*
Hansen, Edna L. Erickson	LSAdSp	*Madison*
Hansen, Gordon Conrad	LS	*Madison*
Hansen, Milo	LS	*Madison*
Hansen, Ruth Evelyn	LS	*Sextonville*
Hanson, Oliver James	LS	*Blair*
Hardy, Alice Leigh se	AA	*Spencer, Idaho*
Hardy, James Winchester	GenC	*Chicago, Ill.*
Hardy, Josephine Lenore se	PhysEd	*Marion, Ind.*
Harris, Beatrice Alice	LS	*Brookings, S. Dak.*
Harris, Hardynia Gordon	LS	*Chicago, Ill.*
Harris, Mary Agnes se	PhysEd	*South Bend, Ind.*
Hart, Stephen	LS	*Toledo, Ohio*
Hartley, Dorothy Eleanor	LS	*Watertown, Mass.*
Harvey, Jack	ChC	*Racine*
Haskins, Marjorie Elizabeth	LS	*Janesville*
Hausman, Harold Adolf	GenC	*Madison*
Havens, Ralph John	LS	*Madison*
Hawker, John Carl	GenC	*Elgin, Ill.*
Haworth, Dorothy Jean	LS	*Beverly Hills, Cal.*
Hay, Harold Robert	ChC	*Spokane, Wash.*
Hayes, Margaret B.	LS	*Crosby, N. Dak.*
Heap, Winifred	LS	*Cleveland, Ohio*
Heath, Mary Agnes	LS	*Madison*

Heatley, Helen Dorothy	LS	*Harvard, Ill.*
Heck, Sidonia Helena	HygC	*Mondovi*
Hegland, Eleanore Angela	LS	*Hollandale*
Heidt, George Bernard	PhIII	*Portage*
Heimerl, Raymond Arthur	PhIII	*Athens*
Heinze, Norma Jean	LS	*Madison*
Heller, Albert Charles	LS	*Milwaukee*
Helliwell, Louise	LS	*Milwaukee*
Helmbrecht, Milan Gladstone	PreMed	*Mayville*
Hendrickson, Alvin Octive	PreMed	*Black River Falls*
Henlein, Antoinette	LS	*Madison*
Herbster, Kenneth Edwards	PhysEd	*Madison*
Herreid, Henry Benjamin	LS	*Deerfield*
Herrick, Helen Damme	LS	*Battle Creek, Mich.*
Hertel, Francis Michael	PreMed	*New York City, N. Y.*
Hertzberg, Charlotte Carolyn	LS	*Park Ridge, Ill.*
Hess, Caroline Elisabeth	LS	*Milwaukee*
Hess, George Harry	ExpC	*Chicago, Ill.*
Hess, Roland Joseph	LS	*Two Rivers*
Heth, Edward Harry	LS	*Milwaukee*
Heyda, June Rufus	LS	*Winnetka, Ill.*
Hiatt, Howard O.	LS	*Peoria, Ill.*
Hibbard, Russell Lowell	ExpC	*Madison*
Higbee, Edward Counselman	ExpC	*LaCrosse*
Hildie, J. Newell	LS	*Lakewood, Ohio*
Himes, Allen Munger	LS	*Grand Rapids, Mich.*
Hinchliffe, Orpha Elizabeth	LS	*Racine*
Hines, George Messerschmidt, Jr.	PreMed	*Madison*
Hines, John Edward	LS	*Rochester, Minn.*
Hinn, Harold Joseph	LS	*Plainview, Texas*
Hinrichs, Llewellyn	PreMed	*Madison*
Hippenmeyer, Richard Smith	LS	*Waukesha*
Hoblit, Helen Harber	LS	*Bloomington, Ill.*
Hodges, Anne Chamberlain	CH	*Indianapolis, Ind.*
Hoffman, Dorothy P.	LS	*Milwaukee*
Hoffmann, Adolph Anthony	LS	*Milwaukee*
Hoge, Howard James	LS	*Milwaukee*
Hogie, Earl John	LS	*Stoughton*
Hohman, Adelbert Clarence	LS	*Wausau*
Holbrook, Harold Edwin, Jr.	ExpC	*Milwaukee*
Hollander, Kenneth Frank	LS	*Milwaukee*
Hollen, Richard Andrew	LS	*Chicago, Ill.*
Holliday, Philip Leigh se	AA	*Fairmount, Ind.*
Holmes, Edith Aldous	LS	*Middleton*
Holt, Gweneth May	LS	*Madison*
Holtorp, Alice Marie	LS	*Clearwater Lake*
Honeycombe, Wylanta Virginia	LS	*Madison*
Hoppe, William Charles, Jr.	LS	*Wittenberg*
Horne, Ida Battle	LS	*Leonia, N. J.*
Horne, Robert Milton, Jr. se	PhysEd	*Brodhead*
Horswell, Richard Glenn	PreMed	*Wausaukee*
Horton, Anna Lillian	LS	*Wauwatosa*
Horwitz, Stella	LS	*Butler, Penn.*
Hosek, Daniel Thomas	LS	*Milladore*
Hosler, Helen Seymour	LS	*Mansfield, Ohio*
Hottensen, William Garner	LS	*Milwaukee*
Hougen, Bernhard Orlando	LS	*Madison*
Hough, Charles Louis	LS	*Carthage, Mo.*
Hubbard, Elizabeth Vickery se	PhysEd	*Wollaston, Mass.*
Huber, Robert Bernhardt	LS	*Clinton*
Hull, Evelyn Mabel	LS	*Medford*

Hultquist, Charlotta Elizabeth	M	*Alcoa, Tenn.*
Humboldt, Karolyn Ida se	PhysEd	*Waukesha*
Hurd, Natalie Anna	LS	*Kenilworth, Ill.*
Hurtgen, Donald Charles	LS	*Madison*
Hurth, Oscar William	LS	*Cedarburg*
Hussa, Mary Margaret	M	*Bangor*
Husting, William Eugene	LS	*Milwaukee*
Hutchings, Paul Raymond	LS	*Milwaukee*
Huth, Claude Wilmont se	PhysEd	*Seymour*
Huyette, Nancy Jane	LS	*Bloomfield Hills, Mich.*
Ingwell, Lester Clayton	PreMed	*Blanchardville*
Inman, Gladys Marie	LS	*Janesville*
Irmiger, Jean Elizabeth	LS	*Green Bay*
Istas, Everett Frank	GenC	*Menominee, Mich.*
Jackson, Bernice se	PhysEd	*Beaumont, Tex.*
Jasinoff, Gwendolyn Elizabeth	LS	*Philadelphia, Pa.*
Jebe, Carl Ferdinand	M	*Appleton*
Jegi, Charlotte Mae se	PhysEd	*Galesville*
Jenkyn, Vaun Lawrence	LS	*Cuba City*
Jennings, Stanley Tilsen	LS	*Ashton, Ill.*
Jensen, Frederich Townsend	GenC	*Stoughton*
Jensen, Howard Christian	LS	*Mt. Gilead, Ohio*
Jewell, Grace Elizabeth	LS	*Milwaukee*
Jiencke, Edith Edwina	LS	*Des Plaines, Ill.*
Johnson, Chester Willard	PhIII	*Mondovi*
Johnson, Cornelia Agnes	LS	*Madison*
Johnson, Herbert William	LS	*Sawyer*
Johnson, John Birk	GenCADSp	*Madison*
Johnson, Margaret May se	AA	*Beloit*
Johnson, Rae Ragna	NorC	*Washburn*
Johnson, Robert Sidney	LS	*Milwaukee*
Johnson, Thomas Edward	LS	*Wauwatosa*
Johnson, Walker Buchanan	LS	*Plainfield*
Johnston, James Moltz	LS	*Milwaukee*
Jones, Alice Esther	LS	*Madison*
Jones, Donald Elizah	GenC	*Montford*
Jones, Eleanor Louise	CH	*Madison*
Jones, Elizabeth Parkhurst	LS	*Albany, N. Y.*
Jones, Haydn R.	LS	*Randolph*
Jones, Margaret Mary	LS	*Madison*
Jones, Richard Lloyd	ExpC	*Tulsa, Okla.*
Jones, Ruth Rita	LS	*River Grove, Ill.*
Jones, Thomas Parry	LS	*Oregon*
Jones, Vernon Jr.	LS	*Joplin, Mo.*
Jones, Virginia Bauman se	AA	*Janesville*
Jubelirer, Herbert James	LS	*Pittsburgh, Pa.*
Juday, Chancey Evans	LS	*Madison*
Kaeser, Frederick se	AA	*Madison*
Kahlenberg, Getrude Flynn	GenC	*Two Rivers*
Kaiser, Herbert Easton	GenC	*Racine*
Kaiser, Paul John se	PhysEd	*Muscoda*
Kamm, Frank Rafferty	LS	*Montfort*
Kane, Joseph D.	LS	*Green Bay*
Kapp, Alice Marie	LS	*Milwaukee*
Karansky, Philip	LS	*Brooklyn, N. Y.*
Kasper, Sydney Harold	ExpC	*Chicago, Ill.*
Katcher, Naomi	LS	*Brooklyn, N. Y.*
Katz, Dorothy Diane	LS	*Cleveland, Ohio*
Kaufman, Mary Dorothy	LS	*Kansas City, Mo.*
Kaupanger, Lydia Annette	GrN	*Stoughton*
Kay, Ruth	LS	*Festus, Mo.*

Keaveny, Martin Timothy	LS	*St. Cloud, Minn.*
Keck, Ernest John se	AA	*Watertown*
Keir, Eunice Christine	LS	*Madison*
Kelleher, Patrick Henry	GenC	*Madison*
Keller, Leonard Ramcan	M	*Chicago, Ill.*
Kelley, William Merle	GenC	*Mineral Point*
Kelliher, Robert Marion	PreMed	*Madison*
Kelly, Irene Mary	LS	*Madison*
Kemp, Chandler Edward	GenC	*Madison*
Kerstetter, Lawrence Barnes	ExpC	*Oneida*
Kiessling, Robert Lewis	ExpC	*Jefferson*
Killian, Melvin Joseph	ChC	*Kaukauna*
Kimball, Mary Test	LS	*Milwaukee*
King, Dorothy Ann	PhIV	*Green Bay*
King, Joyce Eleanor se	PhysEd	*Union City, Pa.*
King, Katherine Jane	LS	*Chicago, Ill.*
King, Paul Frederick	GenC	*Watertown*
King, Ruth Marian	LS	*Wilmette, Ill.*
Kinney, Paul Edward	LS	*Washburn*
Kirch, Maxine Dorothy	M	*Mazomanie*
Kirk, Lawrence Rector	LS	*Seaside, Ore.*
Kirkpatrick, John Henry	LS	*Bloomington, Ill.*
Kiselow, Sam	PreMed	*Racine*
Kjelson, Nathan John	LS	*Sheboygan*
Kjelson, Niles Anton	ChCC	*Sheboygan*
Klapat, Bernice Ann	LS	*Racine*
Kliese, Robert John	PreMed	*Prairie du Sac*
Klossner, Charlene Marie	LS	*Madison*
Klug, Norton Druse	LS	*Milwaukee*
Knapp, Barbara	LS	*Howell, Ind.*
Knippel, Kathleen Angela	LS	*West Bend*
Knoernschild, Dorothea Jane	LS	*Milwaukee*
Knoff, Marion Grace	LS	*Milwaukee*
Knope, Sidney Edward	CH	*Madison*
Knox, Janet Natalie	LS	*Waterloo, Iowa*
Knutson, Kermit Russell	LS	*Blair*
Kobrin, Solomon	ExpC	*Chicago, Ill.*
Koch, Richard William	LS	*Wauwatosa*
Koch, Waldron Herman	LS	*North Milwaukee*
Kocvara, Francis Joseph	LS	*Madison*
Koehler, Herman Emil	LS	*Shawano*
Koehn, Carl James	ChC	*Madison*
Koehn, Eunice Ella	LS	*Sturgeon Bay*
Koehn, John Henry	LS	*Oshkosh*
Koelsch, Dolores Mary	LS	*West Allis*
Koglin, Anna Emilie	LS	*River Falls, Minn.*
Kohl, Maybelle Nettie	LS	*Lake Zurich, Ill.*
Kohli, Helen Louise	LS	*Monroe*
Kolar, Anna Julia se	LS	*Muscoda*
Kolb, Dorothy Elizabeth	M	*Madison*
Kommers, Robert Edward	LS	*Madison*
Konz, Martha Louise se	PhysEd	*Lakewood, Ohio*
Koplowitz, Kopel	LS	*New York, N. Y.*
Koretz, Miriam	LS	*Chicago, Ill.*
Korsan, Robert Gordon	ExpC	*Oak Park, Ill.*
Kossak, Eugene Robert	LS	*Chicago, Ill.*
Koth, Ervin Arthur	GenC	*Milwaukee*
Kowalski, Julius Mathew	ChC	*Milwaukee*
Kramer, Milton	ExpC	*Brooklyn, N. Y.*
Kramer, Vernice Marian	PhIII	*Madison*

Kraseman, Charlotte Dorothea se	LS	*Milwaukee*
Kraus, Loraine Antonette	AA	*Wauwatosa*
Kremer, Helen E.	LS	*Fond du Lac*
Krieger, Beatrice Miriam	LS	*Milwaukee*
Krieger, Herbert Donald	PreMed	*Milwaukee*
Kripke, Pearl Dorothy se	LS	*Milwaukee*
Krom, Milton Abraham	PhIII	*Withee*
Kroner, Clara Edith	LS	*LaCrosse*
Kronquest, Gladys Margaret	LS	*Maywood, Ill.*
Kruse, Marion Winifred	LS	*Milwaukee*
Krzysko, Alois E.	PreMed	*Milwaukee*
Kubitz, Lothar Otto	ChC	*Madison*
Kuehl, Catherine Helen	LS	*Green Valley*
Kuehlthau, Arthur Edmund	LS	*West Bend*
Kuenzli, Helen Daisy se	LS	*Wauwatosa*
Kundert, Harold John	LS	*Madison*
Kurth, Frederic Shirmer	LS	*Wauwatosa*
Kyes, Mary Estelle	LS	*Oshkosh*
Kyle, Elizabeth	LS	*Tomah*
Kyr, Harry Robert	LS	*Cleveland, Ohio*
Laars, Anita Johanna	M	*Tigerton*
LaFrance, Ernest Gerard	ExpC	*Troy, N. Y.*
Lagerloef, Gerell Carl	LS	*Weehawken, N. J.*
Laing, Jeane Maybert	ChC	*Iron River, Mich.*
Lalich, Joseph John	PreMed	*Hurley*
Lamb, Newell Alexander	LS	*St. Charles, Ill.*
Lambeck, Marie Margaret	LS	*Milwaukee*
Lamboley, Beatrice Margaret	LS	*Monroe*
Lamm, Raymond Robert	ChC	*Freeport, Ill.*
Lanckton, John Kyle	LS	*Menomonie*
Landefeld, Sara Emelie	LS	*Monongahela, Pa.*
Lange, Alice Bertha Damerow	LS	*Cedarburg*
Lange, Gretchen Edith	LS	*Eau Claire*
Langhus, Alf Meldahl	PhIII	*Westby*
Langworthy, Roy Lamont	GenC	*Madison*
Lappley, Walter Fredrick	PreMed	*Madison*
Larkin, William Comings	ExpC	*Wheeling, Ill.*
Larson, Albert Wilford	GenC	*Emmons, Minn.*
Larson, Bernice Adelyn	M	*Stoughton*
Larson, Lawrence John	LS	*Madison*
Larson, Lawrence Merril se	AA	*Edgerton*
Larson, LeRoy I.	GenC	*Lodi*
Larson, Malcolm Neil	LS	*Sheboygan*
Larson, Robert Homer	GenC	*Madison*
Laska, Peter	LS	*Milwaukee*
Lasker, Gabriel Ward	ExpC	*Yonkers, N. Y.*
Lau, Mun Kwai	LS	*Honolulu, Hawaii*
Laughlin, John Robert	LS	*Long Beach, Cal.*
Lauson, James G.	LS	*New Holstein*
Lavengood, Francis Leon	LS	*South Bend, Ind.*
Lawton, Helen Roxana	LS	*Brodhead*
Lawton, Janet Margaret	LS	*De Pere*
Lawton, Lawrence Ramon	LS	*Viroqua*
Leahy, Mary Ellen	LS	*Dalton*
LeBlanc, Alice Madeleine	C	*North Attleborough, Mass.*
LeBoy, Betty	LS	*Oak Park, Ill.*
Lebster, Laura Cherrie	LS	*Flint, Mich.*
LeDuc, Ray Joseph	LS	*Milwaukee*
Lee, Herbert Carl	LS	*South Milwaukee*
Lee, Mary Loraine	LS	*De Pere*
Lee, Verna Evelyn	GrN	*Mabel, Minn.*
Leffingwell, Robert Bruce	LS	*Chicago, Ill.*

Lehman, John Winfield	LS	*Sparta*
Lehmann, Margaret Elizabeth	LS	*Watertown*
Leichman, Nathan	LS	*Brooklyn, N. Y.*
Leiter, Nathan	LS	*Newark, N. J.*
Le Mense, Elmer Hubert	ChC	*Oconto*
Lemmer, Ralph Winfield	GenC	*Spooner*
Lerner, Emanuel	ExpC	*Pittsburgh, Pa.*
Lester, Elizabeth	LS	*Madison*
Leverenz, Timm Herman	LS	*New Holstein*
Levine, Abe David	LS	*Ontonagan, Mich.*
Levy, Judith Amy	LS	*Chicago, Ill.*
Lewis, Keith, H.	LS	*Madison*
Lichtenwalter, William Orrin	LS	*Glen Ellyn, Ill.*
Liebman, Rebecca Rose	LS	*Milwaukee*
Linde, Carl Gjermund	LS	*Madison*
Lindert, Oliva Bertha Ella	GrN	*Hustisford*
Lindner, Emil Oswald	LS	*Brooklyn, N. Y.*
Lindstedt, Blanche Helen	LS	*Manitowoc*
Lingard, Harold Thomas	SC	*Mt. Horeb*
Lipkin, Sam J.	PreMed	*Milwaukee*
Lippens Margaret Alice se	PhysEd	*Kewaunee, Ill.*
Little, Isabel Ellen	LS	*Fond du Lac*
Liveright, Herman Elsas	ExpC	*New York, N. Y.*
Loeffler, Harley Carl	ChC	*Columbus*
Loew, Leonore se	LS	*Brooklyn, N. Y.*
Logan, Herma Emma	GenC	*Wilmette, Ill.*
Lohrie, Janice Ione	LS	*Chippewa Falls*
Loomans, Jessie Luella	LS	*Waupun*
Lord, Jodeen	LS	*Aurora, Ill.*
Lotholz, Marie Louise	LS	*Chicago, Ill.*
Lotwin, Edna	LS	*Menomonie*
Love, Jane Rohn	LS	*Milwaukee*
Lowell, Edwin B.	LS	*Madison*
Lowman, Neva Lynne	LS	*Madison*
Luban, Jack	LS	*Milwaukee*
Luby, Margaret Catherine	LS	*Milwaukee*
Luck, Lois Margaret	LS	*Ableman*
Lucke, Alvin Jack	GenC	*Havre, Mont.*
Ludlow, Charles	LS	*Evanston, Ill.*
Luer, Harry Gordon	LS	*Eau Claire*
Luetscher, Marjorie Hernrietta	M	*Chicago, Ill.*
Lufkin, Merritt Newell	ChCC	*Oak Park, Ill.*
Lugoff, Rena Barnett	LS	*Duluth, Minn.*
Lunceford, Marguerite	LS	*Chicago, Ill.*
Lunder, Gertrude Evelyn	PreMed	*Lynn, Mass.*
Lustbader, Philip Frederick	PreMed	*West New York, N. J.*
Lyman, Sydney Louise	LS	*Madison*
Lyons, Erwin John	LS	*Madison*
McCay, Frances Grace	LS	*Walworth*
McClaren, Margaret Ollier	LS	*Racine*
McConnell, Mabel	GenC	*Dexter, Ia.*
McCormick, Darleen A.	M	*Wauwatosa*
MacDonald, Dorothy Elizabeth se	PhysEd	*Marquette, Mich.*
McDonald, Jean Charlesworth	LS	*Oak Park, Ill.*
McDonald, Jean Kathryn se	AA	*Madison*
MacEachern, George Angus	LS	*Prairie du Chien*
McEldowney, Helen Alberta	LS	*Chicago Heights, Ill.*
MacGaffey, Ethel Del	LS	*Waupun*
McGarty, Walter	PreMed	*Mauston*
McGreane, Norbert Arthur	PreMed	*Darlington*
McKahan, George A.	LS	*Wausau*

McKenna, Marcia Mary	LS	*Madison*
McKenzie, Margaret	LS	*Springfield, Ohio*
McKichan, MacArthur	LS	*Fennimore*
MacKillican, Mary Margaret	LS	*Hibbing, Minn.*
McMahan, Joe Paul	PreMed	*Madison*
McManamy, Grace Elizabeth	LS	*Madison*
McManus, Gabriel Clarence	LS	*Butte, Mont.*
MacMillen, Emery Hyatt	M	*Richland Center*
MacMillan, Ruth Antoinette	LS	*Madison*
McMillan, William Black	LS	*Arlington*
McMurray, Elmer Brown Creal	LS	*Madison*
MacNeil, Frances Moore	LS	*Decorah, Iowa*
Mabbet, Charles	LS	*Madison*
Mack, David	GenC	*La Porte, Ind.*
Mackevich, Audrey Genevieve	LS	*Marinette*
Mackie, Nancy Jane	LS	*Springfield, Ill.*
Madland, Lawrence Franklin	PhIV	*Blair*
Magidoff, Robert	LS	*Brooklyn, N. Y.*
Malcolm, Pauline Iono	LS	*Madison*
Malecke, Dolores Barbara	LS	*Stoughton*
Malveg, Orval Vilas	LS	*Sabieski*
Manchester, Betty Strayer se	AA	*Chicago, Ill.*
Manzer, Jane M. se	AA	*Madison*
Marcus, Paul Lester	LS	*Muscoda*
Margolis, Milton J.	LS	*Milwaukee*
Markl, Olive Gertrude	LS	*Congress Park, Ill.*
Marks, Ardele Renee	LS	*Chicago, Ill.*
Marks, Lester Victor	ExpC	*Cincinnati, Ohio*
Marks, Virginia Ethel	LS	*Madison*
Marling, Eleanor Adelaide	M	*Madison*
Marlow, Lenore Aletta	LS	*Oconomowoc*
Marsden, Ralph Walter	GenC	*Edgerton*
Marsh, Edward Callaway	ExpC	*Milwaukee*
Marshall, Mary Vine	LS	*Fond du Lac*
Marston, Lewis Chauncy	LS	*Beloit*
Martin, Albert George	PreMed	*Milwaukee*
Martin, Charles Alexander	GenC	*Milwaukee*
Martin, Roger Edwin	ExpC	*Merrill*
Martineau, Elinor Claire	LS	*Marinette*
Masino, Anne	LS	*Madison*
Masters, Casimir Louis	LS	*Milwaukee*
Mathews, Beatrice	LS	*Sturgeon Bay*
Matthias, Lorraine Matilda Mae	LS	*Antigo*
Mauer, Kathryn Elsbeth	GrN	*Monroe*
Mauermann, Florence Leona	LS	*Brodhead*
Maurer, Claude Mitchell	LS	*Wausau*
Maurer, Robert Adam	LS	*Washington, D. C.*
Maurus, Anna Marie se	PhysEd	*Chicago, Ill.*
Maxim, Edna Lottie	GrN	*Park Falls*
May, Henrietta Frances se	AA	*Kirkville, Mo.*
Mayer, Edward Franklin	LS	*Milwaukee*
Mayer, Letitia se	AA	*Erie, Pa.*
Mayer, Nathan	LS	*Peoria, Ill.*
Mayer, Rae Virginia	LS	*Winnetka, Ill.*
Mazur, Isadore Erve	PreMed	*Milwaukee*
Mead, Warren	GenC	*Madison*
Meagle, Howard Wilson	LS	*Wheeling, W. Va.*
Mealey, Alice Elizabeth	LS	*East Cleveland, Ohio*
Medved, Alphonse Anthony	LS	*Milwaukee*
Meier, Magnus Andrew, Jr. se	PhysEd	*Wyandotte, Mich.*
Meier, Robert Charles	LS	*Racine*

Meinzer, Katherine Louise se	PhysEd	*Madison*
Meis, Alfred, Jr.	ExpC	*Kenosha*
Meisels, Helen Beatrice	PreMed	*New York, N. Y.*
Melvin, Everett Kenneth	LS	*Fond du Lac*
Menges, Ruth Genevieve	LS	*Madison*
Merrell, Alice Jane	LS	*St. Louis, Mo.*
Mershon, Donald Wilson	ExpC	*Wauwatosa*
Messerli, Merrill Hall	M	*Madison*
Mett, Frederick Paul	LS	*Milwaukee*
Mewhinney, Melba Margaret	M	*Holland, Tex.*
Meyer, Curtis Edward	ChC	*Milwaukee*
Meyer, Eileen Getrude se	LS	*Fond du Lac*
Meyer, Frederick John	ChCC	*West Salem*
Meyer, Gertrude Dorothea	LS	*New Holstein*
Meyer, Minnie Marie	PhIII	*Bonduel*
Meyer, Ralph	LS	*Rock Island, Ill.*
Meyer, Ruth Jane	LS	*Milwaukee*
Meyer, Warren George	LS	*Madison*
Meyers, Daniel Anthony	PreMed	*Marinette*
Meyst, William Willard	GenC	*Morton Grove, Ill.*
Michaelis, Randolph Henry	LS	*Madison*
Michell, Jerome Norman	LS	*Chicago, Ill.*
Michelson, Barnard	LS	*Chicago, Ill*
Michelson, Cordelia Mae se	AA	*Madison*
Michler, Harold George	LS	*Fond du Lac*
Milbee, Neil Hansford	ExpC	*Marshfield*
Milbee, Robert Thomas	PhIII	*Milwaukee*
Miles, Meryl Mae se	PhysEd	*Jackson, Mich*
Militzer, Walter E.	LS	*Arlington Heights, Ill.*
Millard, Edward Paterson	PreMed	*New London*
Miller, Clarence Glen	PhIV	*Westboro*
Miller, Ruth Irene	CH	*Madison*
Minahan, Roger Copp	GenC	*Green Bay*
Mindermann, Robert Frederick	PreMed	*Madison*
Minton, Carl Welch	LS	*Detroit, Mich.*
Minton, Maurice Wilbert se	PhysEd	*Minocqua*
Modisette, Miriam se	AA	*Milwaukee*
Molinaro, Frank se	PhysEd	*Kenosha*
Money, Frank Reed	LS	*Milwaukee*
Monteith, Ralph William	PreMed	*Monroe*
Monthey, Calixta Ann	LS	*Portage*
Mooney, Mary Lourdes	LS	*Chicago, Ill.*
Moore, Eugene Harvey	GenC	*Milwaukee*
Morgan, Warren Mills	LS	*Hawarden, Iowa*
Moriarty, Margaret Rose	LS	*Bear Creek*
Morris, Jane	LS	*Michigan City, Ind.*
Morris, Norma Genevieve	LS	*Oconomowoc*
Morrison, Margaret Frances	CH	*Concord, N. H.*
Morrissey, John Beamish	GenC	*Elkhorn*
Morse, Llewellyn Arthur	PreMed	*Madison*
Morse, Robert Bolzell	LS	*Lancaster*
Mortimer, Alfred Donovan	LS	*Wonewoc*
Mortonson, Donald Williams	ExpC	*Milwaukee*
Moser, Marion Janet se	AA	*Cleveland, Ohio*
Moser, Mary Frances	LS	*Wapakoneta, Ohio*
Mucci, Alba Nancy	LS	*Waterford*
Mueller, Irwin Matt	LS	*Hartford*
Mueller, John Edward	LS	*Milwaukee*
Muenster, Otto Nicholas	LS	*New Holstein*
Mulberger, Henry Charles	LS	*Watertown*
Mullen, Lois Geraldine	LS	*Madison*

Mulliken, William Eugene	LS	*Grand Rapids, Mich.*
Mundt, Ruth Lou	LS	*Marinette*
Muntz, Wendell Edward	LS	*Elgin, Ill.*
Murdock, John Thurman	PreMed	*Tulsa, Okla.*
Murphy, Dorothea Margaret	LS	*Mazomanie*
Murphy, Elizabeth Gertrude	CH	*Milwaukee*
Murphy, Engenia Elizabeth se	PhysEd	*Great Falls, Mont.*
Murphy, Marie Louise	LS	*Lake Mills*
Murphy, Reba Pauline	LS	*Kokomo, Ind.*
Murphy, Robert Ternes	LS	*Mount Horeb*
Nagel, Edna Ottilie	LS	*Antigo*
Nagler, Robert William Torelle	ChC	*Madison*
Nashold, Eugene Raymond	GenC	*Fall River*
Neal, Maurice Martin	GenC	*Racine*
Nee, Helen Mary se	LS	*Spring Green*
Neitzel, Esther Leora	LS	*Horicon*
Nelson, Bernice Sally	LS	*Madison*
Nelson, Douglas	LS	*Madison*
Nelson, Fred Allan	LS	*Edgerton*
Nelson, Leonard Theodore	LS	*Washburn*
Nelson, Parnell William se	PhysEd	*Madison*
Neufeld, Maurice Frank	ExpC	*Washington, D. C.*
Neuman, Dorothy Helen	LS	*Wausau*
Neuman, Paul Henry	LS	*Watertown*
Neverman, Doris Louise	PreMed	*Marinette*
Newcomb, Margaret Rosamond	GenC	*Pepin*
Newing, Helen Minnie se	PhysEd	*Milwaukee*
Newton, Ralph Kermit	LS	*Milwaukee*
Nichol, Jane	LS	*Paducah, Ky.*
Nichols, Alex. N.	ExpC	*LaCrosse*
Nordby, Robert Arthur	PhIII	*Cumberland*
Norris, Edward John	LS	*Viola*
North, Jeannette Gertrude	LS	*Madison*
Novick, David	LS	*Madison*
Novick, Max	PhysEd	*Madison*
Noyes, Harry Jennings	GenC	*Milwaukee*
Nuber, Catherine Claire	LS	*Marshfield*
Nuckles, Gladys E.	LS	*Madison*
Nygard, Russell Oliver	LS	*Mount Horeb*
Oakes, LaRoy Oliver	LS	*St. Charles, Ill.*
O'Connell, Mary Grace	LS	*Chicago, Ill.*
O'Connor, Daniel Charles	LS	*Portage*
Ogan, Vera May se	PhysEd	*Winnetka, Ill.*
O'Gara, Emery Michael se	AA	*Spooner*
Ogle, Reidar Christian Gerhardt	PreMed	*LaCrosse*
Olbrich, Sue Winsdale North se	AA	*Madison*
Oliver, Wesley B.	PreMed	*Oconomowoc*
Olson, Elnor R.	PreMed	*Centuria*
Olson, Lionel Arnold	PhIII	*Tripoli*
Olson, Oscar Louis	LS	*Kenosha*
Opper, Lewis Burger	LS	*Louisville, Ky.*
Ortegon, Luis, Jr.	LS	*Saltillo, Coah, Mex.*
Orth, Arthur Joseph	GenC	*South Milwaukee*
Osmond, Margaret Ann	LS	*Milwaukee*
Osterheld, Willard Earle	PreMed	*Stoughton*
Ostrander, Marjorie A.	LS	*Madison*
Otis, Gladys Marie	M	*Madison*
Otto, Herbert R.	ExpC	*Milwaukee*
Owen, Betsy Sprague	LS	*Madison*
Owen, Merle Pickford	LS	*Madison*
Owen, Naomi	LS	*Sussex*

Owens, Jerome Arthur	LS	*Cambridge*
Pacetti, Nello Anthony	LS	*Kenosha*
Pacl, Rudolph Stanley	LS	*Hillsboro*
Pagel, Emil Walter	LS	*Stevens Point*
Palakow, Marshall Jack	LS	*Milwaukee*
Paley, Ida	LS	*Madison*
Paley, Kate	LS	*Madison*
Palles, Sol Laurel	GenC	*Milwaukee*
Palmer, Ann Rolston	LS	*Janesville*
Palmer, John Spaulding	PreMed	*Waukegan, Ill.*
Palmer, Lewis Charles	GenC	*Madison*
Pansch, Frank Norman	ChCC	*Oshkosh*
Paquin, Marjorie Capell	GrN	*Park Falls*
Paratore, Francesca	LS	*Madison*
Parker, James Stratton	ExpC	*Cambridge, Mass.*
Parker, Thomas Leland	PreMed	*Racine*
Parrish, Donna Dee	LS	*Saugatuck, Mich.*
Parrot, Mary O'Hara	LS	*Hollywood, Cal.*
Parson, Francis Hardwick	LS	*Darlington*
Paschong, William George	GenC	*Delavan*
Patmythes, George A., Jr.	LS	*Milwaukee*
Pauls, Dayton Frank	LS	*Madison*
Pavey, Eve-Lynn May	LS	*Chicago, Ill.*
Pearlman, Hannah M.	LS	*Brooklyn, N. Y.*
Pearson, Virginia Earle	LS	*Danville, Ill.*
Peck, Theodora Letta	LS	*Madison*
Peckarsky, Charles	LS	*Milwaukee*
Pegg, Alison Gifford	LS	*Chicago, Ill.*
Pelkey, Ralph Bernard	PreMed	*Coleman*
Pembleton, Williams Edwin	LS	*Sauk City*
Perkins, Donald	LS	*Cando, N. Dak.*
Perkins, Dorothy Mylroie	LS	*Dodgeville*
Perlman, Emily Mildred	LS	*Madison*
Perlman, Phyllis	M	*Eveleth, Minn.*
Perry, Justine	LS	*Pontiac, Mich.*
Pesetsky, Gustave	LS	*Sheboygan*
Peters, Henry Pierce	LS	*Glenwood, Minn.*
Petersen, Sylvia Gale	LS	*Madison*
Peterson, Dorothy Marguerite	LS	*Superior*
Peterson, John Margenius	LS	*Colby*
Peterson, Russell Henry	ExpC	*Beloit*
Pfeifer, Carl Lowell	GenC	*Milwaukee*
Phillips, Margaret Sutton	LS	*Greenville, Pa.*
Pierce, Ruth E.	M	*Stevens Point*
Pierson, Marden Stokeley	LS	*Madison*
Pilot, Irene Dorothy se	AA	*Janesville*
Pinkerton, Katharine Edna	GrN	*Prairie du Chien*
Pitzner, Myrtle Louise se	PhysEd	*Johnson Creek*
Planky, James Grennon	LS	*Madison*
Platz, Charles Duncombe	LS	*Fond du Lac*
Pleck, Kathryn Mary	LS	*Sturgeon Bay*
Plonsky, Benjamin David	ExpC	*Chicago, Ill.*
Plous, Fred	LS	*Kenosha*
Polacheck, Walter Sigmund	PreMed	*Milwaukee*
Polakow, Harry	LS	*Gary, Ind.*
Polaski, Carolyn Charlotte	LS	*Nashotah*
Pollo, Marguerite Katherine	LS	*Milwaukee*
Pool, Gerald Eugene	LS	*Fohler*
Pooley, Dortha se	AA	*Aurora, Ill.*
Pope, Carl Bender	LS	*Ableman*
Porter, Alice Grace	LS	*Calvin, N. Dak.*

Porter, Alice Jane se	AA	*Milwaukee*
Porter, Edna Lorraine	ChCC	*Evansville*
Porter, Roderick Arthur	LS	*Portage*
Posey, Dorothea Helena	LS	*Chicago, Ill.*
Posner, Sidney	PreMed	*Milwaukee*
Powers, Jean Lucille	LS	*Battle Creek, Mich.*
Pratt, Margery Lois	LS	*Richland Center*
Pray, Harriet Mears	LS	*Ashland*
Previant, David	LS	*Milwaukee*
Proctor, John Phelps	ExpC	*Eau Claire*
Prouty, Margaret Lucile	LS	*Richland Center*
Provus, Mildred Mary	LS	*Chicago, Ill.*
Pulliam, May Edith	LS	*Chicago, Ill.*
Purcell, Vaun Ralphine	LS	*River Forest, Ill.*
Purdun, Betty Allison	LS	*Bozeman, Mont.*
Putney, George Bryant	LS	*Milwaukee*
Pyre, Jackman	PreMed	*Madison*
Quale, Ralph William N. se	AA	*Madison*
Quam, Pearl Jensine	LS	*Stoughton*
Quentin, Gretchen	LS	*Milwaukee*
Quick, Robert Chapman	CH	*Manistique, Mich.*
Quinn, Jerome F.	GenC	*Green Bay*
Quinn, Robert Emmet	PreMed	*Blanchardville*
Radebaugh, Harold Clark	GenC	*Walworth*
Radebaugh, Laura Jean	M	*Walworth*
Rahn, Dorothy	LS	*Wauwatosa*
Rahn, Henry Ernest	LS	*Colby*
Raimond, Joe	PreMed	*Madison*
Ramlow, Arnold Carl	LS	*Milwaukee*
Randall, Charlotte Ann	LS	*Chicago, Ill.*
Randolph, Bruce Bowman	ExpC	*Milwaukee*
Raney, Richard Frederic	LS	*Milwaukee*
Rankin, Charles Wilson	ExpC	*Highland Park, Ill.*
Rasmussen, Dorothy May	LS	*Park Falls*
Raszkowski, Harvey Joseph	PreMed	*Ashland*
Rathbun, Norma Lucille	LS	*Mendota*
Rau, Clyde	LS	*Two Rivers*
Rayome, Robert Joseph	GenC	*West Bend*
Reardon, Ethene Ann	LS	*Hurley*
Rebscher, Harold Rudolph	GenC	*Chicago, Ill.*
Redderson, Edna Lois se	AA	*Burnett*
Redeker, Clyde Austin	LS	*Elgin, Ill.*
Redelings, Donald Otto	GenC	*Porterfield*
Rehwald, Richard Trilling	GenC	*Racine*
Reich, Vernon W.	GenC	*Forest Park, Ill.*
Reichenbaum, Robert	LS	*Milwaukee*
Reid, Edith Wilhelminia	GrN	*Niagara*
Reid, James Thompson	ExpC	*Rockford, Ill.*
Reierson, Maynard	LS	*Madison*
Reilly, Regina Lucille	LS	*Madison*
Reinbald, Dorothy Marie	LS	*Chilton*
Reinhardt, Alice Marie	LS	*Delafield*
Reisky, Arnold	ExpC	*New York, N. Y.*
Reist, Gwendola Margaret se	AA	*Madison*
Reiten, Raymond Hauken	PhIII	*Rice Lake*
Reul, Andreas George	ExpC	*Helenville*
Reynolds, Mary Ellen se	AA	*Madison*
Reynoldson, Jack	GenC	*Sioux Falls, S. Dak.*
Rice, Maurice se	AA	*Milwaukee*
Richards, Geraldine Jewell	LS	*Rochester, N. Y.*
Richter, Harold John	GenC	*Madison*

Rickard, Harlowe Mads	LS	*Merrillan*
Riddle, Joseph Gillette	ExpC	*Winnetka, Ill.*
Ridley, Patsy Cartmell	GrN	*Houghton, Mich.*
Rieboldt, Mabel Augusta	LS	*Manitowoc*
Riewe, Theodore Eugene	PreMed	*Oconto*
Riffle, Iva Mae	LS	*Madison*
Rinelli, William Richard	ChC	*Kenosha*
Rintelman, Phyllis Buss	PhIII	*Madison*
Rischmueller, Henry George	GenC	*Sauk City*
Rittenhouse, Daniel Robbins	LS	*Chicago, Ill.*
Roberts, Letitia Evans	LS	*Milwaukee*
Roberts, Marvin Sanderson	LS	*Lake Mills*
Roberts, Tom William	GenC	*Milwaukee*
Robinson, Pauline	LS	*Lebanon, S. Dak.*
Rockman, Julian Edward	LS	*Barron*
Roddis, Catherine Prindle	LS	*Marshfield*
Rode, Alfred Milton	ChC	*Hartford*
Roden, Edward Watkinson se	PhysEd	*Madison*
Rodolf, Mary Kathryn	LS	*Tulsa, Okla.*
Roeber, August Herbert	LS	*Medford*
Roehl, Frederick Christian	LS	*Lake Mills*
Roehrborn, Harold Louis	LS	*Milwaukee*
Roethe, John Towne	ExpC	*Edgerton*
Rogers, Sarah	LS	*Kansas City, Mo.*
Rohde, Walter Emil	LS	*Camp Douglas*
Roine, Harry William	LS	*Superior*
Roos, Heidi	M	*River Forest, Ill.*
Roos, Pearl	M	*Forest Park, Ill.*
Rose, Jean Fred	LS	*Milwaukee*
Rosenbaum, Joseph George	PreMed	*Brooklyn, N. Y.*
Rosenberg, Charles Freelan	PreMed	*Madison*
Rosenberg, Walter Hodes se	AA	*New York, N. Y.*
Rosenblatt, Bernice	LS	*New Rochelle, N. Y.*
Rosenthal, Lewell	LS	*Cleveland Heights, Ohio*
Ross, Malcolm	LS	*Benton Harbor, Mich.*
Rossman, Kathryne Joy	LS	*Marshfield*
Roth, Herbert B.	LS	*Milwaukee*
Roth, Sylvia Lilien	LS	*Akron, Ohio*
Rothman, Reevynn Raymond	PreMed	*Syracuse, N. Y.*
Rothschild, Robert Lehwald	LS	*Chicago, Ill.*
Rottman, Belle se	PhysEd	*Milwaukee*
Rowland, Katharine Fairleigh	M	*St. Joseph, Mo.*
Roy, George Thomas, Jr.	ExpC	*Memphis, Tenn.*
Rubado, William Mack se	PhysEd	*Madison*
Rubin, David	LS	*Madison*
Rubnitz, Esther Rose	LS	*Madison*
Ruedi, Roy Theron	LS	*Hartford*
Ruenitz, John Somerville	ExpC	*Springfield, Minn.*
Runnestrand, Arthur Eugene	LS	*Ettrick*
Russell, Stella Elizabeth	LS	*Wautoma*
Rutel, Abraham	PreMed	*Madison*
Ryan, Veronica Claire	LS	*Mount Horeb*
Rydeen, Clarence Ernest	LS	*Kenosha*
Ryden, Kenneth Emery	LS	*Madison*
Saeger, Richard Gough	GenC	*Milwaukee*
Sager, Mary Elizabeth	LS	*Chicago, Ill.*
Sainer, Anna Estell	LS	*Madison*
Salisbury, Lawrence Darwin	LS	*Clinton*
Salk, Jerome se	PhysEd	*Chicago, Ill.*
Salk, Mabel Molly	LS	*Madison*
Sarasy, Eva Racine	LS	*Janesville*

Saridakis, Edwin John	LS	*Eagle*
Sarles, Fred Jerome	GenC	*Madison*
Sarles, Phillip William	LS	*Madison*
Sauthoff, Hermine Elizabeth se	PhysEd	*Madison*
Sawyer, Ruth Josephine	LS	*Hartford*
Scanlan, Joseph Francis	ExpC	*Chicago, Ill.*
Scantlin, Stuart McMullen	GenC	*Oak Park, Ill.*
Scarlos, Anita	M	*Chicago, Ill.*
Schaberg, Esther Marion	LS	*Kalamazoo, Mich.*
Schacht, Kathleen Crichton	LS	*Lancaster*
Schacht, Robert Siemon	LS	*Erie, Pa.*
Schaenzer, Seraph Francis	LS	*Wabeno*
Schanel, Eleanor Martha	LS	*Madison*
Schantz, Harold John se	IndEd	*Madison*
Schapiro, Jack	PreMed	*Brooklyn, N. Y.*
Scheibe, Elinor Kathryn	LS	*Cloquet, Minn.*
Scheuerell, Rosella Johanna	LS	*Sun Prairie*
Schilder, Frances Mary	LS	*Sheboygan*
Schimke, Raymond Carl	LS	*New London*
Schmelzer, Gregory John	LS	*Madison*
Schmerling, Louis	ChC	*Milwaukee*
Schmidt, Berta	LS	*Northfield, Minn.*
Schmidt, Irwin William C.	LS	*Madison*
Schmidt, Virginia Frances	LS	*Chicago, Ill.*
Schmitz, Mark Joseph	PreMed	*Madison*
Schmuckler, Samuel William	LS	*Beaver Dam*
Schneider, Harvey Henry se	PhysEd	*Schofield*
Schober, Dorothy Florence	LS	*Green Bay*
Schoen, Charles Arthur	LS	*Milwaukee*
Scholes, Jessamine Camp se	LS	*Bushnell, Ill.*
Scholtz, Gertrude Petrine	LS	*Wausau*
Schonberger, Sidney	LS	*Chicago, Ill.*
Schowalter, Henry Otto	LS	*West Bend*
Schrom, Dorothy Frances	LS	*Rockford, Ill.*
Schrubb, Lucille Dorothy	LS	*Chicago, Ill.*
Schubert, Mary A.	LS	*Marshfield*
Schuette, Norman Henry	LS	*Sheboygan*
Schultz, Alfred George	PreMed	*Beardstown, Ill.*
Schultz, George George	LS	*Appleton*
Schultz, Marjorie Esther	LS	*Fox Point*
Schulz, Ralph Henry	PreMed	*Milwaukee*
Schumacher, Edward	LS	*Chicago, Ill.*
Schwab, William Samuel	LS	*Columbus, Miss.*
Schwartz, Bernard William	LS	*Two Rivers*
Schwartz, Evelyn Louise	LS	*New London, Conn.*
Schwartz, Ruth F.	LS	*Racine*
Schwartz, Ruth M.	LS	*Tigerton*
Schweers, Harriet M.	LS	*Shawano*
Schwinzer, Herbert Lincoln	PreMed	*Long Island, N. Y.*
Schwoegler, Edward John	ChCC	*Madison*
Scott, Andrew Page	LS	*Denver, Colo.*
Scott, John Stevens	ExpC	*Warrens*
Scott, Margaret Josephine	LS	*Savanna, Ill.*
Seader, Stanley	LS	*Far Rockaway, N. Y.*
Seals, Ferree Anna	LS	*Madison*
Searles, John Rexford	LS	*Ironwood, Mich.*
Seeber, Harold Francis	LS	*Madison*
Seelig, Eugene Josef	ChC	*Milwaukee*
Seibel, Wilma Marie	LS	*Manitowoc*
Seifert, Kenneth Anthony	PreMed	*Madison*
Selmer, Helen Ruth	LS	*Green Bay*

Severson, Donald Harry	LS	*Neenah*
Seyberth, Leonard Jones	LS	*Eau Claire*
Seymour, Marvin Clinton	LS	*Racine*
Shamburger, Rufus Van	GenC	*Dallas, Tex.*
Shannon, Patrick Sherman	PreMed	*Madison*
Shapiro, Leonard Samuel	PreMed	*Milwaukee*
Sharpe, Donald Carlyle	PreMed	*Verona*
Shaw, Ted Wells	GenC	*River Forest, Ill.*
Shaw, Vera Anita se	PhysEd	*Montevideo, Uruguay*
Shelden, James Thomas	PreMed	*Rochester, Minn.*
Shelton, Thomas Peter	PreMed	*Mauston*
Shepard, Edith	LS	*DePere*
Shepard, John William	M	*Pekin, Ill.*
Sherman, William Cyrus	ChC	*Fort Atkinson*
Sherrill, Celia	LS	*Evanston, Ill.*
Sherwin, Roberta Mae	LS	*Newark, N. J.*
Shively, Ruth Elizabeth	LS	*Middletown, Ohio*
Shoberg, Vera Emma	PreMed	*Proctor, Minn.*
Shorthouse, Lyulph Guy, Jr.	GenC	*Danville, Ill.*
Shovers, Iman	LS	*Racine*
Shutkin, Manfred Ned	PreMed	*Milwaukee*
Sickinger, Claude Albert	LS	*Two Rivers*
Sickinger, Kathryn Mary	GrN	*Monroe*
Siegel, Curtis Owen	GenC	*Portage*
Siegel, David Merton	LS	*Superior*
Siegel, Maurice Julian	ExpC	*Madison*
Sievenpiper, Harley H.	PreMed	*Janesville*
Silber, Fred David	ExpC	*Ravinia, Ill.*
Silver, Ethel	LS	*Milwaukee*
Silverman, Daniel	ExpC	*Elkins Park, Pa.*
Silverman, Selig Jay	LS	*Brooklyn, N. Y.*
Simmons, Harlen Douglas	GenC	*New York, N. Y.*
Simon, Hilton Leonard	LS	*Cleveland, Ohio*
Simon, Max Raymund	ExpC	*Brooklyn, N Y.*
Simpa, Josephine Marie	LS	*Madison*
Simpson, Alton John	LS	*Sturgeon Bay*
Simpson, Clinton LeRoy	PhIII	*Viroqua*
Simpson, Emily Nell	LS	*Winnetka, Ill.*
Simpson, Mary Reed se	AA	*Eagle Pass, Tex.*
Simpson, Robert Jennings	LS	*Sturgeon Bay*
Simrell, Josephine Frances	LS	*Oklahoma City, Okla.*
Sinclair, John Malcolm	LS	*Winter Park, Fla.*
Sindberg, George Marion se	PhysEd	*Oconto*
Singer, Leo se	PhysEd	*Waukegan, Ill.*
Sippy, Elizabeth M.	GenC	*Twin Bluffs*
Sisserman, Sara	M	*Milwaukee*
Skagerberg, Carl Bernhard	ExpC	*Ogema*
Skow, George Dominico	PreMed	*Racine*
Skroch, Everett Paul	LS	*Neillsville*
Skusa, Elsie Ann	LS	*South Bend, Ind.*
Skusa, Leona Lillian	LS	*South Bend, Ind.*
Slater, Whedon	LS	*Springfield, Ill.*
Slattery, William	LS	*DuBois, Pa.*
Slavick, Max	LS	*Milwaukee*
Slette, Kenneth Alfred	LS	*Blair*
Slightam, Mary Madeline	LS	*Madison*
Slitor, Richard Eaton	LS	*Waukon, Iowa*
Slotznick, Sidney	ExpC	*Flushing, N. Y.*
Smale, Marjorie Jean	LS	*Racine*
Smart, Harriet M.	LS	*Mineral Point*
Smathers, Millicent Becker	LS	*Benton Harbor, Mich.*

Smedal, Harold Aaswald	PreMed	*McFarland*
Smith, Carl Macy	PreMed	*Unity*
Smith, Carolyn Frances se	AA	*Madison*
Smith, De Alton	GenC	*Eau Claire*
Smith, Laban Conrad	LS	*Madison*
Smith, Marianne Emelie	LS	*Madison*
Smith, Melville Warren	LS	*Madison*
Smith, Robert Carney	LS	*De Pere*
Smith, Roy Ivan se	IndEd	*Rio*
Snavely, Thayer Charles	LS	*Green Bay*
Snoeyenbos, Willard Johnson	GenC	*Baldwin*
Snyder, Harriet Christine	LS	*Hartford*
Snyder, Margarett	M	*Marion, Ind.*
Sobel, Mathan Morris	LS	*Wauwatosa*
Sober, Lily se	AA	*Brooklyn, N. Y.*
Solinger Leo Phillip	LS	*Appleton*
Solmson, Harry B.	LS	*Little Rock, Ark.*
Solomon, Dorothy	LS	*Chicago, Ill.*
Solveson, Clara M.	LS	*Ellsworth*
Sommerfield, Arthur se	PhysEd	*Chicago, Ill.*
Sondern, Eleanor Marie se	PhysEd	*Madison*
Sondern, Lucille Agnes se	PhysEd	*Madison*
Sorenson, Cora Josephine	LS	*Mt. Horeb*
Sorge, Elizabeth Mildred	GrN	*Reedsburg*
Southworth, Barbara Jane	LS	*Madison*
Spahn, William Henry	GenC	*New York, N. Y.*
Spencer, Zella Mae	LS	*Gary, Ind.*
Sperle, Rodney Alan	PreMed	*Madison*
Spindler, Walter Oscar	LS	*Elkhart Lake*
Sporer, Evelyn Alice	LS	*Manitowoc*
Spring, Royston Follner	LS	*Glen Ridge, N. J*
Springberg, Mildred Sadyl	LS	*Madison*
Stark, Earl Frederick	PreMed	*Hartford*
Starks, Earl Albert	LS	*Madison*
Steele, Paula Florence	LS	*River Forest, Ill.*
Steen, Marvin Henry	PreMed	*Bowling Green, Ohio*
Stein, Mildred Jean	LS	*Rice Lake*
Steinberg, Dorothy Louise	LS	*New York, N. Y.*
Steingoetter, Marian Dew	PhIII	*Belleville, Ill.*
Steinhoff, Harold Ludwig	LS	*Platteville*
Steinman, Samuel	LS	*New York City, N. Y.*
Steinmetz, Christian Robert	LS	*Milwaukee*
Steinmetz, June Dorothy se	LS	*Milwaukee*
Stephens, Mary Esther	LS	*Spooner*
Stephens, Roger Alton	LS	*Brodhead*
Stephenson, Robert Earl	LS	*Madison*
Stern, Allen Irving	LS	*Milwaukee*
Stern, Jessie Gendelman	LS	*Milwaukee*
Sterrett, Marion Quain	LS	*Bismarck, N. Dak.*
Stevenson, Anna Lucille	LS	*Arlington*
Stevenson, Clyde Alan	PreMed	*Milwaukee*
Steves, Richard Jerome	PreMed	*Menomonie*
Still, Donald James	LS	*Woodstock, Ill.*
Stolp, Alfred George se	PhysEd	*Kenosha*
Stone, Phil James, Jr.	LS	*LaCrosse*
Stophlet, Eleanor Gilmer	LS	*Madison*
Stowe, Seymour Franklin	LS	*Peoria, Ill.*
Strand, Carter Audley	LS	*Iola*
Strawhince, Peter Joseph	ChCC	*Kenosha*
Streeter, Marion Elizabeth	LS	*Wichita, Kans.*
Streich, Mary Jane	LS	*Milwaukee*

Strelitz, Mildred Cora	LS	*Milwaukee*
Strenge, Fred August	LS	*Tomahawk*
Stromberg, Warren Hall	LS	*Chicago, Ill.*
Stuelke, Gordon Ahrens	PhIII	*Kilbourn*
Stuessy, Melvin Wallace	PreMed	*Madsion*
Sturgeon, Aaron Golden	PhIII	*Owen*
Suhr, Loretta Elizabeth	LS	*Madison*
Suits, Marian Hamilton	LS	*Kenilworth, Ill.*
Sullivan, Frank William	LS	*Williams Bay*
Sullivan, Jessie Frieda	LS	*Madison*
Summers, James Livingstone	LS	*Milwaukee*
Sundgaard, Arnold	LS	*Gladstone, Minn.*
Surenson, Alice Evelyn	LS	*Viroqua*
Sutherland, Georgann	LS	*Duluth, Minn.*
Swafford, Marjorie Lucy	LS	*Madison*
Swallow, Barbara Northup	LS	*Danville, Ill.*
Swan, Evelyn Frances	LS	*Fort Dodge, Iowa*
Swanson, Arthur William	LS	*Kenosha*
Sweeney, Margaret Mary	LS	*Memphis, Tenn.*
Sweet, Ben	LS	*Madison*
Sweet, Gordon	LS	*Madison*
Sweet, Hubert Richardson	LS	*Milwaukee*
Swerdloff, Sam	LS	*Madison*
Swierski, Anna	LS	*Chicago, Ill.*
Swiggum, Elaine Rhena	GrN	*Madison*
Taft, Philip	LS	*New York, N. Y.*
Taliaferro, Odell Alvestor	ChC	*Kewanee, Ill.*
Tamblingson, Wilma Verle se	PhysEd	*Fort Atkinson*
Tanck, Raymond H.	LS	*Beresford, S. Dak.*
Tanenbaum, Lewis	LS	*Providence, R. I.*
Taplick, Robert William	LS	*Madison*
Tarnutzer, Alice Evelyn	LS	*Madison*
Taxey, Frema Mae	LS	*Milwaukee*
Taylor, Archie Joseph	PhIII	*Warren, Ill.*
Taylor, Evelyn Mae se	LS	*Waupaca*
Taylor, Philip Addison	LS	*Indianapolis, Ind.*
Teague, Phyllis Marion	LS	*Mineral Point*
Terhorst, John Henry	LS	*Milwaukee*
Terry, Helen Ann	LS	*Baraboo*
Teschan, Dorothea Louise	LS	*Milwaukee*
Tesovnik, Mary	LS	*Milwaukee*
Thatcher, Herbert Stanley	LS	*Milwaukee*
Thomas, Dolores Elizabeth	GrN	*Wauwatosa*
Thomas, Elizabeth Lenore	LS	*Green Bay*
Thomas, Jean Kenney	LS	*Waukegan, Ill.*
Thomas, Landon Bailey	LS	*Madison*
Thompson, Cyrus Lytle	LS	*Coon Valley*
Thompson, John Harris	LS	*Wausau*
Thompson, John Lloyd	GenC	*Gas City, Ind.*
Thompson, Margaret Leithe	LS	*Madison*
Thurber, Mariana Jean	LS	*Darlington*
Thurow, Cordula Clara	LS	*Waterloo*
Tigges, Wilbur Gabriel	PreMed	*Mosinee*
Tilker, Selma Elta	GrN	*Madison*
Tilton, Gertrude Alice	GrN	*Madison*
Tischler, Kirk Arthur	ExpC	*New Rochelle, N. Y.*
Tobin, William Williard	ExpC	*Channing, Mich.*
Todd, Ethel May se	M	*Gering, Neb.*
Tolins, Elinor Harriet	LS	*New York, N. Y.*
Tomhave, Viola E.	LS	*Chicago, Ill.*
Tompkins, Samuel Yewell	LS	*Owensboro, Ky.*

Tomkins, Willard	M	*Green Bay*
Tomskey, Gilbert Charles	PreMed	*Port Edwards*
Tong, Francis Hillard	PreMed	*Madison*
Tormey, Weston Cole	GenC	*Madison*
Torn, Harvey August se	PhysEd	*Milwaukee*
Tornowske, Russell Webb se	PhysEd	*Patch Grove*
Torrance, Elizabeth Beverly	LS	*LaCrosse*
Toubin, William Elliott	PreMed	*Brooklyn, N. Y.*
Townsend, John Baker	LS	*Milwaukee*
Trachte, Barbara Florence se	AA	*Madison*
Trapani, Anthoney Leo, Jr.	PreMed	*Long Island, N. Y.*
Trayser, Elizabeth Matilda	LS	*Milwaukee*
Trier, Ardel Emma	LS	*Hurley*
Trier, Joseph Jasper	LS	*Hurley*
Troyano, Elaine Marie	LS	*New York, N. Y.*
Truesdall, Katharine se	AA	*Toledo, Ohio*
Trukenbrod, William Karl	LS	*Monroe*
Trumbull, Katharine Sherwood se	PhysEd	*Evanston, Ill.*
Tubias, David Joshua	GenC	*Madison*
Tufts, Jennie Greta	NorC	*Madison*
Tulane, Roy Axel Gustave	LS	*Williams Bay*
Tullis, Alice Catherine	HygC	*Madison*
Tulloch, William Osborn	LS	*Milwaukee*
Turek, Lillian Carolyn	LS	*Milwaukee*
Turgrimson, Charles Darneck	LS	*Chicago, Ill.*
Turley, John Layne	LS	*Muskogee, Okla.*
Turner, Emma Caroline	LS	*Eagle*
Turner, Francelle Shirley se	LS	*Madison*
Turner, Spencer William	LS	*Tomah*
Turner, Theodore Baker	LS	*Corning, Iowa*
Twenhofel, Helen Vivian	LS	*Madison*
Tyvand, Carletta Margaret	GrN	*Madison*
Uek, Alois William	LS	*Manitowoc*
Unger, Frank John se	AA	*Cudahy*
Utter, Gertrude Edna	LS	*Nashotah*
Vail, Paul Mitchell	LS	*Benton*
Valentine, Robert	LS	*Centerville, Iowa*
Van Adestine, John Clifford	LS	*Wausau*
Van Deelen, Henry	PreMed	*Waupun*
Van Deraa, Beryl Kathryn	LS	*Antigo*
Van Deraa, Patricia M.	LS	*Antigo*
Vanderhoef, Ray William	LS	*Rio*
Van Doren, Arleen Flora	LS	*Antigo*
Van Doren, Dean Kimball	GenC	*Birnamwood*
Van Edig, Frances Marie	LS	*Middleton*
Van Meter, Mary Ward	LS	*New Richmond*
Van Natta, William Heegaard	LS	*Chicago, Ill.*
Van Nuys, Mary Alice	LS	*Newcastle, Ind.*
Varney, Irene Ellora	LS	*Greenwood*
Vaughan, Luverne Charles	LS	*Antigo*
Verduin, James	GenC	*Milwaukee*
Veselsky, Jerry Victor	LS	*Berwyn, Ill.*
Vickery, Gavena Caroline	LS	*Fort Atkinson*
Vietmeyer, Evelyn Bertha se	AA	*Milwaukee*
Vilas, Fred Lavonne	LS	*Pierre, S. Dak.*
Villwock, Byron John	LS	*Wauwatosa*
Vincent, Alice Mary	LS	*Cuba City*
Viner, Eleanore M.	GenC	*Omaha, Nebr.*
Vinger, Chester Burnell	GenC	*Argyle*
Vint, Arthur Harold	LS	*Union Grove*
Vivian, Hazel Marie	LS	*Mineral Point*

Vogt, Edward Fred	GenC	*Milwaukee*
Vogts, Harry Frederick	ChC	*Madison*
Voreck, Frederic Rudolph	LS	*Beaver Dam*
Vorlop, Caryl Ernestine	LS	*Madison*
Wagener, Dorothy Dean	LS	*Sturgeon Bay*
Wagner, Frederick Jacob	LS	*Fort Atkinson*
Wagner, Gordon	LS	*Green Bay*
Wagner, Louise Edwards	LS	*Madison*
Waldo, Dorothy Ione	LS	*Kenosha*
Walker, Louise Alden	LS	*Evansville, Ind.*
Walker, Lura Marjorie	M	*Madison*
Walker, Nancy Hazel	LS	*Springfield, Ky.*
Walker, Ruth Frances	LS	*Madison*
Wallace, Merry Maude	LS	*Benton Harbor, Mich.*
Wallenfang, David Francis	LS	*Niagara*
Waller, Beulah La Vina	LS	*Blue River*
Wallo, Ursola Gesene	GenC	*Two Rivers*
Walsdorf, Leo John	LS	*New Holstein*
Walsh, Richard Butler	LS	*Southington, Conn.*
Wang, Yu Kia se	AA	*Shanghai, China*
Warman, John Corbin	PreMed	*Madison*
Wartinbee, Robert Broatch	LS	*LaCrosse*
Waters, William George	LS	*Wisconsin Rapids*
Watson, Alice Bielings	LS	*San Diego, Cal.*
Watson, Catherine Elizabeth	LS	*Hamilton, Ohio*
Watt, Harold Woodruff	LS	*Glen Ridge, N. J.*
Watt, Polly Sue	LS	*Madison*
Weaver, Frank Marion	LS	*Riverside, Ill.*
Weaver, Harry Douglas	LS	*Edgeley, N. Dak.*
Webb, Margaret Louise se	PhysEd	*Chicago, Ill.*
Webb, Mildred Mae	LS	*Madison*
Wedgwood, David	ExpC	*Little Suamico*
Weibel, Adolph Joseph	GenC	*Racine*
Weiler, Catharine Hexter	LS	*Pittsburgh, Pa.*
Weinberg, Eugene	LS	*New York, N. Y.*
Weinberger, Margaret Elizabeth	LS	*Chicago, Ill.*
Weinreb, Fernlee	LS	*Chicago, Ill.*
Wesiman, Sam	LS	*Racine*
Weiss, Arnold Anthony	LS	*Madison*
Weizenhoffer, Edwin L.	PreMed	*Milwaukee*
Welch, Helen Elizabeth	LS	*Madison*
Weller, Ross Russell	PreMed	*Milwaukee*
Wellington, Dorothy	LS	*Ellsworth, Kans.*
Wellstein, Anton William	PreMed	*Knapp*
Welton, David Goe	LS	*Madison*
Wemmert, Leone Marie	LS	*Madison*
Wenham, Mary Elizabeth se	LS	*Willoughby, Ohio*
Wergen, Joseph Peter se	PrysEd	*Madison*
Werner, Richard William	LS	*Milwaukee*
Werner, Samuel	PreMed	*Billings, Mont.*
Werve, Mariana Katherine	LS	*Kenosha*
Weston, Dean Albert	GenC	*Dodgeville*
Wettstein, Ralph Woodruff, Jr.	LS	*Milwaukee*
Weybright, Enid Shirley	LS	*Superior*
Whalen, Carroll James	LS	*Albany*
Wheary, George Henry Jr.	LS	*Racine*
Wheeler, Ruth Bernice	LS	*Plymouth*
Whiffen, John Phillips	ChCC	*Janesville*
White, Frank Jonathan	LS	*Madison*
White, Harold William	GenC	*Glenview, Ill.*
White, James Roberts	GenC	*Oak Park, Ill.*

White, Jane Marie	LS	*Chicago, Ill.*
Whitefield, George Dorsey, Jr.	LS	*Madison*
Whiting, Arthur Henry	LS	*Wausau*
Whiting, Lester Leroy	LS	*Lake Mills*
Widroe, Solomon Mayer	PreMed	*Milwaukee*
Wiest, Genevieve Mae	LS	*Sturgeon Bay*
Wig, Virginia Roebuck	LS	*Milwaukee*
Wilcox, Emery Charles	LS	*Altoona*
Wilcox, Henry Berst	LS	*Saginaw, Mich.*
Wilcox, William Knowlton	LS	*E. Cleveland, Ohio*
Wile, Carolyn Frances	LS	*Louisville, Ky.*
Wilken, Lester Rudolph	LS	*Spokane, Wash.*
Wilkins, Dorothy Margaret se	AA	*Lake Forest, Ill.*
Williams, John Melvin	LS	*Madison*
Williams, Jean Warren se	AAAdSp	*Madison*
Williams, Margaret Emma	LS	*Cambria*
Williams, Margaret Mae	LS	*Barneveld*
Williams, Mary Alice	LS	*Madison*
Williamson, Myra Elizabeth	GrN	*Woodman*
Willis, Ralph Edward	PreMed	*Fond du Lac*
Willison, Margaret Pruitt	LS	*Madison*
Wills, Constance French	LS	*Elmhurst, L. I., N. Y.*
Willson, Allan Theodore	LS	*Farmington, N. H.*
Willson, Milo Erving se	PhysEd	*Iron Mountain, Mich.*
Wilson, Chester Walter	LS	*Milwaukee*
Wilson, Gail	LS	*Hammond, Ind.*
Wilson, Laird	LS	*Oak Park, Ill.*
Wilson, Richard Charles	LS	*Madison*
Wilson, Robert Edwards	PreMed	*Chicago, Ill.*
Winckler, Henry S.	LS	*Madison*
Wines, Harold Glen	LS	*Beloit*
Winter, Herbert Albert	LS	*Antigo*
Winter, Ruth Marjorie	LS	*Chicago, Ill.*
Wisnewski, Edwin C.	LS	*Milwaukee*
Withers, Doris Lenore	LS	*Nekoosa*
Witmer, Jane Paul	LS	*Chicago, Ill.*
Witte, Herbert Carl se	PhysEd	*Watertown*
Woelffer, Jerome Webster	LS	*Marshall*
Wolf, Margarete Caroline	LS	*West Allis*
Wolf, Martha Cecelia	M	*Milwaukee*
Wong, Victor Joseph	LS	*Blanchardville*
Wood, Douglas Hodges	PreMed	*Madison*
Wood, Harry Emsley, Jr.	LS	*Indianapolis, Ind.*
Wood, Theodore Wheelock	PreMed	*Albany, N. Y.*
Woodard, Betty Bell	CH	*Tiffany*
Woodard, Dan Hastings	LS	*Allen Grove*
Worthington, Helen Elizabeth	LS	*Aurora, Ill.*
Wray, Clara Grace	LS	*Glencoe, Ill.*
Wright, Frances Caldwell	LS	*Oak Park, Ill.*
Wright, Robert Dean	PreMed	*Green Bay*
Wyant, Edith Guinevere	M	*Denton, Mont.*
Yabroff, Isaac A.	LS	*Sun Prairie*
Young, Eleanor Harriet	LS	*Chicago, Ill.*
Young, Robert Morton	LS	*Chicago, Ill.*
Young, William Agge	ExpC	*Minot, N. Dak.*
Younker, Richard Paul	ExpC	*Winnetka, Ill.*
Zabel, John Winfred	LS	*Milwaukee*
Zenoff, Morris	LS	*Chippewa Falls*
Zibell, Phyllis Ethel	LS	*Waterloo*
Zimdars, Earl Lawrence	ChC	*Kenosha*

Zimmer, Jeanette Ruth se	AA	*Wausau*
Zinn, Louise Adelaide se	PhysEd	*Milwaukee*
Zobel, Alice Lucille	HygC	*Wauwatosa*
Zuehlke, Clarence G.	ExpC	*Mayville*

FRESHMEN

Abraham, Herbert Leo	LS	*Milwaukee*
Abrams, Ruth Lee	LS	*Green Bay*
Actor, William	LS	*Barron*
Adair, Robert Goulard	LS	*Xenia, Ohio*
Adams, Blair Stone	PreMed	*Omaha, Nebr.*
Adams, William Phipps	ExpC	*Odebolt, Ia.*
Addison, Wilbert John	LS	*Madison*
Alberth, Charles Julius se	PhysEd	*Walworth*
Albertson, Erma	LS	*Blanchardville*
Albrecht, Helen May	LS	*Waunakee*
Albright, Katharine Agnes	LS	*Madison*
Allen, Dorothy	LS	*Kenilworth, Ill.*
Allen, Leslie Ray	PreMed	*Argyle*
Allen, Melvin Sylvester	LS	*Two Rivers*
Allen, Virginia	LS	*Boscobel*
Almberg, Violet Marie	LS	*Chicago, Ill.*
Almert, Jane Louise	LS	*New York, N. Y.*
Alperowitz, Dorothy	LS	*Woodridge, N. Y.*
Alschuler, Samuel	LS	*Aurora, Ill.*
Alshuler, Charles Samuel	LS	*Chicago, Ill.*
Altenberg, Helen Ione	GrN	*Mauston*
Alton, Cathryne Wayne	LS	*Linden*
Alton, Harold	LS	*Linden*
Ames, June Ella	M	*Oregon*
Amundson, William Robert	LS	*Stoughton*
Andersen, Katherine Louise	LS	*Madison*
Andersen, Ruth Marion	LS	*Neenah*
Anderson, Alden LeRoy	LS	*Minneapolis, Minn.*
Anderson, Arthur Daniel	ExpC	*Brookline, Mass.*
Anderson, George Bernard	LS	*Kindred, N. Dak.*
Anderson, Harriett Anne	LS	*Chicago, Ill.*
Anderson, Harry George	LS	*Madison*
Anderson, Philip Romayne	LS	*Brodhead*
Anderson, Wallace Lars	LS	*Park Ridge, Ill.*
Anderson, William John	LS	*Chicago, Ill.*
Andrew, Florence Glenne	LS	*Chicago, Ill.*
Anglin, Olive Frances	LS	*Steubenville, Ohio*
Anker, Desmond Louis William	CH	*London, England*
Anklam, Romana Minnie	HygC	*Weyauwega*
Anthony, Harry George	PreMed	*Madison*
Anthony, Mary Elizabeth	LS	*Chicago, Ill.*
Arbury, Helen Josephine	LS	*Detroit, Mich.*
Archer, Russell Willard	PreMed	*Madison*
Archie, Vivian Elizabeth	HygC	*Waterloo*
Arnold, Crystabel Grace	LS	*Beatrice, Nebr.*
Athay, Alice Adele	LS	*Newark, N. J.*
Atkinson, Catherine Martha	LS	*Madison*
Augustine, Edward Charles	ChC	*Sturgeon Bay*
Auw, Herbert Frederick	LS	*Chicago, Ill.*
Averill, Emma Brownell	LS	*Fond du Lac*
Ayers, Charlotte	LS	*Chicago, Ill.*
Babcock, Donald Orsen	LS	*Sparta*
Back, Gerald Harry	PreMed	*Milwaukee*

Bachini, Aldo	LS	*Chicago, Ill.*
Bachmann, Evelyn Elizabeth se	PhysEd	*Chicago, Ill.*
Backus, Kathleen Loretta	LS	*Lancaster*
Backus, Marjorie Anne se	AA	*Madison*
Bailey, Helen Mary	ChC	*Chicago, Ill.*
Bailey, Lois Virginia se	PhysEd	*Clayton, Mo.*
Baker, Barnard Benjamin	LS	*Milwaukee*
Baker, Dorothy Elizabeth	LS	*LaCrosse*
Baker, Lynn Erland	LS	*Ashtabula, Ohio*
Bakke, Carl Torger	PreMed	*Highland Park, Ill.*
Ballinger, William S.	LS	*Des Moines, Iowa*
Banach, Louis Paul	LS	*Mosinee*
Bannen, Claire Agnes	LS	*Milwaukee*
Bardes, Juliana	LS	*Milwaukee*
Baresh, Roy Ludwig	PreMed	*Milwaukee*
Barett, Vernie William	LS	*Pontiac, Ill.*
Barker, Bernice Grace	GrN	*Shiocton*
Barkhouse, Nancy Lois	LS	*St. Louis, Mo.*
Barnwell, Mary Minor	LS	*Madison*
Barr, George	ChC	*Superior*
Barrett, Berwyn Mitchell	LS	*Beloit*
Barrett, Virginia Anne	GenC	*Chicago, Ill.*
Barsness, Wendall Ruby se	AA	*Madison*
Barsotti, Ercole John	LS	*Calumet, Mich.*
Barstow, Adeline Margaret	LS	*Menominee, Mich.*
Bartlett, Harriett Hart	LS	*Drummond*
Bartlett, Jane Ann	LS	*Madison*
Bartsch, Gerald William	PreMed	*Madison*
Bascom, William Russell	ChC	*Madison*
Bates, Carleton Ellis	LS	*South Milwaukee*
Bay, Clyde Edward	ChC	*Kaukauna*
Bean, Marion	LS	*Madison*
Beatty, Katheryne Rebecca	LS	*Birmingham, Ala.*
Bechtolt, Lettie Irene	LS	*Reedsburg*
Beck, Florence Elizabeth	LS	*Mauston*
Beck, William Henry	PreMed	*Chicago, Ill.*
Becker, Wilma Virginia	LS	*Manitowoc*
Beckmann, Regina Vivian	LS	*Middleton*
Bedley, Lillian E. se	PhysEdAdSp	*Meridean*
Beebe, Clarence Otis	PreMed	*Bayfield*
Behm, Paul Bernard	ExpC	*Cedarburg*
Behrman, Muriel Elizabeth	LS	*New York, N. Y.*
Belfer, Sam	PreMed	*Milwaukee*
Belson, Sylvia se	PhysEd	*New York, N. Y.*
Benda, Bertha Monica	LS	*Prairie du Chien*
Benda, Mary Gertrude	LS	*Prairie du Chien*
Bendinger, Homer James	ExpC	*Milwaukee*
Benesch, Gertrude Sally	LS	*Milwaukee*
Benjamin, Stanley Weiss	LS	*Chicago, Ill.*
Benkert, Arthur Churchill	LS	*Monroe*
Bennett, Philip Russell	LS	*Rockford, Ill.*
Bensman, Louis Lawrence	PreMed	*Milwaukee*
Benson, Emery Burnett	LS	*Iola*
Benson, Frank Porter	LS	*Spooner*
Benson, Russell Phillip	LS	*Elderon*
Beran, Silverdean Marie	LS	*Madison*
Berenson, Betty Beulah se	LS	*Milwaukee*
Berg, Mary Elizabeth	LS	*Onalaska*
Berg, Mary Katherine	LS	*Lake Mills*
Berk, Ruth S.	LS	*New Rochelle, N. Y.*
Berkness, Edith Grace	LS	*Oconomowoc*

Bersch, Delmar William	LS	*Sheboygan*
Best, Richad Halstead	LS	*Arlington Heights, Ill.*
Betten, Zelda	LS	*Green Bay*
Beyreis, Esther Helen	LS	*Dorchester*
Biba, Mildred Helen se	AA	*Muscoda*
Bickel, John William	LS	*Sheboygan*
Bickel, Laura Carnell se	PhysEd	*Oshkosh*
Biehn, Lawrence Henry	LS	*Wauwatosa*
Bierbach, Blossom Beatrice	LS	*Wickliffe, Ohio*
Bierbrauer, Floyd George	LS	*Wausau*
Biggin, Thomas Metcalfe	LS	*Cassville*
Bill, Robert	GenC	*Madison*
Billington, Florence Lorayne	GrN	*Spring Green*
Billups, Louis Dennis	LS	*Richland Center*
Binder, Adolph Frederick, Jr.	LS	*Evanston, Ill.*
Bied, Herbert Roderick se	PhysEd	*Ridgeway*
Bird, Robert J.	LS	*Rockford, Ill.*
Bishop, Karl Whitcomb	LS	*Bloomington*
Bissell, Charlotte Hubbard se	PhysEd	*Toledo, Ohio*
Bittner, Hilda	LS	*Canton, Ohio*
Black, Lucy Elizabeth	LS	*Beloit*
Black, Muriel Valentine	LS	*Milwaukee*
Black, Virginia Catherine	LS	*Racine*
Blair, Grace Amelia	LS	*Redgranite*
Blanchar, Carroll Henry	LS	*Madison*
Blankenheim, Anne Dula	LS	*Madison*
Blatt, Jerome I.	LS	*Pittsburgh, Pa.*
Blatz, Gustave Grover, Jr.	GenC	*Milwaukee*
Blau, Robert Owen	LS	*Madison*
Blau, William George se	PhysEd	*Madison*
Blewett, Charles DeReamer	GenC	*Fond du Lac*
Blitstein, Emma R.	LS	*Racine*
Blomquist, Paul Alfred se	AA	*Chicago, Ill.*
Bloom, Harry	LS	*Madison*
Blott, Camille Marion	LS	*Mukwonago*
Blum, Harold John	PhIII	*Monticello*
Blumenfeld, George	PreMed	*Waterbury, Conn.*
Blumenstock, Lucille Rose-bud	LS	*Winnetka, Ill.*
Boakes, William Raymond se	PhysEd	*Dalton, Mass.*
Boardman, Frances	ChC	*Ladysmith*
Bohlman, Vilas Arthur	PhIII	*Birnamwood*
Bohnson, Lorin Ferdinand	LS	*Clinton, Iowa*
Bokstein, Harry	LS	*Troy, N. Y.*
Bolender, Frederick J.	LS	*Monroe*
Bollenbach, Norbert Carl	LS	*Middleton*
Bond, Varley Sherman	ChC	*Madison*
Borden, Helen Lucy se	AA	*Milwaukee*
Bordner, Jean	LS	*Madison*
Bordner, Stanta Lung	LS	*Madison*
Bornstein, Sylvia Sarah	LS	*Gloversville, N. Y.*
Botsford, Samuel	ExpC	*Penn Yan, N. Y.*
Boulton, Margaret Mary	LS	*Brooklyn, N. Y.*
Boyd, Paul D.	PreMed	*Madison*
Bradford, George Noble	PreMed	*Chicago, Ill.*
Bradley, Encil Morton	LS	*Madison*
Bradley, Jesse Duncan	GenC	*Duluth, Minn.*
Bradley, William Besteder	ChC	*Oak Park, Ill.*
Brady, Frances Elizabeth	LS	*Madison*
Brady, Richard H.	LS	*Eau Claire*
Brandt, Marion	LS	*Watertown*
Brandt, Robert Reardon	LS	*Milwaukee*

Branstad, Arthur Henry	LS	*Eau Claire*
Brattlie, Bernhardt Marcus	LS	*Stoughton*
Bratton, Charles Benly	LS	*Eureka, Kans.*
Braun, Frederic William	LS	*Sheboygan*
Bremmer, Geraldine Jean	PhysEd	*Chicago, Ill.*
Brennan, Margaret	LS	*Ruthven, Iowa*
Brenner, Aaron	ExpC	*Memphis, Tenn.*
Bricker, James Garfield	LS	*Shaker Heights, Ohio*
Brickman, Henry Gustaf	LS	*Worcester, Mass.*
Briggs, Florence Jeanette	ChC	*Madison*
Briggs, William Harland se	PhysEd	*Madison*
Brightman, Mary Eleanor se	PhysEd	*Chicago, Ill.*
Britton, Paul Keneth	LS	*Nekoosa*
Brockhaus, Karl William	LS	*Janesville*
Broeker, Eleanor Magdalene	LS	*Wausau*
Bronner, Julie	LS	*Chicago, Ill.*
Brookman, Lillian Muriel se	AA	*New York, N. Y.*
Brooks, Mary Esther se	PhysEd	*Noblesville, Ind.*
Brown, Betty	LS	*Tulsa, Okla.*
Brown, David Samuel	ChCC	*La Grange, Ill.*
Brown, Elmire Isabelle	LS	*Des Plaines, Ill.*
Brown, Kenneth Dawson	LS	*Kenosha*
Brown, Marion Mollie	LS	*New York, N. Y.*
Brue, Dorothy Lydia	LS	*De Forest*
Bryan, Evelyn Virginia	LS	*Portage*
Bryant, Norwood Taylor se	AA	*Madison*
Bucci, Frank Boniface se	PhysEd	*Waukesha*
Buchbinder, Naomi	LS	*Milwaukee*
Buck, Phyllis Margaret	LS	*Genoa, Ill.*
Bugge, Richard Anthony	LS	*Milwaukee*
Burchette, Harold Ernest	GenC	*Madison*
Burchette, Herbert Earl	GenC	*Madison*
Burdick, Irwin Henry	LS	*Milwaukee*
Burgess, Paul Lathrop	ChC	*Bristol*
Burgess, Wilfrid Creech	LS	*Park Ridge, Ill.*
Burke, Gerald Emanuel	PhIII	*Casco*
Burkett, Martha Ann	LS	*Fort Wayne, Ind.*
Burmaster, Sidney James	LS	*Fond du Lac*
Burnham, Robert Grant	PhIV	*Richland Center*
Burton, Frank Webster	CH	*Milwaukee*
Bush, Wilna Gertrude	LS	*Janesville*
Bussey, Violette Mae	PreMed	*Edgerton*
Butler, Doris Della	LS	*Milwaukee*
Butler, Lucille Madeline	LS	*Madison*
Byers, John Gratton	LS	*Chicago, Ill.*
Byford, Doris May	GenC	*Blue Island, Ill.*
Caldow, Dorothy Grace se	AA	*Janesville*
Callaghan, Marie Aileen	LS	*Burlingatme, Cal.*
Callahan, Theodore Francis	LS	*Iron River*
Callaway, Thomas Russell	LS	*Chicago, Ill.*
Callaway, William Terry	GenC	*Chicago, Ill.*
Callos, George John	LS	*Milwaukee*
Calvy, George Lloyd	PreMed	*Fond du Lac*
Cameron, Donald Trumbull	GenC	*Chicago, Ill.*
Campbell, Arthur Francis	LS	*Delavan*
Cape, Marion Elizabeth se	AA	*Racine*
Capron, Banfield	ChCC	*Milwaukee*
Card, Marion Mildred	M	*Sparta*
Carlson, Ernest Wilfred	ChC	*Boyceville*
Carlson, Gunnar William	LS	*Elgin, Ill.*
Carlson, Janet Henrietta se	AA	*Milwaukee*

Carlton, Abigail Priscilla	M	*De Forest*
Carncross, Violette Elma	LS	*Lodi*
Carow, Wilmer Stewart se	PhysEd	*Ladysmith*
Carr, Charles W.	LS	*West Chicago, Ill.*
Carroll, Richard Francis	LS	*Racine*
Carson, William Kayser	LS	*Evanston, Ill.*
Carver, Charles Albert	LS	*Oshkosh*
Case Gladys Lee	LS	*Ashland*
Case, James MacAlpine se	PhysEd	*Ashland*
Casperson, Violet Muriel	LS	*Frederic*
Castator, Alice Elizabeth se	PhysEd	*Pittsburgh, Pa.*
Caswell, Donald Jesse	LS	*Madison*
Catlin, Melville Lionel	LS	*St. Louis, Mo.*
Caulk, Roswell Jean	GenC	*Sioux City, Iowa*
Cavanagh, Frances Elizabeth	LS	*Madison*
Cavanaugh, Thomas Lawrence	LS	*Blanchardville*
Cawley, Mary Elizabeth	CH	*Madison*
Chamberlain, Marjorie Estelle se	AA	*Beaver Dam*
Champion, Martha Louise	CH	*Los Angeles, Cal.*
Chandler, Lee Hammond	LS	*Stone Lake*
Chandler, Margaret Glenn se	PhysEd	*Meridian, Miss.*
Chapman, Elinor Hull	ChC	*Chicago, Ill.*
Chapman, Marshall Fuller	LS	*Madison*
Chase, Theodore Willis	LS	*Sun Prairie*
Chechik, Rose	LS	*Madison*
Chenoweth, Lorene se	PhysEd	*Fowler, Ind.*
Chessen, James	PreMed	*Superior*
Cheydleur, Eleanor Payne	PreMed	*Madison*
Chickering, Dorothea Curtis	LS	*Madison*
Chosa, Edward Charles	LS	*Oconto*
Choyke, Ernestine Rosa	LS	*Waukegan, Ill.*
Christ, Lowell Bernard	LS	*Green Bay*
Christensen, Inez Christine se	PhysEd	*Madison*
Christensen, Lewis Francis	GenC	*Colby*
Christenson, Alfred R.	LS	*Stoughton*
Christenson, Anola Myrtle	LS	*Hartford*
Christenson, Rachel Anna	GrN	*Racine*
Christian, John Bert	LS	*Delavan*
Chudacoff, Isador Merrill	LS	*Peshtigo*
Church, Elizabeth Isabel	LS	*Madison*
Clark, Henry Kendall	LS	*La Grange, Ill.*
Clark, Mary Frances	LS	*Beloit*
Clarke, Kenneth S.	LS	*Beaver Dam*
Clarke, Mary Bunita	LS	*Fort Atkinson*
Clausen, Harry Irish	ChCC	*Clear Lake, Iowa*
Claypoole, Virginia Gertrude	LS	*Lima, Ohio*
Cocking, Myron Albert se	AA	*Milwaukee*
Coen, Ruth Elizabeth	LS	*Lakewood, Ohio*
Cohen, Eugene	LS	*Chicago, Ill.*
Cohen, Jacob	LS	*Weyauwega*
Cohen, Lena L.	LS	*Fond du Lac*
Cohen, Maurice	GenC	*Chicago, Ill.*
Cohen, Rosabelle Vivian	LS	*Milwaukee*
Cohn, Carl Louis	LS	*Fond du Lac*
Colburn, John Everett	PreMed	*Winona, Minn.*
Cole, Edward Goodenow	LS	*Madison*
Cole, Joyce Mildred	LS	*Green Bay*
Coley, Harold Downey	LS	*Raleigh, N. C.*
Collen, Harriet Kathryn	Gen	*Toledo, Ohio*
Collins, Charles Herbert	PreMed	*Kenosha*
Collins, Dorothy Clare	LS	*Madison*

Collins, Frank Edward	LS	*Edgar*
Colloton, John Thomas	LS	*Wauwatosa*
Comer, William Donald	GenC	*Naperville, Ill.*
Conklin, Mary Theresa	LS	*Prescott*
Conlin, Charles Allebrand	PreMed	*Duquesne, Pa.*
Conohan, Mervyn Joseph	LS	*Madison*
Conrad, Charles Hopkins	LS	*La Porte, Ind.*
Conrad, Virginia Collins	LS	*Medford*
Consigny, John Porter	LS	*Oconomowoc*
Consolazio, Joseph	PreMed	*Mount Vernon, N. Y.*
Cook, Florence Charlotte	LS	*Oshkosh*
Cool, Elizabeth Dunton	LS	*Madison*
Cool, Robert Newton	ExpC	*Madison*
Cooley, Harold Bradford	LS	*Wheaton, Ill.*
Coon, Gordon Melvin	ChC	*Appleton*
Cooper, Carl Richard	GenC	*Madison*
Corcoran, Merle Victor	LS	*Ettrick*
Cornsweet, Bertha	LS	*Cleveland, Ohio*
Coster, Russell LeRoy	LS	*Madison*
Costigan, James Louis	PreMed	*Madison*
Counter, George Frederick	LS	*Chicago, Ill.*
Cowan, James, Jr.	LS	*Kenosha*
Cox, Gertrude May	LS	*Arena*
Cox, Robert Lawrence se	PhysEd	*Madison*
Crabtree, Mack Harold	LS	*Walworth*
Craig, Elizabeth	LS	*Milwaukee*
Craig, Irene Valentine	LS	*Waupaca*
Cramer, Frederic L.	LS	*Milwaukee*
Crandall, Ethel Agnes	LS	*Edgerton*
Creutz, James Howard	LS	*Janesville*
Cripps, Aileen Mary	LS	*Madison*
Croft, James Jamieson	LS	*LaGrange, Ill.*
Croft, Robert Hilton	LS	*LaGrange, Ill.*
Crothers, Robert Loomis	LS	*Madison*
Crummey, James Herbert se	PhysEd	*Iron Mountain, Mich.*
Crump, Margaret Clara	GrN	*Waukesha*
Crump, Willie Sue	LS	*Washington, D. C.*
Cuisinier, Arthur Clement	GenC	*Chicago, Ill.*
Cummings, Eleanor Beatrice	GrN	*Montello*
Currier, Frank Wilson	LS	*Stoughton*
Czapiewski, Harry John	LS	*Milwaukee*
Dahl, Helen Irene	LS	*Chicago, Ill.*
Daly, Patrick Joseph	LS	*Reedsburg*
Dampman, Jennie Ethel	PreMed	*Frackville, Pa.*
Dana, Richard Harry	LS	*Kewanee, Ill.*
Daniel, Julia Norfleet	CH	*New York, N. Y.*
Daniels, Cecelia Lucille se	PhysEd	*Madison*
Danning, Thomas Ralph, Jr.	ChCC	*Wauwatosa*
Danzis, Helen Mura	PreMed	*New York, N. Y.*
Darling, John Gregory	LS	*Milwaukee*
Darrow, Earl Eugene	GenC	*Superior*
Daskam, Jean	LS	*Antigo*
Daus, Jean Ethel	LS	*Cleveland, Ohio*
Davey, Elizabeth Ann	LS	*Mansfield, Ohio*
Davies, David Pryce	LS	*Racine*
Davies, Helen Esther	LS	*Madison*
Davies, Rahel Virginia	LS	*Washington, D. C.*
Davis, John Walter	LS	*Madison*
Davis, Robert Charles	GenC	*Sioux Falls, S. Dak.*
Davis, Ruth Estelle	LS	*Oak Park, Ill.*
Davlin, William Robert	**LS**	***Berlin***

Day, Gerald Wesley	GenC	*Ladysmith*
Deach, Russell Palmer	LS	*Milwaukee*
Demerse, Kermit Andrew	GenC	*Tony*
Demorest, Florence Barbara	LS	*Chicago, Ill.*
Denzin, Gladys Myrtle	LS	*Detroit, Mich.*
Derby, Genevieve Mareita	LS	*Marinette*
Derby, Virginia May	LS	*Detroit, Mich.*
De Soto, Clinton B.	LS	*Withee*
De Vries, Mildred E.	LS	*Lake Geneva*
Dexter, Virginia Elinor	LS	*Madison*
Dhein, Ellen Meta	LS	*Chilton*
Dickinson, Densmore	LS	*Beaver Dam*
Dieman, Eleanor Josephine	GrN	*Fond du Lac*
Dierker, Roland Fredrick	LS	*Watertown*
Dietrich, Ardath Fern	LS	*Memphis, Tenn.*
Dietrich, Thomas Mueller	ExpC	*Appleton*
Diggins, Darrell Franklin	GenC	*Harvard, Ill.*
Dillon, Nellie Cicelia	GenC	*Chicago, Ill.*
Dillon, Richard Joseph I.	LS	*Milwaukee*
Dimond, Jeannette Marie	LS	*Mliwaukee*
Dingee, John Franklin	GenC	*Madison*
Dingee, William Wilstead	ChCC	*Kilbourn*
Distenfeld, Max Aaron	PreMed	*Milwaukee*
Dix, Christopher Robert	PreMed	*Green Bay*
Dizon, Mildred Harriet se	AA	*Madison*
Dmitrieff, Alexander	PreMed	*New York, N. Y.*
Dmitrieff, Anatole	ExpC	*New York, N. Y.*
Dobbins, Robert Ward	LS	*Kenosha*
Dockery, Robert James	LS	*South Milwaukee*
Doepke, Flora Emily	HygC	*Merrill*
Donahue, Arthur Robert	ExpC	*Pekin, Ill.*
Donkersgold, Harold Albert	PreMed	*Baldwin*
Donkle, Oliver Henderson	LS	*Madison*
Donlin, Helen Marie	LS	*Madison*
Donner, Frank Joris	ExpC	*Newark, N. J.*
Donovan, Louise Mary	LS	*Sturgeon Bay*
Doolittle, Helen Elizabeth	LS	*Lancaster*
D'Orazio, Guy Goliords	ExpC	*Lohrville*
Dornfeld, Harold Otto	GenC	*Watertown*
Dorrans, Wiliam Johnston	GenC	*Madison*
Dosse, Frank Ferdinand	LS	*Chicago, Ill.*
Doudna, Calvin Thomas	PreMed	*Gillingham*
Douglass, Marion A.	LS	*Madison*
Douglass, Robert James	LS	*Grand Rapids, Mich.*
Doyle, Phil Arthur	LS	*Bayfield*
Draper, Josephine Mary	LS	*North Freedom*
Dresang, Lowrance Joe se	PhysEd	*Appleton*
Dresser, Alice Genevieve	LS	*Madison*
Dresser, Harold Eugene	GenC	*Madison*
Driessen, James Alfred	LS	*Marion*
Droster, Harley William	GenC	*Madison*
Drought, Neal Edward	ExpC	*Milwaukee*
Drummond, Alan McCulloch	ExpC	*River Forest, Ill.*
Duane, Edward Malbone	PreMed	*Brookline, Mass.*
Duffield, Arnold Austin	GenC	*Rochester, N. Y.*
Dulak, Roy Edward	GenC	*Milwaukee*
Dunbar, James Harrison	LS	*Chicago, Ill.*
Dupee, Sarah	LS	*Freeport, Ill.*
Durand, Olive Gertrude	GrN	*Gillett*
Dvorak, Louise Mary	LS	*Berwyn, Ill.*
Dyckhoff, Helen Mary	LS	*Fond du Lac*

Eayrs, Isabel Coggeshall	LS	*Cleveland Heights, Ohio*
Echols, Helen Margaret se	AA	*Milwaukee*
Ecker, Edith Jean	LS	*Chicago, Ill.*
Edgerton, Orville Henry	GenC	*Beaver Dam*
Edlebeck, George Joseph se	PhysEd	*Goodman*
Edmondson, George Raymer	PreMed	*Madison*
Edwards, Clarence Bidwell	LS	*Lancaster*
Edwards, Joseph Rees, Jr.	LS	*Madison*
Eggers, Charles Warren	ExpC	*Whiting, Ind.*
Eggers, Virgil Frank	ExpC	*Whiting, Ind.*
Eggler, Marilla Josephine se	PhysEd	*Dundee, Ill.*
Eichhorst, Robert Henry	LS	*Milwaukee*
Eickelberg, May Elizabeth	LS	*Recseville*
Eimon, Benjamin Clifford, Jr.	GenC	*Superior*
Eisenbart, Edwin John se	PhysEd	*Burlington*
Eisenberg, Selma Mildred	LS	*Chicago, Ill.*
Eisert, Marguerite Louise	LS	*Chicago, Ill.*
Eising, D. George	GenC	*Waukesha*
Eiter, Catherine Claire	LS	*Madison*
Elkin, Evelyn Zelma	LS	*New York, N. Y.*
Elliker, Paul Ruben	GenC	*Waukon, Ia.*
Elliott, George Charles	LS	*Madison*
Ellsworth, Diana Marguerite	LS	*Tavera*
Ellsworth, Marjorie Weston	CH	*Beloit*
Emory, Ruth Elizabeth se	AA	*Madison*
Endries, Marguerite Mae	LS	*Manitowoc*
Englebeck, Virginia Catherine	M	*Port Clinton, Ohio*
Enos, Mabel Geraldine	LS	*Racine*
Epstein, David	LS	*New York, N. Y.*
Erbe, Bernard James	PreMed	*Madison*
Erdmann, Christopher	LS	*Milwaukee*
Erickson, Bertha Ann	LS	*Beaver Dam*
Erickson, Robert William	LS	*Madison*
Ericson, Dorothy Louise se	PhysEd	*Wauwatosa*
Erlands, Jeanne Marie	LS	*Racine*
Erlanger, Herman	LS	*St. Louis, Mo.*
Erwin, Margaret Alice	LS	*Fort Wayne, Ind.*
Estreen, Abraham Rueben	LS	*Oconto*
Evert, Harriet Esther	LS	*Pewaukee*
Ewing, James Halsted	PreMed	*New York, N. Y.*
Ewing, Ruth Catherine	LS	*Montevideo, Uruguay*
Eysenbach, Philip Wendell se	AA	*Milwaukee*
Fagen, Melvin	LS	*Chicago, Ill.*
Farmer, Edith Godfrey	LS	*Madison*
Farnham, Merle Glenn	ChCC	*Waterford*
Farrell, Kathleen Marie	PhIII	*Madison*
Farries, Marion Wallace se	AA	*Asbury Park, N. J.*
Fauth, Louise May se	LS	*Aurora, Ill.*
Fay, Urban Tyndall	LS	*Jefferson*
Feferman, David	ExpC	*South Bend, Ind.*
Fehlberg, Ruth Marie	GrN	*Racine*
Feinberg, Barton	GenC	*Brooklyn, N. Y.*
Feld, Selmer Melvin	PreMed	*Milwaukee*
Femrite, James Charles	LS	*Madison*
Femrite, Vivian Eleanore	LS	*Madison*
Ferguson, William Richard	PreMed	*Lake Geneva*
Ferris, Henry Eugene	GenC	*Fontana*
Fey, Thomas John	LS	*Ableman*
Fielder, Joseph John	LS	*Mineral Point*
Fifrick, Lloyd Loren	PreMed	*Marinette*
Fineberg, Milton Josh	LS	*Trenton, N. J.*

Finn, Minnie Rae	LS	*Rochester, N. Y.*
Finsky, Leo Harold	LS	*Lake Geneva*
Fischer, Paul Gerhard	LS	*Watertown*
Fishman, Solomon	ExpC	*New York, N. Y.*
Fitzgerald, William Wyman	GenC	*Milwaukee*
Flanagan, Carroll Edward	M	*Pickett*
Flanagan, Margaret Mary	LS	*Lannon*
Fleischmann, Marjorie Estelle	GenC	*Baltimore, Md.*
Fleming, Robert Henry	LS	*Madison*
Flesham, Selma Frances	LS	*Hubbard Woods, Ill*
Flynn, Janice Evelyn	M	*Chicago, Ill.*
Flynn, Margaret Anne	LS	*Madison*
Fogg, Norman	GenC	*Janesville*
Foley, Daisy Marguerite	M	*Madison*
Foley, Katherine M.	LS	*Dorchester*
Fonda, Le Grand Benedict	ChC	*Troy, N. Y.*
Foote, Glen Lockwood	LS	*Madison*
Fosdal, Arne	GenC	*Edgerton*
Fosshage, Ralph Field	LS	*Mount Horeb*
Foster, Katherine Patricia	LS	*Ruth, Nev.*
Fouts, Martin Franklin se	PhysEd	*Madison*
Fox, Adelaine	LS	*Chicago, Ill.*
Fox, Katharine Ilsley	LS	*Madison*
Frank, Spencer	GenC	*Madison*
Franke, Herbert Julius	LS	*Kenosha*
Franke, Mervin Dale	ChC	*Aurora, Ill.*
Frankfurth, Helene Elizabeth	LS	*Milwaukee*
Frase, Robert William	ExpC	*Chicago, Ill.*
Freck, Wilbur Francis	LS	*Fall River*
Frederick, William Charles	LS	*Chicago, Ill.*
Freed, Bessie	LS	*Tulsa, Okla.*
Freeman, Lois Rosamond	M	*Madison*
Frey, Phyllis Louise	M	*Hartford*
Friar, Kimon Dimitros	ExpC	*Forest Park, Ill.*
Friede, Adolf Edward	LS	*Reedsburg*
Friedlander, Rose	PreMed	*New York, N Y.*
Frisbie, Robert Dean	GenC	*Madison*
Frisvold, Carl Clifford	GenC	*Eau Claire*
Fritz, Julianna Catherine	GrN	*Madison*
Fromer, Milton	LS	*New York, N. Y.*
Fromme, Robert Wilbur	LS	*Cincinnati, Ohio*
Freesher, Fred Francis, Jr.	GenC	*Madison*
Frusher, Mary Brigitta	LS	*Madison*
Fryer, Dorothy Harriet	LS	*Milwaukee*
Fryzell, Burton Lyman	LS	*Moline, Ill*
de la Fuente, Hector	PreMed	*Coahuila, Mex.*
Fuller, Curtis Gross	LS	*Necedah*
Fuller, Dorothy Adeline	LS	*Riverside, Ill.*
Fuller, Evelyn Alma	LS	*Friendship*
Fusch, Theda Alice	LS	*Madison*
Gabert, Laurence William	PreMed	*Egg Harbor*
Gaenslen, George Julius	LS	*Milwaukee*
Gage, Alice Virginia	LS	*La Grange, Ill.*
Gage, Bidwell Keyes	LS	*Green Bay*
Gage, Donald John	GenC	*Endeavor*
Gahagan, Ivan Owen	GenC	*Madison*
Gallagher, John Francis	LS	*Madison*
Gallun, Raymond Zinke	LS	*Beaver Dam*
Ganshert, Pauline Mary	LS	*Madison*
Ganzer, Richard Ralph	LS	*Oshkosh*
Garber, Alex	LS	*Chicago, Ill.*

Garber, Milton Bradley	LS	*Enid, Okla.*
Garens, Carl George	PreMed	*Milwaukee*
Garfield, Phillip Henry	ExpC	*Milwaukee*
Garlock, Mildred Ruth	LS	*West Salem*
Garman, Phillips Lewis	ExpC	*Tokyo, Japan*
Garrison, William Lloyd	LS	*Baraboo*
Garrity, Thomas Charles	LS	*Beloit*
Garry, Kenneth John	LS	*Oak Park, Ill.*
Garvin, Thelma Mabel	ChC	*Janesville*
Gary, Joseph John	GenC	*Madison*
Gaudern, Gertrude Elinor	LS	*Port Clinton, Ohio*
Gault, William Campbell	LS	*Wauwatosa*
Geffert, Clarence John	GenC	*Madison*
Gehman, Clayton	ExpC	*Doylestown, Pa.*
Geimer, Hubert Flammang	M	*Manitowoc*
Gentry, Paul Benjamin	GenC	*Chicago, Ill.*
Geraldson, Raymond Irving	LS	*Racine*
Gerber, James Rudolph	ExpC	*Wilmette, Ill.*
Gerhardt, Paul Robert	ChCC	*Neenah*
Gerlach, Frederick Carl	LS	*Milwaukee*
Gessert, Norman John	PhIII	*Edgerton*
Getchell, Dorothy Mae	LS	*Waterloo, Iowa*
Gettleman, Kenneth Walter	GenC	*Wauwatosa*
Getz, Lois Lavonne	LS	*Madison*
Giancola, Louise Marie	LS	*Hurley*
Gibbons, Eugene Joseph	PreMed	*Antigo*
Giddings, Willis Frederick	LS	*Chicago, Ill.*
Giffin, Manuel	LS	*Rochester, Minn.*
Gilbert, Helen Leona	HygC	*Beloit*
Gilboy, Harley B.	LS	*Fond du Lac*
Gill, John Robert	ChC	*New Lisbon*
Giller, Maxine	LS	*Omaha, Nebr.*
Gillespie, Ridley Seward	LS	*Madison*
Gillette, Cherye Lyn se	AA	*Muscoda*
Gillette, Kenneth George	LS	*Evanston, Ill.*
Gillette, Robert Wesley	LS	*LaCrosse*
Gillette, Roger Henry	ChC	*Concord, N. H.*
Gilman, William Louis	PreMedAdSp	*Elm Grove*
Gilroy, Elizabeth Jean	LS	*Hollywood, Cal.*
Ginsberg, Mildred Charlotte	LS	*Cleveland, Ohio*
Ginsburg, Sam Ben	LS	*Milwaukee*
Glander, Henry John	LS	*Manitowoc*
Glasier, John Strong	LS	*Madison*
Glassner, Betty Helen	LS	*Milwaukee*
Gleichman, Phyllis Elaine	LS	*Cleveland, Ohio*
Glendon, Martin Francis	LS	*Dalton, Mass.*
Glennie, Edith Mansergh	LSAdSp	*Mindoro*
Glezen, Hollis Dann	PreMed	*Richford, N. Y.*
Glick, Nathan	PhIII	*Chicago, Ill.*
Glover, Wilbur George, Jr.	LS	*Wilmette, Ill.*
Gloyd, Mary Louise se	LS	*Fond du Lac*
Gnagi, Peter Marsh	PreMed	*Monroe*
Gnewikow, Eudora Ida	LS	*Norwalk*
Godfrey, Jane Winifred	LS	*Duluth, Minn.*
Godnick, Elliott Lewis	ExpC	*Brooklyn, N Y.*
Gokey, Elizabeth Mary	LS	*Janesville*
Goldberg, Gerald	LS	*Pittsburgh, Pa.*
Goldberg, Ida Eunice	LS	*Ashland*
Goldberg, Jane Hadley	LS	*Canton, Ohio*
Goldberg, Stanley Dane	GenC	*La Porte, Ind.*
Goldberger, Beatrice White	LS	*Milwaukee*

Golden, Harriette Mariam	LS	*Ravinia, Ill.*
Goldenberg, Charles Robert	LS	*Milwaukee*
Goldschmidt, Stanley Joseph	LS	*Madison*
Goldsmith, Mary Jane	LS	*Chicago, Ill.*
Goldstein, Harold Herbert	LS	*Lancaster*
Goldstone, Pearlanna	LS	*Rhinelander*
Goldwater, James Lyon	ExpC	*New York, N. Y.*
Gollin, Sol	PreMed	*Milwaukee*
Gollmar, Genevieve Corinne	LS	*Baraboo*
Gomber, Alice Elida	GrN	*Goodman*
Gomber, Mack Clayton	LS	*Goodman*
Goodell, Robert	ExpC	*Loda, Ill.*
Goodhue, Carolyn Patricia	LS	*Winnetka, Ill.*
Goodman, Joseph	LS	*Milwaukee*
Goodrich, Rolland Christopher	LS	*Richland Center*
Gordon, James Deane	LS	*Fond du Lac*
Gordon, Seth Edwin, Jr.	LS	*Evanston, Ill.*
Gormley, Helen se	PhysEd	*Delavan*
Gorsegner, Clarence Everett	LS	*Stanley*
Gorton, LeRoy Aaron	LS	*Ann Arbor, Mich.*
Gorychka, Adolph Leo se	PhysEd	*Manitowoc*
Gotstein, Phillip Francis	LS	*Madison*
Gould, Elizabeth Gladys	LS	*Paris, France*
Gould, Elizabeth Jean	LS	*Madison*
Grabbert, Gilsey Ray	GenC	*Madison*
Graff, Helen Louise	LS	*Middletown, Ohio*
Gralewski, Rudolph Malcom	GenC	*Hurley*
Gratz, Jennie Dorothy	LS	*Chicago, Ill.*
Greathouse, Margaret	LS	*Paris, Ill*
Grebel, Paul Grant	LS	*Randolph*
Greeley, David McLean	LS	*Madison*
Greenabaum, Betty	LS	*Chicago, Ill.*
Greene, Harmon Kayton	ChC	*Chicago, Ill.*
Greening, Norman Charles	LS	*Kenosha*
Gregory, Homer Theodore	LS	*Berlin, N. H.*
Grelick, May Mathilda	CH	*New York, N. Y.*
Grether, Margaret Helen	LS	*Sauk City*
Grether, Richard Burrell	LS	*Racine*
Greve, John Louis	LS	*Milwaukee*
Greverus, Jane	LS	*Atlanta, Ga.*
Griep, Rita Pauline	LS	*North Freedom*
Griffith, Mary Virginia	LS	*Tomahawk*
Grinde, Genevieve Katryn	LS	*Waunakee*
Grossenbach, Robert Arthur	LS	*Milwaukee*
Grossenbacher, Karl Albert	GenC	*Plymouth Fla.*
Grossman, Nathan	ExpC	*Brooklyn, N. Y.*
Grotsky, Julius	LS	*Kenosha*
Grant, Edith Marion	LS	*Lake Geneva*
*Gruber, Hilbert Edmund	LS	*Medford*
Gruenberger, Alice Gabriela	LS	*Milwaukee*
Gruner, Richard Edward	LS	*Portage*
Guell, Leslie Longley	PreMed	*Fond du Lac*
Guldhaugh, Alice I.	LS	*Blanchardville*
Gunderson, Evan L	LS	*Green Bay*
Guse, Alma Pauline	CH	*Burlington*
Guy, Curtis Foster	GenC	*Milwaukee*
Haase, Faith Louise	CH	*Beloit*
Haaya, Donald Emil se	AA	*Owen*
Hagedorn, Rhea Verle	GrN	*Marshfield*

* Died March 25, 1930

Hagmann, Henry Charles, Jr.	PreMed	*Kenosha*
Hahn, Claire Elizabeth	LS	*Racine*
Hahn, Henry Cedric	LS	*Cedar Rapids, Iowa*
Hahn, Madge Elizabeth	GrN	*Sauk City*
Hall, Edna Lanora	HygC	*Elton*
Hall, G. Latham	GenC	*Wauwatosa*
Hall, Margaret Mabel	LS	*Kenmore, N. Y.*
Hallisey, Jerome John	LS	*Beloit*
Halperin, Abra Jewel	LS	*Chicago, Ill.*
Halse, Owen Charles	ExpC	*New York, N. Y.*
Halverson, Chester Orrin	LS	*Manitowoc*
Haman, Kenneth Louis	ChC	*Monroe*
Hamelin, Martin Russell	LS	*Madison*
Hamilton, Llewellyn Floyd	LS	*Chicago, Ill.*
Hammersmith, Jane Marguerite	LS	*Sycamore, Ill.*
Hammes, Thelma Gladys	M	*Prairie du Chien*
Hammill, Earl Walter	LS	*Phillips*
Hammond, Mary Venetta	LS	*Waupun*
Hand, John Budd	LS	*Racine*
Handel, Arno Charles	PreMed	*Madison*
Hanks, Lucien Stanley	ExpC	*Madison*
Hansell, Nils Birger	ExpC	*New York, N. Y.*
Hansen, Albert Edward	LS	*Mendota*
Hansen, Freeman Guy	LS	*Madison*
Hansen, Martin Robert	PreMed	*Richland Center*
Hansen, Viola Marie se	AA	*Madison*
Hanson, Eddie Alexander se	PhysEd	*Eleva*
Hanson, Malcolm Loyd	LS	*Bloomer*
Hantover, Evelyn	LS	*Chicago, Ill.*
Harbridge, Josephine Dickinson	LS	*Racine*
Harbridge, Malcolm Dickinson	LS	*Racine*
Harley, William Gardner	LS	*Madison*
Harloff, Virginia Mae se	AA	*Madison*
Harmony, Nahoma Isabelle	GrN	*Park Falls*
Harrington, Maxine Elizabeth	LS	*Madison*
Harris, Audrey Janet	LS	*Cuba City*
Harris, Herbert Trezona	LS	*Dodgeville*
Harris, Howard	ExpC	*New York, N. Y.*
Harris, Josephine	LS	*Madison*
Harrison, George Charter	LS	*Madison*
Hart, Elizabeth Jane	LS	*Madison*
Hart, Margaret Elizabeth	LS	*Racine*
Harvey, Frank Elliott	GenC	*Milwaukee*
Harvey, John Sterling	PreMed	*Oconto*
Hastings, William Minson	LS	*Kenosha*
Haugen, Lawrence Oliver	LS	*Manitowoc*
Haugen, Morris Owen	PhIV	*Madison*
Haugland, Clifford	GenC	*Minneapolis, Minn.*
Hauser, Rudolph Alonzo	LS	*LaCrosse*
Hawkins, Natalie Paulina	ChC	*Concord, N. H.*
Heber, Leonard Charles	LS	*Fond du Lac*
Hebl, Frances Lois	GrN	*Marshall*
Heend, Lucile	M	*LaCrosse*
Heeran, Lillian Marie	LS	*Mount Horeb*
Heffernan, Francis Joseph	LS	*Manitowoc*
Heider, Louise Vilinda	LS	*Woodstock, Ill.*
Heilprin, Harry H.	LS	*Madison*
Heim, Herman Robert	LS	*Madison*
Heimerl, Richard Otto	LS	*Madison*
Hein, Marie Gertrude	LS	*Tigerton*
Heinefling, Ruth L.	LS	*Brooklyn, N. Y.*

Heise, Doris Louise se	AA	*Madison*
Held, Hester Henrietta	LS	*Green Bay*
Helfman, Samuel Arnold	LS	*New York, N. Y.*
Helfrick, Phyllis Lucille se	AA	*Elkart, Ind.*
Helgesen, Francis X	GenC	*Madison*
Hellikson, Maxine Beatrice	PhIII	*Mabel, Minn.*
Helmer, Arlyle Meta	GrN	*Plymouth*
Hemberger, Edna Juanita	LS	*Sauk City*
Hendrickson, William Olaus	PreMed	*Black River Falls*
Henken, Gilbert Elmer	PreMed	*Racine*
Henley, Thomas John	GenC	*Oak Park, Ill.*
Hennig, Harold Julius	LS	*Madison*
Henry, Dorothy Elvira	M	*Brodhead*
Herber, Arnold Charles se	PhysEd	*Green Bay*
Herbert, Ralph Frederick	LSAdSp	*Beloit*
Herl, Margaret Elizabeth se	PhysEd	*Port Clinton, Ohio*
Herlache, Lawrence Frank se	PhysEd	*Sturgeon Bay*
Herman Laurie	LS	*Brooklyn, N. Y.*
Hermann, Dorothy Genevieve	LS	*Beloit*
Herrick, Mary Elizabeth	LS	*Red Wing, Minn.*
Herrmann, Fred Edwin	LS	*Chicago, Ill.*
Herschel, Robert James	LS	*Peoria, Ill.*
Hertel, Robert Edwards	LS	*Winnetka, Ill.*
Hertz, Jules Owen	ChCC	*Cleveland, Ohio*
Hess, Eugene William	PreMed	*Adell*
Hess, Eunice Elodia	LS	*Adell*
Hewitt, Maxine Eleanor	GrN	*Durand*
Heyer, Arthur Justice	LS	*Oak Park, Ill.*
Hibberd, Eleanor Ida	LS	*Eau Claire*
Hibert, Anna Louise se	PhysEd	*Oakmont, Pa.*
Hickethier, Ruth Kathryn	LS	*Portage*
Hidde, Frederick George	PreMed	*Sheboygan*
Higby, Robert M.	GenC	*Ripon*
Hildebrand, George Bernard	PreMed	*Huntington, Ind.*
Hilgers, John Martin	LS	*Middleton*
Hill, Walker Hawes	ExpC	*Richmond, Va.*
Hillemeyer, Dorothea Jeanette	LS	*Chicago, Ill.*
Hinkel, Delta Thea se	PhysEd	*Madison*
Hirsch, Frederic Geake se	AA	*Wauwatosa*
Hitchcock, Chester Horner	LS	*Milwaukee*
Hobbs, Paul Gordon	LS	*Oregon*
Hockett, Helen Bonita	LS	*Fort Wayne, Ind.*
Hodgson, Alice Caroline	LS	*Madison*
Hoebel, Louis Frederic	LS	*Madison*
Hoffmann, John Edwin	GenC	*Toledo, Ohio*
Hoffmann, Martha Catherine se	PhysEd	*Madison*
Hogan, Jack Russell	LS	*Chicago, Ill.*
Holesovsky, Nathanael Neal	LS	*Milwaukee*
Holland, Vivian Beth	LS	*Auburndale*
Hollingsworth, James Elgin	LS	*Wausau*
Holm, Paul James se	PhysEd	*South Milwaukee*
Holmes, Stella Whitson	LS	*Madison*
Holmquist, Stanley Reuben	LS	*Marinette*
Holterman, Natalie D.	LS	*Green Bay*
Homberger, Robert Omar	LS	*Janesville*
Hommel, Robert Harroun	LS	*Madison*
Hood, Helen Mabel	LS	*Chicago, Ill.*
Hook, George Orrin	LS	*Milwaukee*
Hoopes, Sara Louise se	PhysEd	*Marysville, Ohio*
Hootkin, Ben	M	*Sheboygan*
Hoover, Kenneth Harold	LS	*Janesville*

Horn, Nathan se	PhysEd	*Chicago, Ill.*
Horneman, Earle William	LS	*Milwaukee*
Horton, Frank Shirley	LS	*Janesville*
Hosking, Muriel Frances	GrN	*Ironwood, Mich.*
Hottmann, Kenneth	LS	*Spring Green*
Hougstad, Dagne Eleanor	LS	*Oconomowoc*
Householder, Helen Maude	LS	*Madison*
Hove, Adeline Louise	LS	*Stoughton*
Hovey, Fred Burling	LS	*River Forest, Ill.*
Howell, John Jessup	ExpC	*Salisbury, Conn.*
Howell, Oliger William	LS	*Milwaukee*
Howland, George Harold	LS	*Madison*
Hoxie, John Paul	ChC	*Madison*
Hoyt, Frank August	LS	*Walworth*
Huebner, Edward Charles	ChC	*Portage*
Huegel, Janet Elizabeth	LS	*Madison*
Hughes, Dudley Greer se	AA	*Madison*
Huguelet, James Frances	LS	*Chicago, Ill.*
Hungerford, Herbert Garfield se	PhysEd	*Evansville*
Hunt, Florence Marie	M	*Madison*
Huntington, Ruth Menerva	LS	*Delavan*
Hunzicker, Vernon Jacob	LS	*Madison*
Husted, Edwin Roy	LS	*Waukesha*
Husting, Isabelle Katherine	LS	*Fond du Lac*
Hutchins, Traver Burton	LS	*Fond du Lac*
Hutchinson, Eugene Dixon se	AA	*LaCrosse*
Hutchinson, H. Potter	LS	*Weyauwega*
Hutchison, Harry G.	LS	*Mineral Point*
Hutchison, Robert Louis	LS	*Mineral Point*
Hyde, Warren Clifford	ExpC	*Minneapolis, Minn.*
Ihrke, Violette L.	M	*Milwaukee*
Imbrie, Mary	LS	*Newburgh, N. Y.*
Inge, Marion se	PhysEd	*Mobile, Ala.*
Ingstrup, Thomas George	LS	*River Forest, Ill.*
Inman, Chester Allen	LS	*Oak Park, Ill.*
Intravaia, Vito Ignatius	M	*Madison*
Irwin, Colene Louise	LS	*La Grange, Ill.*
Israel, Hyman	LS	*Waukesha*
Isselmann, George Lenz	LS	*Manitowoc*
Iushewitz, Morris	LSAdSp	*Milwaukee*
Jackson, Anne Waldo	LS	*Chicago, Ill.*
Jackson, Charles Homer	PhIII	*Oconomowoc*
Jackson, James Allen	PhIII	*Maysville, Ky.*
Jackson, Miriam Grannis	LS	*Madison*
Jackson, Russell, Jr.	PreMed	*Milwaukee*
Jackson, Wendell Andrews	LS	*South Wayne*
Jacobs, Betty	LS	*Brookline, Mass.*
Jacobs, Charles Sheehan	LS	*Portage*
Jacobs, Elizabeth Rae	LS	*Mount Vernon, N. Y.*
Jacobsen, Helga Mildred	PreMed	*Racine*
Jacobson, Harold Edward	LS	*Madison*
Jacobson, Russell Charles	GenC	*Chicago, Ill.*
Jacobson, Ruth	LS	*New York, N. Y*
Jaeger, Karle L. se	AA	*Freeport, Ill.*
Jahr, Charles Anton	LS	*Elkhorn*
James, Lucile Emilie	CH	*Louisville, Ky.*
James, Mary Margaret	LS	*Chicago, Ill.*
Jelsma, Meredith Hayes	LS	*Des Moines, Iowa*
Jenkins, Barbara Burrill se	AA	*Madison*
Jennings, Duncan Tallmage	LS	*Wilmette, Ill*
Jensen, Jerome Peter	LS	*Sheboygan*

Jensen, Richard Anthony	PreMed	*Menasha*
Jessell, Todd Charles	PreMed	*Madison*
John, Walter Henry	LS	*Milwaukee*
Johns, Robert David	LS	*LaCrosse*
Johnson, Arlette Idola	LS	*De Forest*
Johnson, Camille Aslaug	GenC	*Stoughton*
Johnson, Doris Emile	LS	*Chicago, Ill.*
Johnson, Frank Ozzie se	AA	*Madison*
Johnson, Howard Richard	LS	*Racine*
Johnson, Howard William	LS	*Rockford, Ill.*
Johnson, Kimball Freistad	ChC	*Evanston, Ill.*
Johnson, Martha Sophia	GrN	*Stoughton*
Johnson, Paul Magner	LS	*LaCrosse*
Johnson, Paul Robert	LS	*Kenosha*
Johnson, Stanley Charles	LS	*Chicago, Ill.*
Johnson, William M.	LS	*Amarillo, Tex.*
Jones, Eleanor Christine Lloyd	LS	*Madison*
Jones, Elizabeth Anne	LS	*Chicago, Ill*
Jones, Frederick Lewis	PreMed	*Fairmount, Ind.*
Jones, Gladys	LS	*Riley*
Jones, Grace Loretta	LS	*Mauston*
Jones, Jenkin Lloyd	ExpC	*Tulsa, Okla.*
Jordan, Dean Fulton	PhIII	*Plymouth*
Jordan, Ruth	GenC	*Barneveld*
Joselyn, Marion Edwin	LS	*Fort Dodge, Iowa*
Joseph, Grace M.	LS	*Denver, Colo.*
Joyce, William Watkins	LS	*Chicago, Ill.*
Julien, Frederick Harold	LS	*Milwaukee*
Jung, Stanley Victor	LS	*Burlington*
Junginger, Adolph	GenC	*Poynette*
Justeson, Henry Neil	LS	*Chicago, Ill.*
Justiliano, Vito Lawrence	LS	*Madison*
Kabat, Gregory Standley	GenC	*Milwaukee*
Kade, Richard Winter	PreMed	*Sheboygan*
Kahn, Eleanor Nora se	AA	*Brooklyn, N. Y.*
Kahn, Rose Cyril	LS	*Milwaukee*
Kaiser, Miriam Anita se	AA	*Milwaukee*
Kaminsky, Eddie E.	LS	*Milwaukee*
Kamm, Elizabeth Merton	LS	*Madison*
Kanchuk, Louis Elliott	Pre Med	*Kansas City, Mo.*
Kane, Frederick Edward	LS	*Milwaukee*
Kanes, Hyman George	LS	*Chicago, Ill.*
Kanter, Arbella Theresa	LS	*Green Bay*
Kapelski, James Chester se	PhysEd	*Westville, Ind.*
Kapitanoff, Emanuel H.	LS	*Beloit*
Karasik, Fred Louis	ExpC	*Chicago, Ill.*
Karberg, George Walter	ChC	*Port Edwards*
Karberg, Paul Frederick	LS	*Madison*
Kasdin, Marrian A.	LS	*Madison*
Katz, Charles Joseph	PreMed	*Milwaukee*
Katz, Esther Harriet	LS	*Milwaukee*
Keefe, Rose-Ellen Baumle	PreMed	*Madison*
Keenan, Frances Eileen	HygC	*Bridgeport, Nebr.*
Keenan, James Thomas	LS	*Beloit*
Keene, Noel Constant	PreMed	*Oconto*
Keilson, Agatha Stella	LS	*Brooklyn, N. Y.*
Keith, Herbert Russell	LS	*Racine*
Kelhofer, Anne Lydia se	PhysEd	*Madison*
Keller, Edwin Wolfgang	LS	*Rockford, Ill.*
Kellogg, Dorothy Agnes	LS	*Wisconsin Rapids*
Kellogg, Gretchen Elizabeth	LS	*Wisconsin Rapids*

Kelly, George Thomas se	PhysEd	*Madison*
Kelly, Norman Patrick	LS	*Waupun*
Kelly, Paul Robert	LS	*Clinton, Iowa*
Kelsey, Walter Mather	GenC	*Delavan*
Kelso, Dorothy se	PhysEd	*Madison*
Kennedy, Lorene Mary	LS	*Janesville*
Kernes, James	PreMed	*Tulsa, Okla.*
Kessler, Maxine Annabelle	M	*Waterloo, Iowa*
Kestin, Helen Gertrude	M	*Chicago, Ill.*
Ketchum, Myrtle Nash se	AA	*Madison*
Kiefer, Dorothy Emma Louise	LS	*Chicago, Ill.*
Kierzkowski, Theodore Edmond	PreMed	*Cudahy*
Killam, Janette Baker	LS	*Milwaukee*
Kimball, Robert George	GenC	*Janesville*
Kindschi, Gerald Carl	LS	*Madison*
King, Jack	GenC	*Edgerton*
Kinsley, Edwin James	LS	*Elgin, Ill.*
Kinzelberg, Charlotte	LS	*Chicago, Ill.*
Kipnis, Daniel David	LS	*Chicago, Ill.*
Kirschbaum, Ruth Louise	LS	*Leonia, N. J.*
Kjelson, Evangeline Marie	GrN	*Sheboygan*
Klaber, Alfred Wolff	LS	*Montclair, N. J.*
Klapel, Grace Emma se	LS	*Haugen*
Klausmeyer, David Orth se	AA	*Cincinnati, Ohio*
Kleene, Robert Henry	LS	*Evanston, Ill.*
Klein, Gertrude	LS	*New Orleans, La.*
Kleinheinz, Raymond Bruno	PhIII	*Madison*
Klemme, Willard Anton	GenC	*Kenosha*
Klettka, Wilma Helen	GenC	*Markesan*
Kleve, Marie Johanna	LS	*Madison*
Kline, Benjamin Ellis	LS	*Sturtevant*
Kline, Richard Joseph	ExpC	*Clayton, Mo.*
Kling, Florence Marie	LS	*Chicago, Ill.*
Klockow, Willard Edward	PreMed	*Madison*
Kloppmann, Walter Herman	LS	*Crivitz*
Knauer, Roy Edmund	LS	*Kenilworth, Ill.*
Knauf, Virginia Elizabeth	LS	*Chilton*
Knight, Hazel B.	LS	*Nashota*
Knoble, Ruth Mildred	ChC	*Kalispell, Mont.*
Knudson, William	LS	*Madison*
Knuteson, Ramon Edward	LS	*Madison*
Koenig, William Herman	PreMed	*Milwaukee*
Kofel, James Don	ChC	*Hartford*
Kohn, Barbara Louise	LS	*Cincinnati, Ohio*
Kohn, Edward John	PreMed	*Watertown*
Kolstedt, John William	GenC	*Chicago, Ill.*
Komaiko, Charles James	LS	*Chicago, Ill.*
Komar, Frank Joseph	PreMed	*West Allis*
Komora, Michael Richard se	PhysEd	*New Kensington, Pa.*
Konrad, Walter Grey	LS	*Madison*
Kopan, Loryn E.	LS	*Twin Bluffs*
*Koplic, Henry	ExpC	*New York, N. Y.*
Kraeger, Robert Edward	ExpC	*Pekin, Ill.*
Kraft, Raymond, Jr.	LS	*Madison*
Kraftmeyer, Clifford Theodore	GenC	*Betterdorf, Iowa*
Krall, Ellis Henry	ExpC	*Cleveland, Ohio*
Kranzusch, Marie Florence	GrN	*Appleton*
Kraseman, Gerald Page	LS	*Wauwatosa*
Kreutzmann, Edd Wernick	PreMed	*Hillsboro*

*Died February 10, 1930

Kreutzman, Jack Ed	GenC	*Madison*
Krol, Margaret Mary	LS	*Chicago, Ill.*
Krom, Harold	PhIII	*Withee*
Kroncke, Adeline Henrietta	LS	*De Forest*
Krueger, Arthur Henry	LS	*Reedsburg*
Kubista, Roy Earl	ChCC	*Madison*
Kuderer, John Henry	CH	*Wilton*
Kuehlthaw, Raymond Walter	LS	*West Bend*
Kuenster, Rachel Louise	LS	*Glen Haven*
Kuhn, Caroline Loeb	LS	*Mount Vernon, N. Y.*
Kuhn, Marion Clarice	LS	*Mishawaka, Ind.*
Kundert, Lois Irene se	AA	*Madison*
Kundrat, Joseph Stevenson	LS	*Chicago, Ill.*
Kunitz, Robert Oscar	LS	*Appleton*
Kuplic, Leslie James	LS	*Manitowoc*
Kuse, Gordon Joseph	LS	*Medford*
Lafleur, Edwin Alfred	LS	*Milwaukee*
LaFrance, Leona Joan	LS	*Troy, N. Y.*
Laine, Vaino Emil	LS	*Withee*
Lamb, Arthur Lucius	PreMed	*Monroe*
Lambert, Marvin Bernard	LS	*Kohler*
Landau, Homer Reed	LS	*Highland Park, Ill.*
Landau, Jane	LS	*Chicago, Ill.*
Landor, George Brownell	GenC	*Palmyra*
Lange, Robert Echlin	LS	*Janesville*
Langrill, Florence Ann	LS	*Manitowoc*
Lant, Walter Clifford	LS	*Wenona, Ill.*
Larson, Ben Paul	LS	*Fort Dodge, Iowa*
Larson, Carl Nels, Jr.	PhIII	*Madison*
Larson, Robert Miles	LS	*Madison*
Lauer, James Henry	LS	*Cincinnati, Ohio*
Lausche, Luverne Frederick	GenC	*Madison*
Lavold, Maynard Rolland	LS	*LaCrosse*
Law, Abram Charles	LS	*Shullsburg*
Lawrence, Elizabeth Lamar	LS	*Winnetka, Ill.*
Lawrence, John William	LS	*Chicago, Ill.*
Lawrence, Ruth Lenore	LS	*Sturgeon Bay*
Lazar, Albert Aaron	LS	*Pittsburgh, Pa.*
Leader, Lillian	LS	*New York, N. Y.*
Leasum, Herman Jay	GenC	*Sturgeon Bay*
Lebensohn, Asher Nook	PreMed	*Kenosha*
LeBoy, Theodore	PreMed	*Oak Park, Ill.*
Lee, Adaline	LS	*Chippewa Falls*
Lee, John Henry, Jr.	LS	*Oak Park, Ill.*
Lee, John Patrick	PreMed	*DePere*
Lee, Julia Henrietta	GrN	*Mineral Point*
Lee, Marion Catherine	LS	*Plymouth*
Lee, Rhode Alice	PhysEd	*Carbondale, Pa.*
Lee, Robert John	ChCC	*Madison*
Lees, Alfrieda se	PhysEd	*Cleveland Heights, Ohio*
Lefebvre, Bernard George	LS	*Green Bay*
Leffler, Maxine Lillian	LS	*Jamaica, N. Y.*
Lehman, Alfred Otto	LS	*Horicon*
Lehman, Louis	LS	*Brooklyn, N. Y.*
Lehr, Rena Estelle	LS	*Detroit, Mich.*
Leibenson, David Harry	LS	*Oshkosh*
Lemke, Victor Jacob	LS	*Watertown*
Lennox, Calvin Wesley	LS	*Lebanon, Ind.*
Leonard, Alice Marie	LS	*Chicago, Ill.*
Leopold, Helen Sophie	LS	*Louisville, Ky.*
Lerner, Sylvia	LS	*Milwaukee*

Lerza, Fred Joseph	PreMed	*Hurley*
Lester, Jane	LS	*Madison*
Levenstein, David	LS	*LaCrosse*
Levin, Marian	LS	*Lawrence, L. I., N. Y.*
Levin, Myron Jame	PreMed	*Chicago, Ill.*
Lewin, Mary Elizabeth	LS	*Cincinnati, Ohio*
Lewis, Grant Nieman	LS	*Milwaukee*
Lewis, Julius Joseph	LS	*Memphis, Tenn.*
Lewis, Mary Evelyn se	PhysEd	*Madison*
Lewis, Rose	LS	*Madison*
Licking, Ralph Arnold	ChC	*Madison*
Liker, Gertrude Catherine	LS	*Milwaukee*
Lillesand, John Walter	LS	*Madison*
Lillesand, Leroy Joel	PreMed	*Madison*
Lillibridge, Harry Jerome	GenC	*Delavan*
Lillie, Emily Ann	LS	*Chicago, Ill.*
Linden, Beatrice Marie	LS	*Racine*
Linder, Charlotte	LS	*Brooklyn, N. Y.*
Lindholm, Dorothy Dell	LS	*Madison*
Lindner, Emil Oswald	LS	*Brooklyn, N. Y.*
Lindner, Robert I.	LS	*Port Edwards*
Linfor, Joe Paul	GenC	*Des Moines, Ia.*
Link, Lucian Andrew	LS	*Madison*
Lion, Albert, Jr.	ExpC	*Baltimore, Md.*
Lipman, Evelyn June se	AA	*Antigo*
Litow, Jerome James	LS	*Milwaukee*
Litt, Herbert Clarence	PreMed	*Mount Vernon, N. Y.*
Little, John Johnson	LS	*Madison*
Livingston, Kathleen Anne	LS	*Janesville*
Livingston, William Mendel	LS	*St. Louis, Mo.*
Loftus, Deane Boughton	LS	*Wilmot*
Logan, Margaret Lucile	LS	*Madison*
Logan, Raymond Pierce	LS	*Milwaukee*
Lohman, Winifred	LS	*Two Rivers*
Long, Miriam	LS	*Brooklyn, N. Y.*
Longhorn, Leland	LS	*New Diggings*
Look, Celeste Koss	LS	*Madison*
Loomis, Helen Elizabeth se	AA	*Kilbourn*
Loomis, Wilma Gladys	LS	*De Forest*
Loose, Maxwell Joseph	LS	*Erie, Pa.*
Lord, Louise Irene	GenC	*Adams*
Lorenz, Elizabeth Emaline	GenC	*Milwaukee*
Lorio, Dorothy Louise	LS	*Milwaukee*
Lostein, Louis Hyman	ExpC	*Stamford, Conn.*
Loughborough, Dwight Logan	LS	*Madison*
Lound, Esther Marie	LS	*Tomahawk*
Lovell, Barney Kenneth	LS	*Pardeeville*
Lovskin, Ralph John se	PhysEd	*Chisholm, Minn.*
Lowe, Clair Eugene	ExpC	*Chaseburg*
Lowe, Gordon Thomas	LS	*Milwaukee*
Lowe, Marion Bernice	LS	*Madison*
Lowrie, Robert Thomas	LS	*Elgin, Ill.*
Lubcke, Charles Chelton	LS	*Middleton*
Lubcke, Orville Fred	PhIV	*Middleton*
Lubenow, Johanna	LS	*Madison*
Lucas, Warren Davis	LS	*Madison*
Ludden, Charles LeRoy	ChCC	*Madison*
Ludden, John Burdette	ChCC	*Madison*
Ludolph, Robert Timothy	LS	*Shawano*
Luebcke, Elmer Richard	LS	*Antigo*
Lueck, William Otto	LS	*Beaver Dam*

Luedke, Frederick August	LS	*Milwaukee*
Lukes, Charles Joseph	LS	*Downers Grove, Ill.*
Lukowicz, Florence Julia	LS	*Antigo*
Lund, Carl Frank	LS	*St. Paul, Minn.*
Lunde, Olav Benjamin se	PhysEd	*Madison*
Lunde, Ruth Marian	LS	*Oak Park, Ill.*
Lundell, Harold George	LS	*Lake Forest, Ill.*
Lurensky, Maurice	PreMed	*Brighton, Mass.*
Luring, Violett Charlotte	M	*Hammond, Ind.*
Luscher, Lorraine Annette	LS	*Carrollville*
Luse, Russell Kossuth	LS	*Madison*
Lutz, Dick Bennett	LS	*Chicago, Ill.*
Lutz, Phyllis V.	LS	*Madison*
Lutze, Margaret Emilie	LS	*Sheboygan*
Lyneis, Genevieve Dorothy	LS	*Fond du Lac*
Lyons, Goodwin Raymond	PreMed	*Madison*
McBain, Carol Genevieve	LS	*Madison*
McCall, Michael Matthew	LS	*Madison*
McCammon, Mary Alice	HygC	*Lake Mills*
McCann, Harry Ambrose	PhIII	*Chicago, Ill.*
McCarthy, Janet Mary	LS	*Antigo*
McCarthy, Marie Catherine se	AA	*Madison*
McClure, Theron Bruce	ExpC	*Western Springs, Ill.*
McConkey, Jean Buell	PreMed	*Canton, Ohio*
McCormick, Ruth Sargent	LS	*Altoona, Pa.*
McCoy, Pauline se	AA	*Wilmette, Ill.*
McCurdy, Albert Wilkinson	PreMed	*Madison*
McDaniel, Max Allen	PhIII	*Madison*
McDonald, William Alex	LS	*Madison*
McDonough, Andrew Charles	LS	*Mantorville, Minn.*
McDowell, Florence Mary se	AA	*Boscobel*
McElphatrick, Violet Luella	LS	*Franklin, Pa.*
McEvilly, Lorraine Frances	LS	*Madison*
McFadden, Phyllis Albert	LS	*Madison*
McFetridge, Jean Budd	LS	*San Diego, Cal.*
McGivern, Charles Bernard	PhIV	*Kenosha*
MacGregor, Robert Scott	LS	*Madison*
McGuinn, James Joseph	LS	*Chicago, Ill.*
McGuire, Elizabeth Normile	LS	*Madison*
McGuire, John Leslie	LS	*Madison*
McGuire, Walter Francis	LS	*Honolulu, Hawaii*
McKechnie, Elizabeth Ellen	LS	*Hillsboro*
McKeever, Gerald Frederick	LS	*Lena*
McKenna, Donald Thomas	GenC	*Madison*
McKenna, Lucille Theresa	LS	*Blanchardville*
McKenna, William Wesley	LS	*Madison*
McKenzie, Malcolm Rasevear	GenC	*Geneseo, Ill.*
MacKenzie, Peter Wilson	LS	*Madison*
MacLean, Gilbert Frank	LS	*Madison*
MacMillan, Katherine Jane	CH	*Detroit, Mich.*
McNeill, William Roscoe	GenC	*Madison*
McNichols, Leo Michael	LS	*New London*
McPherson, Thomas Young	LS	*Lakewood, Ohio*
McRae, Rae Austin	LS	*Quincy, Ill.*
Mabbet, Mary	LS	*Madison*
Mackin, Eileen	LS	*Madison*
Macky, Elmer John	LS	*Granite*
Macpherson, Margaret Anne	LS	*Grand Rapids, Mich.*
Madden, Edgar Francis se	PhysEd	*Sturgeon Bay*
Madding, Gordon Francis	PreMed	*Richland Center*
Magbama, Manuel Ray DeVale Parcon	LS	*Potutan Ilvilo, P. I.*

Main, Harold George se	AA	*Ashland*
Malecke, Ann	M	*Stoughton*
Malecke, Rubye Helen se	AA	*Stoughton*
Malloy, Edward	LS	*Milwaukee*
Manasse, Herbert Herman	LS	*Las Cruces, N. M.*
Mann, David Ira	LS	*Racine*
Mann, Robert William	PreMed	*Milwaukee*
Mansfield, Wilbur Lloyd	PreMed	*Milwaukee*
Manson, Cornelia Everett	LS	*Milwaukee*
Manthe, Elinor Raymond	M	*Madison*
Many, Margaret Bennett	LS	*St. Louis, Mo.*
Marckres, Earle Luther	LS	*Beloit*
Marcus, Herbert Samuel	GenC	*Gary, Ind.*
Marcus, Otto Victor	ExpC	*Muscoda*
Markham, George Francis	LS	*Independence*
Marks, Lillian Frances	LS	*Madison*
Marsden, Sam Gardiner	LS	*Edgerton*
Marten, Frances Leona	LS	*Modena*
Martin, Dora Jeanette	LS	*Richland Center*
Martin, Wendell Ruscal	LS	*Hartland*
Martner, Dorothy Belle se	AA	*Prairie du Chien*
Marvin, Judson Nietert	LS	*Madison*
Marvin, Philip Lee	PreMed	*West Allis*
Maslow, Bertha Goodman	LSAdSp	*Bronx, N. Y.*
Mason, Lawrence	ExpC	*Brookline, Mass.*
Masse, Blair Charles	PreMed	*Chicago, Ill.*
Mathewson, Edith Maud	LS	*Mazomanie*
Mathisen, Beatrice Mae se	PhysEd	*Chicago, Ill.*
Mathison, Alice Lucile	LS	*Lake Geneva*
Matsumoto, Shigeji	GenC	*Calexico, Cal.*
Mauermann, William John	PreMed	*Monroe*
Maxey, Carmen Trowbridge	LS	*Tulsa, Okla.*
Maxwell, John Moreau	LS	*Orangeburg, S. C.*
May, Edward Buchanan	LS	*Omaha, Nebr.*
May, William Jeremiah	LS	*Brooklyn, N. Y.*
Mayer, Edward Allen	LS	*Louisville, Ky.*
Mayers, Albert Nordeman	PreMed	*New Rochelle, N. Y.*
Maytag, Frederick Louis, Jr.	LS	*Newton, Ia.*
Mazanec, Bernard Charles	PhIV	*Bessemer, Mich.*
Meacham, Frances Elinor	LS	*Downing*
Mead, Priscilla Ann	LS	*Philadelphia, Pa.*
Mead, Rose Alden	LS	*Madison*
Mead, Rose Lillian	LS	*Mineral Point*
Meek, Margaret	LS	*Madison*
Meessen, Hubert Joseph	LS	*Eau Claire*
Mefford, Arthur Clarence	LS	*Rockford, Ill.*
Mehl, Arthur Charles	PhIV	*West Allis*
Meier, Gerda Anita	LS	*Milwaukee*
Meier, Stanley Irving	PreMed	*Madison*
Meisel, Max E. Jr.	ExpC	*Cleveland Heights, Ohio*
Meisler, George	ExpC	*Brooklyn, N. Y.*
Melaas, Joan E.	LS	*Beloit*
Mendelson, Wallace	LS	*Des Moines, Iowa*
Meracle, Marie Dorothy	GrN	*Prairie du Chien*
Meracle, Walter Edwin	GenC	*Jefferson*
Mercier, Bernice Lillian	LS	*Fort Wayne, Ind.*
Meriam, Marjorie Florence	LS	*East Cleveland, Ohio*
Merlet, Helen Agnes	ChC	*Beloit*
Mershon, Mary Katherine	LS	*Wauwatosa*
Metcalfe, J. Smith	LS	*West Bend*
Mettel, Adeline Elaine	LS	*Prairie du Sac*

Meyer, Ada Ruth	LS	*Pontiac, Mich.*
Meyer, Elizabeth Marie	LS	*Madison*
Meyer, Grace Esther	LS	*Chicago, Ill.*
Meyer, Louise Norma	LS	*Reedsburg*
Meyer, Margaret Helen	LS	*Manitowoc*
Meyer, Margaret Martha	LS	*Bear Creek*
Michaels, Harold Edward	LS	*Sturgeon Bay*
Mickelson, Milo Norval	LS	*Barneveld*
Mickelson, Tenney Otis	GenC	*Madison*
Middendorf, Amy Louise	LS	*Kenilworth, Ill.*
Midland, Floyd Bernard	PreMed	*Madison*
Mihalyi, Emma Rose	LS	*Coraopolis, Pa.*
Milke, Clara Lucille	LS	*Madison*
Millar, William Llewellyn, Jr.	LS	*Madison*
Miller, Annabel Marilyn	LS	*Milwaukee*
Miller, Estelle Lucile se	PhysEd	*Cleveland Heights, Ohio*
Miller, Fred William	LS	*Madison*
Miller, George Donald	LS	*LaCrosse*
Miller, Harriet Virginia	LS	*Pittsburgh, Pa.*
Miller, Helen Josephine se	AA	*Beloit*
Miller, Herbert Gordon	LS	*Pewaukee*
Miller, Jess Wagner	LS	*Beloit*
Miller, Lewis Henry se	PhysEd	*Madison*
Miller, Marion Beatrice se	AA	*Milwaukee*
Miller, Ruth Mariwell	M	*Highland*
Miller, Samuel Lee	LS	*Maywood, Ill.*
Mills, Thomas Edward	GenC	*Black River Falls*
Minner, Florence Ruth	LS	*Milwaukee*
Mishlove, Sidney	LS	*Milwaukee*
Mistele, Robert John	LS	*Jefferson*
Mitchell, Grace Elizabeth	GenC	*Madison*
Mitchell, Leo George	PreMed	*Mineola, N. Y.*
Mithus, Bernice Esther	LS	*Madison*
Mittelstaedt, Earl Adolph	LS	*Athens*
Moe, Philip Henry	LS	*Black River Falls*
Monson, Cecil Martin	LS	*Gratiot*
Monticello, Elsie Antionette	LSAdSp	*Kenosha*
Moore, John Carter	LS	*Green Bay*
Moran, Horace Huber se	PhysEd	*Lodi*
Morehead, Elmer William	LS	*Mazomanie*
Morgan, Louise Virginia	CH	*Madison*
Morley, Robert Paine	LS	*Nashotah*
Morrill, Earl Walter	LS	*Rhinelander*
Morris, Mary Elizabeth	LS	*New Brighton, Staten Island, N. Y.*
Morris, Robert William	LS	*San Antonio, Tex.*
Morrison, Betty	LS	*Kittanning, Pa.*
Morrissey, Margaret Mary	LS	*Madison*
Morse, Bernice Genevieve	LS	*Madison*
Morse, Dorothy Jane	LS	*Mount Hope*
Morse, Marquis Mitchell	LS	*Racine*
Morse, Mary Elizabeth	M	*Madison*
Mosby, Caroline Willis	LS	*Madison*
Moses, Margaret Louise se	PhysEd	*Lexington, Va.*
Mott, Benjamin Cornell	GenC	*Milwaukee*
Mueller, Bertha Jane	LS	*Indianapolis, Ind.*
Mueller, Edna Marie	LS	*Milwaukee*
Mueller, Gretchen Lora	LS	*Princeton*
Muhs, Irene Lila	LS	*Sheboygan*
Mullen, Lee Earl	PreMed	*Lake Geneva*
Mundt, Harvey Glen	LS	*Fort Atkinson*
Murphy, Arnold Daniel	LS	*Prairie du Sac*

Murphy, Charlotte Louise	LS	*Racine*
Murray, John Edward	GenC	*Fond du Lac*
Murray, Norbert Joseph	LS	*Avoca*
Musselman, Ilo William	GenC	*Warren, Ill.*
Myers, Lucille Trevelyn	LS	*Glen Ellyn, Ill.*
Myers, Raymon Virgil	LS	*Manitowoc*
Myslik, Otto William	LS	*Beloit*
Napper, Charles Henry	PreMed	*Madison*
Nathenson, Ruth Esther	LS	*Madison*
Nathenson, William Allen	LS	*Madison*
Neal, Mary Elizabeth	PreMed	*Mineral Point*
Nechamkin, Jacob Meyer	PreMed	*Sheboygan*
Nee, Paul Vincent	LS	*Richland Center*
Neesam, Beulah Frances	LS	*Delavan*
Neff, Mary Louise	CH	*Madison*
Neitzel, Irma Laura	CH	*Horicon*
Nellen, Irene Ann	LS	*Madison*
Neller, Robert John	GenC	*Appleton*
Nelson, Alberta	LS	*Stoughton*
Nelson, Bruce Jerome	LS	*Eau Claire*
Nelson, Charles William	LS	*St. Louis, Mo.*
Nelson, Elsie Mae se	PhysEd	*Bismark, N. Dak.*
Nelson, Palma Korene	LS	*Brooklyn*
Nemzoff, Herman Warren	LS	*Sheboygan*
Nesemann, Edward Robert	PhIII	*Algoma*
Neustadtl, Edgar Archibald	LS	*Milwaukee*
Newberry, Raymond Eugene	LS	*Kenosha*
Newmeyer, Agnes Stuart	LS	*Washington, D. C.*
Nicgorski, Edward Matthew	PhIII	*Cudahy*
Nichols, Clarence Foard	LS	*Amarillo, Tex.*
Nichols, William Yerbie	LS	*Childress, Tex.*
Nickles, Merle Emelia	LS	*Madison*
Ninmann, Eliza Amilia	LS	*Shawano*
Noble, Dorothy Blanche	LS	*Canton, Ohio*
Noelck, Hallward Ethelmar	ChC	*Hartford*
Noer, Frederick Juul	LS	*Menominee*
Noer, Julia Anderson	M	*Madison*
Nolan, Margarette Mary	LS	*Chicago, Ill.*
Noll, Evelyn Virginia	LS	*Madison*
Nolte, Louis Edward	GenC	*St. Louis, Mo.*
Normington, Richard Victor	LS	*Marshfield*
Norris, John Everett	GenC	*Fort Atkinson*
Norton, Willis Dale	LS	*Darlington*
Notarius, Abraham Albert	PreMed	*Bronx, N. Y.*
November, Harold Bernard	ExpC	*Brooklyn, N. Y.*
Novick, Marvin Maxwell	LS	*Rochester, N. Y.*
Nowak, William Lyle	LS	*La Crosse*
Nowick, Clara Dorothy	LS	*Milwaukee*
Nuernberg, Evelyn Agnes	LS	*Athens*
Nussbaum, Mary Theresa	LS	*Madison*
Nutting, Katherine Parkin	GrN	*Madison*
Oberndorf, Leo Guldman	LS	*Chicago, Ill.*
O'Connor, Elaine Snow	LS	*Marinette*
O'Connor, John Peterson	GenC	*Highland Park, Ill.*
Odell, Howard H.	GenC	*Sioux City, Iowa*
Oestreich, William Jesse	LS	*Janesville*
Oldenburg, Hugh Frederic	LS	*Richland Center*
Olesen, Dorothy Marilyn	LS	*Madison*
Olivanti, Virgil Authur se	PhysEd	*Virginia, Minn.*
Oliver, Olive Laurine	LS	*Chicago, Ill.*
Oliver, William Donald	ExpC	*Dubuque, Iowa*

Olman, Marjorie Dorcas	LS	*Beaver Dam*
Olsen, Harold Ellsworth	LS	*Madison*
Olson, Kenneth Stanley	PhIII	*Oregon, Ill.*
Olstad, Myrtle Adeline	LS	*Coon Valley*
O'Malley, Dorothy Eleanor	LS	*Madison*
O'Malley, Richard Domnick	GenC	*Madison*
O'Neil, LaNora Ann	LS	*Madison*
Onsgard, Elinor Claribel	LS	*Madison*
Onsrud, Emma Harriett	LS	*Arcadia*
Onsrud, Johann Max	LS	*Rutland*
Orear, Leslie, Jr.	ExpC	*Chicago, Ill.*
Osgood, Ella Margaret	LS	*Waukegan, Ill.*
O'Sheridan, Eleanor Marie	PhIV	*Madison*
Ossowski, Virginia Mary se	AA	*Oak Park, Ill.*
Osterfund, Wendell Hall	LS	*Madison*
Osterhout, Marcus George	PreMed	*LaCrosse*
Ostrander, Dorothy Marguerite se	AA	*Deadwood, S. Dak.*
Otterbein, Mary Louise	LS	*Davenport, Iowa*
Ovitt, David Wilkie	ChC	*Madison*
Owen, Donald Sylvester	LS	*Oconomowoc*
Ozer, Bailey, Irving	ExpC	*Cleveland, Ohio*
Pabst, Imma	LS	*Chicago, Ill.*
Padway, Mildred May	LS	*Milwaukee*
Page, Ruth Fozier	LS	*Madison*
Pagel, Alvin Frederick	LS	*Brandon*
Paley, Bella	LS	*Madison*
Paley, Bess	LS	*Madison*
Palmer, Isabelle Marion	CH	*Madison*
Palmer, Marjorie Arlene	LS	*Brodhead*
Palmer, Mary Carolyn se	AA	*Toledo, Ohio*
Pancoe, Florence Phyllis	LS	*Glencoe, Ill.*
Pankow, Gertrude Carolyn se	AA	*Madison*
Paratore, Angelina Josephine	LS	*Madison*
Parelhoff, Elinor Joy	LS	*New York, N. Y.*
Parham, Marjorie Elizabeth	LS	*Veedersburg, Ind.*
Parke, George	PreMed	*Viola*
Parker, Selma Sable	LS	*Syracuse, N. Y.*
Parkinson, Robert McCoy	LS	*Madison*
Parks, Dorothy Louise	LS	*Hammond, Ind.*
Parr, Mary Evelyn	LS	*East Cleveland, Ohio*
Parry, William James se	AA	*Dodgeville*
Parson, Delbert Joseph	LS	*Darlington*
Partch, Robert Estel	LS	*Columbus*
Pasch, Mary Bertha	LS	*New Holstein*
Paschen, Howard Sylvester	ChC	*Kaukauna*
Passen, Matilda	LS	*Chicago, Ill.*
Patchen, Kennteh Fred	ExpC	*Warren, Ohio*
Paul, Malcolm Clark	LS	*Milton Junction*
Peacock, William Gilbert, Jr. se	AA	*Wilmette, Ill.*
Peckham, Caryl Josephine	LS	*Madison*
Pederson, Frederick Wenzel	LS	*La Crosse*
Pederson, Milo Willard	LS	*Westby*
Pejza, Philip Peter	LS	*Beaver*
Pennington, Margaret Louise	GenC	*Madison*
Perry, Alice Margaret	LS	*Chicago, Ill.*
Perschbacher, Ray Gustaph	PreMed	*Kewaskum*
Petasnick, Morris	LS	*Sheboygan*
Peters, Fred	GenC	*La Crosse*
Peterson, Coreen Delaviere	LS	*Madison*
Peterson, Earl Dewain	LS	*Crookston, Minn.*
Peterson, Harold Clifford	LS	*Burlington*

Peterson, Leslie Marshall	PreMed	*Phillips*
Peterson, Mary Jeanette	GrN	*Rockwell City, Iowa*
Peterson, Melvin	LS	*Marinette*
Pett, R. Marcell	LS	*Edgerton*
Pevear, Catherine Cushing se	PhysEd	*Larchmont, N. Y.*
Pexa, Edward D. se	PhysEd	*Montgomery, Minn.*
Pfeffer, Elanora Katherine	LS	*Oak Park, Ill.*
Pflug, Wilbur Henry	GenC	*Cleveland, Ohio*
Pheatt, Janice Laura	LS	*Milwaukee*
Phelps, Norman Flanders	M	*Beaver Dam*
Phillips, Ethan Lafayette	LS	*Chilton*
Phillips, George Ernst	ExpC	*Linden, Va.*
Philps, Chester James	LS	*Camp Douglas*
Phipps, Thelma Amy	GrN	*Valders*
Piazzi, Reynolds Ronald	PreMed	*Hurley*
Pickar, Daniel Nicolas	LS	*North Freedom*
Pierce, Jane	LS	*Milwaukee*
Piercy, Alice	GenC	*Kansas City, Mo.*
Pierson, Earl Wendell	LS	*Elgin, Ill.*
Pike, Frances Merle	LS	*Detroit, Mich.*
Pike, Harry MacCulloch	LS	*Portage*
Pike, Lorraine Carnegie	LS	*Portage*
Pinchenson, Lillian Sylvia	LS	*Staten Island, New York, N. Y.*
Piper, Mildred Allison se	PhysEd	*West Allis*
Piser, Louis	ExpC	*Mishawaka, Ind.*
Place, Newton George	LS	*Hartford*
Plantico, Kenneth Hugo	LS	*Manitowoc*
Pleuss, Anita Fredericka	LS	*Manitowoc*
Ploetz, Leonard Hubert	LS	*Lodi*
Ploetz, Rudolph John	PreMed	*Sheboygan*
Plous, Herman Ime	LS	*Iron River, Mich.*
Plumlee, Margaret Mitchell	LS	*Madison*
Pollack, Bernard Gustave	LS	*Chicago, Ill.*
Pollak, Edward	LS	*Long Beach, L. I., N. Y.*
Pollock, Walter William, Jr.	LS	*Philadelphia, Pa.*
Polny, Michael Peter	LS	*Berwyn, Ill.*
Poloson, Nicholas Long	PreMed	*East Chicago, Ind.*
Pomainville, Carol Lillian Marie	LS	*Nekoosa*
Popper, Elinor	LS	*Winnetka, Ill.*
Porter, Jack Donald	PreMed	*Bloomington*
Porter, Marjorie Grace	LS	*Birmingham, Mich.*
Postel, Virginia Mary	LS	*Muscoda*
Potter, Octavia Flora	LS	*Racine*
Powell, Anne Marie	LS	*Wausau*
Powers, Eugene Allan	LS	*Winnetka, Ill.*
Prescott, Mary-Jean se	PhysEd	*River Forest, Ill.*
Prescott, Walter M. O. se	PhysEd	*Madison*
Press, Morris	ExpC	*Union City, N. J.*
Price, Margaret Elizabeth se	AA	*Madison*
Prochnow, Phyllis Evlyn	HygC	*Wilton*
Proctor, Thomas Weitzel	GenC	*Chicago, Ill.*
Prouty, Virginia Margaret se	PhysEd	*Evanston, Ill.*
Pruessing, William Skiles	PreMed	*Milwaukee*
Puskar, Mary Elizabeth	LS	*Kewaunee, Ill.*
Putnam, Margaret Magdalena se	AA	*Monrovia, Cal.*
Puttler, Oliver Ludwig	PreMed	*Milwaukee*
Pyre, Augustin	LS	*Madison*
Quain, Buell H.	LS	*Bismarck, N. Dak.*
Quarles, Lorna Lee	LS	*Milwaukee*
Quentin, Delorme Lawrence	GenC	*Milwaukee*
Quinn, Harry Charles	LS	*Madison*

Rabinoff, Carter Valentine	LS	*Chicago, Ill.*
Rabyor, Mary	LS	*Janesville*
Radcliffe, Robert	LS	*Eagle River*
Rahe, Maxine Foster	PreMed	*Fort Wayne, Ind.*
Rahr, Marguerite	LS	*Manitowoc*
Rahr, Paul Frederick	LS	*Manitowoc*
Ralph, Robert Arundel	LS	*Cleveland, Ohio*
Ramsay, Ronald Templeton	LS	*Honolulu, Hawaii*
Ramsdell, Leland Franklin	LS	*Mendota*
Ramsdell, Louise	LS	*Ashtabula, Ohio*
Randall, Jean	M	*Cincinnati, Ohio*
Rannenberg, Juliet Amelia	GrN	*Madison*
Rapraeger, Walter Glenn	LS	*Wausau*
Rasmussen, John Edward	LS	*Madison*
Rather, William Albert	LS	*Neenah*
Ray, Charlotte Amy	LS	*Chicago, Ill.*
Redick, George May	LS	*Omaha, Nebr.*
Redmond, George Foote	LS	*Racine*
Reese, Philip John	LS	*Dodgeville*
Reeve, Gregg	M	*Waunakee*
Rein, Walter John	PreMed	*Springfield, Ill.*
Reinardy, Margaret Mary	LS	*Burlington*
Reinhard, Erwin Ernest	LSAdSp	*Kenosha*
Reisinger, George Loraine	ChC	*Sturgeon Bay*
Relihan, Robert Thomas	LS	*Corning, N. Y.*
Rendok, John Harold	PreMed	*Janesville*
Renk, Victor Anthony	LS	*Madison*
Rennels, Thomas Cable	PreMed	*Park Falls*
Reynolds, E. Graham	GenC	*Madison*
Reynolds, Horace Arthur	GenC	*Evansville*
Reynolds, John Adams	LS	*Winnetka, Ill.*
Reynolds, Thomas Flatley	GenC	*Green Bay*
Rhine, Henry	ExpC	*Brooklyn, N. Y.*
Rhodee, Lawrence Frank se	PhysEd	*Oconomowoc*
Richards, Ben Howard	GenC	*Edwardsville, Ill.*
Richards, Elizabeth	LS	*Evanston, Ill.*
Richardson, Jean Dorothy	LS	*Sheboygan Falls*
Richmond, Kenneth Ellis	LS	*Chicago, Ill.*
Rickard, Roy Kenneth	LS	*Vancouver, B. C., Can.*
Riddle, Florence Ward	LS	*Winnetka, Ill.*
Rider, Arthur Chrystie	LS	*Geneseo, Ill.*
Rigsbee, Edythe Nelma	LS	*Marion, Ind.*
Rikkers, Judson John	PreMed	*Waupun*
Riley, Ruth Elizabeth se	PhysEd	*Madison*
Rinelli, Alfred Sebastian	LS	*Kenosha*
Risdon, Walter Joseph	GenC	*Detroit, Mich.*
Ristau, Carl Haven	LS	*North Freedom*
Ritchie, Clayton Francis	M	*Royaltown*
Ritten, Virginia Alpha	LS	*Appleton*
Rittenhouse, David Raymond	LS	*Pontiac, Ill.*
Rittenhouse, Marjorie Emma	LS	*Pontiac, Ill.*
Roberts, Millicent Margaret	LS	*Portage*
Roberts, Rollo Hibberd se	AA	*Chicago, Ill.*
Roberts, Russell	PreMed	*Platte, S. Dak.*
Robertson, Charles Emery	LS	*Minneapolis, Minn.*
Robineau, Jack	LS	*Beaver Dam*
Robinson, John	LS	*Madison*
Roche, Jack Edward	LS	*Waukegan, Ill.*
Rockman, Helen Margaret	LS	*Barron*
Rockwell, Lenice Violet	LS	*Richland Center*
Rode, Dorothy Ellen	LS	*Oak Park, Ill.*

Rodehaver, Myles William	LS	*Wausau*
Roe, Gwyneth King	LS	*New York, N. Y.*
Roe, Olaf Karl	GenC	*Stoughton*
Roethe, Charles Edward	LS	*Fennimore*
Rogers, Harlan Betheene, Jr.	LS	*Portage*
Rogers, Sion Clay	PreMed	*Wauwatosa*
Rohde, Edgar Carl	LS	*Plymouth*
Rohr, Max	ChC	*Watertown*
Rohr, Mitchell Charles	LS	*Dodgeville*
Rollin, Winifred Mary	LS	*Western Springs, Ill.*
Romnes, Bjarne	GenC	*Stoughton*
Rood, Moses Jackson se	PhysEd	*Waterloo*
Rosa, Joseph	LS	*Madison*
Rose, Edward Milton	LS	*Lafayette, Ind.*
Rosenbaum, Harry William	PreMed	*Brooklyn, N. Y.*
Rosenberg, Elizabeth Anne	LS	*Mount Vernon, N. Y.*
Rosenbluth, Samuel Henry	LS	*Plainfield*
Rosenstein, Shirley Isabel	LS	*Milwaukee*
Rosenstein, Stanley	LS	*Mishawaka, Ind.*
Ross, Fordyce Allison	PreMed	*Milwaukee*
Ross, John James	LS	*Milwaukee*
Ross, William Hulin	ExpC	*Rockford, Ill.*
Rosten, Edwin	LS	*Madison*
Roth, Henry George	ChC	*Madison*
Roth, Herbert B.	LS	*Milwaukee*
Rothman, Leonard Edward	PreMed	*Milwaukee*
Rounds, R. Clayton	LS	*Wausau*
Rubadeau, Augustus Martin	LS	*Madison*
Rubadeau, Margaret Janette	LS	*Madison*
Rubnitz Zelda Vivian	LS	*Milwaukee*
Ruden, Elliott Stafford	ExpC	*Bryant, S. Dak.*
Rudie, Jules Hiram	PhIII	*Westby*
Rudolph, Burnell Franklin	LS	*Kenosha*
Ruedisili, Chester Henry se	PhysEd	*Milwaukee*
Ruesch, David Hartwig	PreMed	*Medford*
Ruffolo, Phoenix	LS	*Racine*
Ruoff, Herman John	PreMed	*LaCrosse*
Rupp, Edward Gilmore se	AA	*Madison*
Rusch, Ferdinand William	LS	*Wabeno*
Ruskin, Sam	LS	*Madison*
Russakov, Iva Ruth	LS	*Chicago, Ill.*
Rust, Walter	LS	*Medford*
Rutz, Henry Charles	LSAdSp	*Milwaukee*
Sachs, Herbert	LS	*Pittsburgh, Pa.*
Sachtjen, Marion Edward	LS	*Madison*
Sacks, Alfred	ExpC	*Spring Valley, Ill.*
Saecker, Pauline Caroline	LS	*Lake Mills*
Saggio, Joe	ChC	*Milwaukee*
Salb, Elise Augusta	LS	*Berwyn, Ill.*
Salinsky, Lester Vance	PreMed	*Sheboygan*
Sanborn, Arthur Craig	LS	*Madison*
Sand, Marcia	LS	*Brooklyn, N. Y.*
Sandell, Arthur Henry se	PhysEd	*Madison*
Sands, Carl Elwood McVey	LS	*Reading, Pa.*
Sautilli, Michael Albert	LS	*Milwaukee*
Sapir, Herbert Michael	ExpC	*Chicago, Ill.*
Sapiro, Jerry Jack	LS	*Milwaukee*
Sapp, Arthur Manington	ExpC	*Ottawa, Ill.*
Sargent, Clarendon James	PreMed	*Green Bay*
Satin, Minnie Marion	M	*Chicago, Ill.*
Sattler, Martha Alice se	PhysEd	*Mansfield, Ohio*

Sauers, Earl George	GenC	*Beloit*
Savage, Elizabeth Tacy	LS	*Shirland, Ill.*
Savaglio, James Vincent	PreMed	*Kenosha*
Savoye, Grace Eddy	LS	*Westfield, N. J.*
Sax, Milton Marcus	LS	*Milwaukee*
Sceales, Merl Ernest	LS	*Baraboo*
Schabell, Norman Aloysius	LS	*Elcho*
Schacht, Walter Julius	PreMed	*Milwaukee*
Schaeffer, John Anthony	LS	*Chicago, Ill.*
Schaetzel, Laurinda I.	LS	*Germantown*
Schafer, Frederick se	AA	*Madison*
Schafer, Helen Elizabeth	LS	*Hurley*
Schafer, Joseph	LS	*Madison*
Scharff, Arthur A., Jr.	LS	*St. Louis, Mo.*
Schaus, Bernice M. J.	LS	*Madison*
Schefelker, George Irving	PhIV	*Marinette*
Scheibel, Greta Joanne se	AA	*Madison*
Schein, John Edwards	LS	*Oshkosh*
Schein, Samuel	PreMed	*Brooklyn, N. Y.*
Schendel, Herman Wilbur	LS	*Milwaukee*
Schilke, Roland Lenhart	LS	*Green Bay*
Schipek, Victor Oswald	LS	*Chicago, Ill.*
Schleifer, Joseph LeRoy	ExpC	*Brooklyn, N. Y.*
Schlender, Roy Albert se	PhysEd	*Lake Mills*
Schlesinger, Clarice Hilda	LS	*Far Rockaway, N. Y.*
Schlinkert, Leroy W. James	ExpC	*Milwaukee*
Schlitz, Marion Elizabeth	LS	*Wauwatosa*
Schloemer, Howard Frederick	PreMed	*Jackson*
Schlomovitz, Eugene Bernard	LS	*Milwaukee*
Schloss, Charles Miller	LS	*Cleveland, Ohio*
Schlossman, Claribel	LS	*Waukesha*
Schluter, Lester George	LS	*Madison*
Schmidt, Chester Herman	GenC	*Wauwatosa*
Schmidt, Cornelia Evelyn	GrN	*Madison*
Schmidt, Clarence Theodore	LS	*Hustisford*
Schmidt, Erwin George	LS	*Milwaukee*
Schmidt, Gordon Wesley	PhIV	*Neenah*
Schmitt, Carol Isabelle	M	*Madison*
Schmitt, Russell Arthur	LS	*Madison*
Schneider, Eleanor Mae	LS	*Madison*
Schneider, Louis John	LS	*Milwaukee*
Scholl, John Nicholas	LS	*Milwaukee*
Schonfeld, Alex	LS	*Brooklyn, N. Y.*
Schuck, Daniel Emil	GenC	*Slinger*
Schuld, Elmer George	LS	*Johnson Creek*
Schuler, Charles Carson	LS	*Chicago, Ill.*
Schultz, Kermit Louis	LS	*Tomahawk*
Schultz, Mazy Elizabeth	LS	*Beardstown, Ill.*
Schultz, Ray Ellsworth se	PhysEd	*Madison*
Schultz, Dorothy Marie Ellen	LS	*Kenosha*
Schulz, Mary Louise se	AA	*Madison*
Schulze, Ethel Martha se	AA	*Forest Park, Ill.*
Schuman, William Walter se	AA	*Madison*
Schuster, Boris	PreMed	*Stoughton*
Schwartz, Martha Adele	LS	*Lancaster*
Schwei, George Peter se	PhysEd	*Milwaukee*
Schwei, Joe Paul se	PhysEd	*Milwaukee*
Schweiger, Louis Peter	GenC	*Jefferson*
Schweke, Ruth Berda	LS	*Reedsburg*
Scofield, Ann McDougell	LS	*La Grange, Ill.*
Scott, Bruce D.	ChCC	*Madison*

Scott, John	ExpC	*Pawling, N. Y.*
Scott, Martha Stephens	LS	*Chicago, Ill.*
Scribner, Ernest John	LS	*Waterloo*
Searth, Frances Elma	LS	*Sturgeon Bay*
Sebora, Lester Henry	ChC	*Junction City*
Secore, Donald Frederick	LS	*Rice Lake*
Seelig, Frank Hartz	ExpC	*St. Louis, Mo.*
Selck, Ruth Eva	LS	*Footville*
Sellery, Jean	CH	*Madison*
Senderowitz, Anna	LS	*Allentown, Pa.*
Serres, Arthur Ralph	GenC	*LaCrosse*
Serwe, Lawrence Joseph	LS	*Fond du Lac*
Setlick, Louis	PhIV	*Madison*
Shaheen, Lereice Helen	LS	*Streator, Ill.*
Shanesy, Richard Thomas	PreMed	*Hillsboro*
Shapiro, Harry	LS	*Roxbury, Mass.*
Shapiro, Leo, Jr.	ChCC	*Duluth, Minn.*
Shark, Donald Alexander	LS	*Green Bay*
Shaw, Merton Carlyle	LS	*Kingston*
Shea, Eileen Rosalynde	LS	*Madison*
Sheil, Joseph Mark se	PhysEd	*Madison*
Shekey, Dorothy Irene	LS	*Johnson Creek*
Shell, Corwin Edward	PreMed	*Madison*
Sherburne, Lucile Barbara	LS	*Fremont*
Sherman, Corinee Leonore	PreMed	*Chicago, Ill.*
Sherrill, Elizabeth	LS	*Evanston, Ill.*
Sherwood, Agnes Clay se	AA	*Lexington, Ky.*
Shields, Helen Ione	LS	*Gays Mills*
Shields, Marion Susan	LS	*Grand Rapids, Mich.*
Shimek, Elizabeth Mary	LS	*Manitowoc*
Sholts, Dorothy Belle	LS	*Oregon*
Shove, Bobb Douglas	PreMed	*Ironwood, Mich.*
Shreck, Charles Mayer	GenC	*Omaha, Nebr.*
Shuman, Arthur Wilson	LS	*Madison*
Sieber, Miriam Adinee	LS	*Livingston*
Siegel, Abner Morton	LS	*New York, N. Y.*
Sigal, Helene	LS	*Chicago, Ill.*
Silbernagel, Herman Alfred	LS	*Madison*
Silgen, Tom Harold	GenC	*Fond du Lac*
Silverman, Eugene	PreMed	*Elkins Park, Pa.*
Silverstein, Justin A.	ExpC	*Terre Haute, Ind.*
Silverwood, Betty Ellen	LS	*Seymour*
Simon, Clarence Joseph	GenC	*Milwaukee*
Simons, Arthur	PreMed	*Brooklyn, N. Y.*
Simonson, Josephine Marie	LS	*Flint, Mich.*
Sinaiko, Anita Ruby	LS	*Madison*
Sinaiko, Ruth Ellen	LS	*Madison*
Sinclair, Chetwyn Eubank	ExpC	*Hempton, Va.*
Singer, Simon Prideaux se	PhysEd	*Dodgeville*
Singletary, Gaylord Penson	LS	*Beloit*
Sister Mary Felicia Pittz	M	*Racine*
Sister Mary Letitia Hauber	M	*Racine*
Skidmore, James Earl	LS	*Mansfield, Ohio*
Slade, Dwight Merrick	LS	*Wheeling, W. Va.*
Slightam, Janet Amelia	LS	*Madison*
Sloane, Richard Bartoo	LS	*Chicago, Ill.*
Sloman, Lisbeth Jay	GenC	*Detroit, Mich.*
Slusser, Winifred May	LS	*Chicago, Ill.*
Small, Ruby Perle	CH	*Madison*
Smergalski, Eugene Theodore	PreMed	*Chicago, Ill..*
Smilgoff, James se	PhysEd	*Chicago, Ill.*

Smith, Alice Marie se	AA	*Madison*
Smith, Beatrice Edith	LS	*Wauwatosa*
Smith, Beverly	LS	*Brodhead*
Smith, Margaret	LS	*Detroit, Mich.*
Smith, Robert Burns	LS	*Rockford, Ill.*
Snyder, Dorothy Helen	LS	*Hartford*
Snyder, Virginia Lorraine	LS	*Janesville*
Soffel, John Wilbert	GenC	*Pittsburgh, Pa.*
Soley, Inga Nella	LS	*Friendship*
Soli, Conrad Albert	LS	*Thorp*
Solimene, Frank A.	LS	*Kenosha*
Solin, Leslie Vance	LS	*Superior*
Solle, Lillian Edna Anita se	AA	*Madison*
Solso, Earl Wesley	GenC	*Madison*
Solverson, Clarice Theodora	M	*Viroqua*
Sommerfield, Eugene	LS	*Chicago, Ill.*
Sorensen, Sterling	LS	*Pine River*
Soseman, Mary Suzanne	LS	*Monroe*
Southern, Grace Winefred	LS	*Westby*
Sowerwine, Joe Geddes	GenC	*Huntington, Ind.*
Sowle, Luetta Jeanette	GrN	*Tomah*
Sowls, Mona Bernice	LS	*Darlington*
Spencer, James Lovesee	LS	*Beloit*
Spielman, Helen Bridge	LS	*Miamisburg, Ohio*
Spindler, Robert Edward	LS	*Milwaukee*
Spongberg, Alan Edward	PreMed	*Rockford, Ill.*
Staak, Charles James	PreMed	*Beloit*
Staehling, William Servatius	PreMed	*Waupun*
Stagg, Dudley A'Court	LS	*La Grange, Ill.*
Stahl, James D.	LS	*Madison*
Stair, Lyle Oscar	PhIII	*Stanley*
Stair, Sidney Halcomb	LS	*Brodhead*
Stallman, Robert Wooster	LS	*Milwaukee*
Standring, Mary Florence se	PhysEd	*Marion, Ind.*
Stanek, George Louis	LS	*Madison*
Stanelle, Albert Lawrence	LS	*Forest Junction*
Stang, Evelyn Marion	LS	*Madison*
Starewich, Edward	ExpC	*Maywood, Ill.*
Starritt, Charles William	LS	*Crystal Lake, Ill.*
Start, Gyn Harrison	PreMed	*Toledo, Ohio*
Stasko, Joseph John	LS	*Chicago, Ill.*
Stavrum, Florence	LS	*Chicago, Ill.*
Steensland, Halberta Amalia	LS	*Madison*
Stein, Meril	LS	*Madison*
Steinberg, George	GenC	*New York, N. Y.*
Steinmetz, Ruth Marie	LS	*Milwaukee*
Steinweg, Alma M.	LS	*Reedsburg*
Stensby, Arne Edward	PhIV	*Stoughton*
Stern, Gyla Berttrelle se	PhysEd	*Beaver Falls, Pa.*
Sternlicht, Vivian Marie	LS	*Beloit*
Steucek, Albert Charles	GenC	*Branford, Conn.*
Steven, David Ritchie	GenC	*Eau Claire*
Stevens, Mary Elizabeth	GrN	*Montreal*
Stevens, Roger Thomas	LS	*Chicago, Ill.*
Stevenson, Myron Guy	GenC	*Marinette*
Steves, Richard Jerome	PreMed	*Menomonie*
Stewart, Harry Charles	LS	*Hartford*
Stewart, Robert Silas	LS	*Cedar Rapids, Iowa*
Stewart, Walter Mac	GenC	*Milwaukee*
Stibbs, Bertha Elizabeth	LS	*Chicago, Ill.*
Stich, Velma Estelle	LS	*Stitzer*

Stiefel, Edward Marshall	LS	*Chicago, Ill.*
Stiles, Frances Marguerite	LS	*Cheroke, Ia.*
Stoddard, Aubrey Claude	LS	*Davison, Mich.*
Stokburger, Dorothy Louise	LS	*Rockford, Ill.*
Stoll, Norman Adolph	LS	*Milwaukee*
Stolper, Earl Clarence	LS	*Plymouth*
Stolper, Lucille Margaret	M	*Plymouth*
Stone, Galyn Delmar	GenC	*Chicago, Ill.*
Stone, Grant Clifford	PreMed	*Fort Atkinson*
Stophlet, Eleanor Gilmer	LS	*Madison*
Stout, Ward Paul	LS	*Milwaukee*
Strain, Richard Wray	GenC	*Harvard, Ill.*
Strampe, William Edward	PreMed	*Reedsburg*
Strand, Gilman Elliott	LS	*Eau Claire*
Strand, Leonard Merle	LS	*Newman Grove, Nebr.*
Stratman, Ortner John	LS	*Dodgeville*
Straus, Henry	LS	*Louisville, Ky.*
Strand, Beryl McCoy	GrN	*Wauzeka*
Stuart, Marion Ruth	LS	*Monroe*
Stump, Betty Louise	LS	*St. Joseph, Mich.*
Stump, LeRoy Chester se	PhysEd	*Abbotsford*
Sturgul, Roman Harold	PreMed	*Hurley*
Sturzenegger, Eugene Max	LS	*Kenosha*
Suhr, Frederick Carl	LS	*Madison*
Sundene, Andrew, Jr.	LS	*Chicago, Ill.*
Surquist, John Miles	GenC	*Kenosha*
Sutton, Paul Noble	LS	*Wright, Minn.*
Swan, Berton Lowry	LS	*Mazomanie*
Swan, Mitchell John	LS	*St. Cloud, Minn.*
Swanson, Floyd Arthur	LS	*Rhinelander*
Swanson, Fred Warren	LS	*Des Moines, Ia.*
Swanson, Ralph Edward	LS	*Chicago, Ill.*
Swartz, Beatrice	LS	*Chicago, Ill.*
Sweeney, Charles Donald	PhIII	*Edgerton*
Sweeney, Marie Josephine	LS	*Edgerton*
Sweet, Esther Rica se	AA	*Madison*
Sweet, Harry Nathan	LS	*Madison*
Sweet, Sam se	PhysEd	*Madison*
Swendson, Dorothy Jane	LS	*Wauwatosa*
Switzky, Millard Paul	PreMed	*Milwaukee*
Taber, James Webster	LS	*Freeport, Ill.*
Tandvig, Oscar Bertrand	PreMed	*Madison*
Tangen, Mildred	GrN	*Two Rivers*
Tannenbaum, George	LS	*Milwaukee*
Tax, Ervin Hanwit	LS	*Milwaukee*
Taylor, Elvira Jane	LS	*Madison*
Teare, John P.	LS	*Vincennes, Ind.*
Tehan, Mildred Marie	LS	*Madison*
Tenebaum, Lena	LS	*Pittsburgh, Pa.*
Tepper, Rubye Herzfeld se	PhysEd	*Selma, Ala.*
Terrell, Charlotte Elizabeth	LS	*Mineral Point*
Thayer, Genevieve Irene	GenC	*Madison*
Thayer, Robert Henry	LS	*Glencoe, Ill.*
Thelen, Johanna Christine	PreMed	*Madison*
Thiede, Chester Chase	LS	*Appleton*
Thomas, Dorothy Alice	LS	*Highland Park, Mich.*
Thomas, Dorothy Ellen	LS	*Madison*
Thomas, Dorothy Jeanette se	PhysEd	*Sterling, Ill.*
Thompson, Glenn Northrup	LS	*Cleveland, Ohio*
Thompson, Ronald Newton	ChC	*New Lisbon*
Thompson, Rosella Ann	LS	*Seymour*

Thomson, Alva Allen	LS	*Richland Center*
Thomson, Mary Eunice	LS	*Madison*
Tice, Myra Alice	LS	*Goodland, Ind.*
Tigay, Miriam	LS	*Hammond, Ind.*
Timmerman, Lawrence Walter	LS	*Milwaukee*
Tindall, Mary Olive	LS	*Waterford*
Tindall, Mildred Elizabeth	LS	*Milwaukee*
Tipograph, Leonore	LS	*Montreal*
Tisdale, W. White	LS	*Allegan, Mich.*
Tolchin, Jack Maxon	PreMed	*Milwaukee*
Toledano, Gladys	LS	*New York, N. Y.*
Tomasin, Louis Anthony	LS	*Hurley*
Torcom, Manas Millington	LS	*Chicago, Ill.*
Torkelson, Christine Martha	LS	*Madison*
Torrey, Emerson Arthur	LS	*Milwaukee*
Totto, Charles Wycoff	LS	*Madison*
Towne, Claude Miner	LS	*Waterloo*
Trant, Eva May Jeanette	LS	*New York, N. Y.*
Traskell, Charles Peter se	PhysEd	*Beloit*
Treleven, John Longdin	LS	*Fond du Lac*
Treskow, Irma	LS	*Eldora, Iowa*
Trinko, Joseph Richard	LS	*Menomonie*
Tripp, Ruth Elsie	LS	*Petoskey, Mich.*
Trope, Martyl	LS	*Tulsa, Okla.*
Trostle, Franklyn Walter se	PhysEd	*Madison*
Trowbridge, Clara Louise	LS	*Chicago, Ill.*
Tucker, Sibyl Selma	LS	*Flat River, Mo.*
Turba, Claude Stuart	LS	*Chilton*
Turner, Glenys Elizabeth	GrN	*Janesville*
Turner, Louise Margaret	GrN	*Eagle*
Turner, Willard Orvil se	PhysEd	*Richland Center*
Tuttle, Selwyn Reid	GenC	*Madison*
Two, Alfred Bert	ChC	*Winnebago, Ill.*
Ufheil, Virgiluis Joseph	LS	*Huntington, Ind.*
Uhlir, James John	GenC	*Chicago, Ill.*
Uphoff, Carl Simon	LS	*Madison*
Uphoff, Eleanor Grace	LS	*Madison*
Uphoff, Vera Jeanette	LS	*Madison*
Valitchka, Roy Francis	LS	*Oconto*
Van Abel, Cyril Francis	LS	*Madison*
Van Buskirk, Alice Louise	LS	*Fort Wayne, Ind.*
Vanderbilt, Marie Elizabeth	LS	*Chicago, Ill.*
Van Doozer, Betty Evelyn	LS	*Janesville*
Van Hallen, Byron Floyd	LS	*Osceola*
Van Slyke, John Basil	GenC	*Maywood, Ill.*
Van Sustern, Olive Christine	LS	*Madison*
Van Tassel, Alfred James	ExpC	*Berkeley, Cal.*
Van Zant, Martha Jane	LS	*Newcastle, Ind.*
Van Zon, Joseph William	LS	*Manitowoc*
Vary, John Broughton	LS	*Elgin, Ill.*
Vath, Verna Augusta	M	*Middleton*
Veit, Aleatha Merle se	PhysEd	*Lakewood, Ohio*
Verduin, Frederic Charles	ChC	*Cudahy*
Vermeren, Paul Cyrille	PreMed	*Evanston, Ill.*
Viall, Ruth se	PhysEd	*Janesville*
Vicker, Louis Arthur	ExpC	*Chicago, Ill.*
Vingom, Earl Russell	LS	*Madison*
Vinson, Albert Wilkinson, Jr.	LS	*Milwaukee*
Vircks, Clarence Max	LS	*Dorchester*
Vivian, Evelyn Clara	LS	*Mineral Point*
Vladeck, May Charney	LS	*New York, N. Y.*

Von Eiff, Herbert Craft W.	LS	*Milwaukee*
Voss, Audrey Dee se	AA	*Manitowish*
Voss, William Bernard	LS	*Milwaukee*
Wagener, Ruth Isobel	LS	*Sturgeon Bay*
Wagner, Ralph Howard	LS	*Waterbury, Conn.*
Wagner, Raymond P.	GenC	*West Hartford, Conn.*
Wahler, Leona Maie	M	*La Valle*
Wahler, Viola Claire	M	*Madison*
Walch, William Henry	LS	*Antigo*
Walczak, Emily Shirley	LS	*Milwaukee*
Wald, Jeanette Marie	LS	*Winnetka, Ill.*
Waldbott, Eugene Samuel, Jr	LS	*Chicago, Ill.*
Waldman, Emerson Gilmour	ExpC	*New York, N. Y.*
Waldo, Barbara Jean	LS	*Kalamazoo, Mich.*
Waldrip, Martha Jane	LS	*Streator, Ill.*
Walker, Walter Taft	LS	*Kenosha*
Wallace, James Clinton	LS	*Portland, Ore.*
Wallens, Haskell Charles	LS	*Niagara Falls, N. Y.*
Walsh, Barnard	ExpC	*New York, N. Y.*
Warner, William Hughson	LS	*Madison*
Warrington, Marion	LS	*Evanston, Ill.*
Wason, Charles Bronnell	ExpC	*Mountain Lakes, N. J.*
Waters, Hardin Clark	ExpC	*Takoma Park, Md.*
Watkins, Harold Jerome	GenC	*Barneveld*
Watson, Albert Schoenberg	ExpC	*Chicago, Ill.*
Watson, Grace Dinsmore	LS	*San Diego, Cal.*
Watson, Willard Sutherland	GenC	*Almond*
Waugh, Jean Felicity se	AA	*Wauwatosa*
Webb, Wilfred Hays	GenC	*Madison*
Weber, Janet Helen	LS	*Evansville*
Weber, Jane Violet	LS	*Cudahy*
Weber, Lester Frank	LS	*Chicago, Ill.*
Weber, Michael Joseph	LS	*Kaukauna*
Wedemeyer, Charles Adrian	LS	*Milwaukee*
Week, Norma Kathryn	LS	*Wausau*
Weil, Amelia Frank	LS	*Chicago Ill.*
Weiland, Wilbur Robert	LS	*Wausau*
Weiler, Edith Dorothy	LS	*New York, N. Y.*
Weiler, Edward Charles	LS	*Madison*
Weiner, Anita Jonquil	LS	*Milwaukee*
Weingarten, David	PreMed	*Bronx, N Y.*
Weinhagen, Elizabeth se	PhysEd	*Milwaukee*
Weinhagen, Winifred	LS	*Milwaukee*
Weinstein, Anne Frances	M	*Madison*
Wellenhofer, John Louis	LS	*Chicago, Ill.*
Wells, Hope Marie	LS	*Kenosha*
Wells, Lauren Hubert	LS	*Waupun*
Wenban, Frank James	GenC	*Lake Forest, Ill.*
Wenger, Helen Anne Elizabeth	LS	*Madison*
Wenzlaff, Russell Stelling	LS	*Reedsville*
Werner, Charles Herman	LS	*Milwaukee*
Werner, Joseph Gustave	LS	*Newcastle, Ind*
Werner, Virginia se	PhysEd	*St. Louis, Mo.*
Wertheim, Josephine Alma	LS	*New York, N. Y.*
Wescott, Royal James	PreMed	*Port Washington*
Wessel, Vivian Margaret	LS	*Madison*
West, John David	LS	*Madison*
Westcott, John Henry	GenC	*Erie, Pa.*
Wetter, Esther Ann	LS	*Lancaster*
Wayburn, Harriet Lenore	LS	*Oak Park, Ill.*
Wheary, Eugene Charles	LS	*Racine*

Wheelwright, James Bigelow		LS	*Marshall*
Wheelan, Alden Ballow		LS	*Mondovi*
Whiting, George Albert		LS	*Neenah*
Whittaker, Helen Louise		LS	*Williamsburg, Pa.*
Wideman, Gretchen Eileen		LS	*Madison*
Wieboldt, Williams Herman		LS	*Highland Park, Ill.*
Wiedenbeck, Theodore Frederick		GenC	*Madison*
Wiegand, Edward Vincent		LS	*Sturgeon Bay*
Wiegand, Luella Emma	se	AA	*Green Bay*
Wiemer, Marion Victoria		LS	*Omaha, Nebr.*
Wiemer, Paul Nathaniel, Jr.		LS	*Omaha, Nebr.*
Wigell, Clarence Arthur		M	*Waukegan, Ill.*
Wilbur, Charles Richard		GenC	*Waukesha*
Wilda, Paul Victor		LS	*Manitowoc*
Wildeman, Marion Barabara		LS	*Madison*
Wilkinson, Donald Clemens		LS	*Spring Green*
Williams, Alice Margaret		LS	*Racine*
Williams, Jack David		GenC	*Lake Forest, Ill.*
Williams, Victor John		GenC	*Berlin*
Williams, William Albert		GenC	*Madison*
Williamsen, Ellen Marjorie		LS	*Racine*
Williamson, Bernice Olive		LS	*Mount Carroll, Ill.*
Willing, Richard Weed		LS	*Madison*
Willis, Mary Louise		LS	*Lake Geneva*
Willoughby, John Kernan		LS	*Chicago, Ill.*
Willoughby, Thomas William		LS	*Milwaukee*
Wilson, Henry John		LS	*Curtis*
Wilson, W. Kenneth		LS	*Madison*
Winning, Margaret Louise		LS	*Fond du Lac*
Winter, Earl Frank		PreMed	*Antigo*
Winter, Elmer Louis		LS	*Milwaukee*
Winterbotham, Charlotte Fern		LS	*Madison*
Wipperman, Frederic Francis		PreMed	*New Orleans, La.*
Wise, Earl Luther		LS	*Madison*
Withey, Elizabeth Harker		M	*Madison*
Witt, Robert William		LS	*Marshfield*
Witt, Rogers Arden		GenC	*Wisconsin Rapids*
Witte, Grant Louis		GenC	*Sheboygan*
Wittkopp, John Oscar		LS	*Plymouth*
Woelffer, Mabelle Alice		LS	*Waterloo*
Woerfel, Jessie Alice		LS	*Sturgeon Bay*
Woerner, John Gabriel		GenC	*St. Louis, Mo.*
Wolcott, Elliott James		LS	*Milwaukee*
Woldenberg, Amelie Mendelson	se	AA	*Madison*
Wolfort, Erma Louise	se	PhysEd	*St. Louis, Mo.*
Wollaeger, Constance Augusta		HygC	*Wauwatosa*
Wood, Albert Houser		ChC	*Indianapolis, Ind.*
Wood, Billie Catharine	se	PhysEd	*Chicago, Ill.*
Wood, Charles William		LS	*Adams*
Wooding, Gerald Gale		LS	*Oregon, Ill.*
Woodrow, Jack Herbert		LS	*Milwaukee*
Woodward, Dorothy Margaret		LS	*Madison*
Woodward, Frank Vivian		LS	*South Bend, Ind.*
Woolley, Jean Rea		M	*Madison*
Workman, John David		LS	*Lakewood, Ohio*
Wornson, Alma Olivia		LS	*Sun Prairie*
Woy, Margie Marceline		GenC	*Madison*
Wrase, Marie Elizabeth	se	AA	*Chicago, Ill*
Wright, Alice Elizabeth	se	AA	*Madison*
Wright, Catherine Ann		LS	*West Allis*
Wright, Lawrence Arnott		GenC	*Detroit, Mich*

Wright, Robert Bates	LS	*Rensselaer, Ind.*
Wypler, Alfred Robert	LS	*Woodhaven, N. Y.*
Yoknis, John	LS	*Chicago, Ill.*
Yonts, Charles Edward	LS	*Lakewood, Ohio*
Young, Clinton Sylvester	GenC	*Almond*
Young, George Daniel	LS	*Milwaukee*
Young, Helen Jean	LS	*Fort Atkinson*
Young, Maurice George	LS	*Oshkosh*
Zaban, Lillian	LS	*Atlanta, Ga.*
Zahn, Otto C.	LS	*West Bend*
Zarek, Mildred Katharine	LS	*Chicago, Ill.*
Zarwell, Virginia Alice	M	*Beaver Dam*
Zenker, Reeva Rowena	LS	*Janesville*
Zerwick, Kenneth Smythe	LS	*Madison*
Zibell, Roy Gerhart	LS	*Waterloo*
Zick, Clarence William	LS	*Weyauwega*
Ziebarth, Elmer William	GenC	*Columbus*
Ziegel, Erna Emma	GrN	*Beaver Dam*
Zieger, Betty	LS	*Owatonna, Minn.*
Zielke, Carl Arthur	LS	*Rib Lake*
Zierath, Gretchen Marie	LS	*Sheboygan*
Zillmann, Herman Richard	PreMed	*Colby*
Zimmermann, Kathryn Ida	LS	*Hartford*
Zimmermann, Adelbert Sextus	LS	*Sheboygan*
Zingg, Martha Mathilda	LS	*Verona*
Ziolkowski, Casmer Joseph	PreMed	*Racine*
Zitron, Arthur	LS	*Milwaukee*
Zlochenko, Frieda Elsie	LS	*Madison*
Zodtner, Ruth Lucille	LS	*Portage*
Zupancic, John, Jr.	LS	*Kenosha*
Zurfluh, Milton Gottfried se	AA	*Monroe*
Zwickey, Bonnie Lou	LS	*Ellsworth*
Zwolanek, Dorothy Elizabeth	LS	*Beloit*

MUSIC

UNCLASSIFIED

Allen, Elizabeth Hayward	*Madison*
Carter, Eleanor Keller	*Madison*
Dysland, Agnes	*Madison*
Endres, Marie A.	*Madison*
Erickson, Fanna C.	*Madison*
Fargo, Floyd Barnett	*Madison*
Fellows, Dorothy B	*Madison*
Glasier, Gilson G.	*Madison*
Goodwin, Fannie Wood	*Madison*
Kercheville, Ollia Christina	*Vermilion, S. Dak.*
Kimball, Norman C.	*Madison*
Kletzein, Katherine Damon	*Madison*
Lange, Barbara Klinefelter	*Madison*
Langer, Louise A	*Madison*
Miller, Theodosia	*Madison*
Plumlee, Alice Denton	*Madison*
Rooney, Rosemary Ursula	*Madison*
Saunders, Isabelle Helen	*Madison*
Sister Mary Martina	*Madison*
Slightam, Francis Ward	*Madison*
Smith, Edith Hope	*Madison*

Stebbins, Hortense Parker	*Madison*
Usher, Joy V.	*Madison*
West, Gladys Vera	*Madison*
Winterble, William Franklin	*Madison*
Zingen, Joseph Thomas	*Wauwatosa*

MEDICAL SCHOOL

FOURTH YEAR

Barnes, Harry Albert, B.S.	*Milwaukee*
Beatty, Harry Parke, B.A.	*Birmingham, Ala.*
Cummings, Earl Floyd, B.A.	*Hawkins*
Dollard, James Edward, B.A.	*Madison*
Elkins, Oscar Melville, B.A.	*Racine*
Fein, Nathan Nathaniel, B.S.	*Milwaukee*
Frechette, Francis M., B.S.	*Wisconsin Rapids*
Friske, Oscar Walter, B.A.	*Sparta*
Furlong, Thomas Francis, Jr., B.A.	*Milwaukee*
Gopadze, Illarion I, B.S.	*Madison*
Hutter, Adolph Matthew, B.A.	*Fond du Lac*
Icks, Karl Rudolph, B.S.	*Green Bay*
Kaska, Gordon John, B.S.	*East Troy*
Kleinpell, Walter Carolas, B.A.	*Madison*
Krehl, William Homer, B.A.	*Madison*
Kyhos, Emma Dowling, B.S.	*Madison*
Lavine, Israel H., B.S.	*Superior*
Lee, Howard James, B.A.	*Milwaukee*
Lemmer, Kenneth Elery, B.S.	*Spooner*
McBain, Louis Bernard, B.S.	*Madison*
McDonough, Kenneth Bernard, B.A.	*Toledo, Ohio*
Margoles, Maxon Edward, B.S.	*Milwaukee*
Parker, Wilbert Howard, B.S.	*Byron, Minn.*
Parkhill, Edith Muriel, B.A.	*Rochester, Minn.*
Pescor, Michael James, B.A.	*Hibbing, Minn.*
Quisling, Abraham, B.S.	*Madison*
Risteen, Wilford Arless, B.A.	*Chippewa Falls*
Schultz, Isadore, B.S.	*Madison*
Springberg, Joseph Charles, B.A.	*Madison*
Steele, Marcella Reed, B.A.	*Milwaukee*
Stiles, John Alden, B.A.	*Lake Mills*
Tuft, Warren Raiborn, B.S.	*Milwaukee*
Urben, Walter John, B.S.	*Madison*
Watson, Eldon Levings, B.S.	*Madison*
Weissmiller, Lester Lee, B.A.	*Monticello*
Willett, Dean, B.S.	*West Allis*
Williams, David Leslie, B.A.	*Madison*
Wirka, Herman Wenzel, B.A.	*Madison*
Wiswell, Clifford Young, B.S.	*Elkhorn*

THIRD YEAR

Ackerman, Emmett Theodore, B.S.	*Gays Mills*
Bertolaet, Elmer Edgar, B.A.	*Madison*
Booher, John Alexander, B.A.	*Richland Center*
Burdon, Thomas Sheldon, B.S.	*Green Bay*
Casey, James Donovan, B.S.	*Madison*
Cheli, Clement Frederic, B.S.	*Calumet, Mich.*
Clark, Owen Clifford, B.S.	*Madison*

Cole, David Fredrick, B.S.	*Sparta*
Davies, May Aileen, B.A.	*Madison*
Decker, John Joseph, B.S.	*Phillips*
Feldman, Harry, ls	*Madison*
Fitchett, Lawrence L., B.A.	*Janesville*
Frick, Charlton John, B.A.	*Athens*
Grant, Claude Skaggs, B.A.	*Milton*
Granzo, Herbert William, B.S.	*Delavan*
Hansen, Horace John, B.S.	*Glenbeulah*
Hicks, Earl Vincent, B.S.	*Sheboygan*
Hughes, Byron J., B.S.	*Pardeeville*
Hull, Harman Henry, B.A.	*Waupun*
Huth, Edgar W., B.S.	*Milwaukee*
Lange, Eugene William, B.A	*Cedarburg*
Leonard, Thomas Albert, B.S.	*Middletown, Ohio*
Litzen, Floyd Lawrence, B.S.	*Elcho*
Lochen, Everette Lee, B. S.	*Milwaukee*
Lokvam, Leif Henry, B.A.	*Eau Claire*
McCarthy, Frank D., B.S.	*Ponce, Nebr.*
Maloof, George John, B.A.	*Stoughton*
Martin, Ronald Francis, B.A.	*Madison*
Meili, Emmett August, B.A.	*Alma*
Meister, Franklin, B.A.	*Slinger*
Morrison, Russel Caldwell, B.A.	*Madison*
Overgaard Albon William, B.S.	*Cashton*
Owen, John Dale, B.S.	*Phillips*
Pomainville, Leland Charles, B.S.	*Nekoosa*
Rice, Carol Margaret, M.A.	*Madison*
Rosenow, Oscar Ferdinand, B.A.	*Alma*
Sachtjen, Robert Merlin, B.A.	*Madison*
Schmidt, Kenneth Witwen, B.S.	*Avoca*
Schmiedicke, Paul Henry, B.S.	*Manitowoc*
Schmitt, Alton Joseph, B.S.	*Sheboygan*
Schwittay, Addie Matilda, B.A.	*Pound*
Stehr, Arthur Carl, B.S.	*Madison*
Stowe, Harwood L., B.S.	*Kimberly*
Thomas, Norman Goodsel, B.S.	*Cobb*
Treskow, Frank G., B.A.	*Eldora, Iowa*
Wall, Willard Williams, B.A.	*Eau Claire*
Watts, Alice Dorothy, B.A.	*Madison*
Welsch, John Michael, B.A.	*Beaver Dam*

SECOND YEAR

Aaberg, Monrad Edward, B.A. g	*Greenwood*
Ainsworth, Roy Chapman ls	*Madison*
Ansfield, Maurice Joseph ls	*Milwaukee*
Aubin, Francis Wilfred ls	*Madison*
Austin, Rayburn Castle, M.A.	*Bloomington, Ind.*
Bachhuber, Max Otto ls	*Mayville*
Beatty, Samuel Richard ls	*Richland Center*
Beebe, Edmer ls	*Bayfield*
Benn, Vernard August ls	*Medford*
Benson, Robert Gideon ls	*Madison*
Blanchard, Porter Bevan ls	*Madison*
Bolles, Carlton Shepard ls	*De Pere*
Boyer, Helene Nafe ls	*Muskegon, Mich.*
Bradley, James Andre ls	*Madison*
Brillman, Charles ls	*Milwaukee*
Brunkow, Benjamin Henry ls	*Monroe*

Caldwell, Donald Marion ls	*Rio*
Campbell, Paul Edward, B.A.	*Waukesha*
Chalfant, Ruth Jean, B.A. g	*Baltimore, Md.*
Chase, S. Lynn ls	*Madison*
Clark, James John ls	*Janesville*
Cooper, William Alexander, B.A. g	*Wauwatosa*
Coyne, Anna Regina, B.A. g	*Madison*
Desslock, Eli Max ls	*Colby*
Doane, Edwin Addison ls	*Salem, Ore.*
Donlin, William Francis, B.A. g	*Madison*
Donovan, Anthony, B.A.	*Madison*
Dynes, John Burton, M.A. g	*Mount Carroll, Ill.*
Faber, Charles Andrew ls	*Milwaukee*
Faber, John Edwin ls	*Watertown*
Ford, Keith Karl ls	*Racine*
Goldberger, Esther White, B.A. g	*Milwaukee*
Goodnight, Scott Hamilton ls	*Madison*
Gordon, Edgar Stillwell, B.A.	*Madison*
Grossman, Lawrence Leonard ls	*Milwaukee*
Gruenberg, Herbert Matsner ls	*New York, N. Y.*
Hanson, Oscar Henry ls	*Cambridge*
Harrigan, Gerald Bernard ls	*Milwaukee*
Hatleberg, Earl James ls	*Chippewa Falls*
Hauge, Howard LeRoy ls	*Madison*
Herbert, William Thomas ls	*LaCrosse*
Hiller, Samuel Joseph, B.A. g	*Milwaukee*
Hoffman, Jacob Samuel ls	*Milwaukee*
Hunt, Taylor Dwight ls	*Madison*
Jackson, Katherine Eldora ls	*Madison*
Jensen, Frederick George ls	*Menasha*
Kaump, Donald Hunter ls	*Madison*
Kautz, Erich ls	*Merrill*
Kehl, Kenneth Charles, Ph.B.	*Racine*
Kempthorne, Charles Roosevelt ls	*Rewey*
Kindschi, Jean Douglas ls	*Beloit*
Kirmse, Thomas William ls	*Marinette*
Kline, Albert Adolph ls	*Verona*
Koch, Ferdinand Leonard, B.S. g	*Wauwatosa*
Konnak, William Frank ls	*Racine*
Lacke, Clement LeRoy ls	*Lancaster*
LeComte, Charles Frederick, B.A.	*Madison*
Lee, Earl Reuben ls	*Cashton*
Leitner, Moses J. ls	*New York, N. Y.*
Lewis, Charles Noble ls	*Madison*
Liebenberg, Henry Schoepp ls	*Madison*
Lifschutz, Leo Martin ls	*Brooklyn, N. Y.*
Ludwig, Erwin Paul, B.A.	*Berlin*
McCarter, John Carroll ls	*Madison*
McDonough, William Bernard ls	*LaCrosse*
McGovern, Francis Henry ls	*Milwaukee*
Mahoney, Florence Iris, B.S. g	*E. Cleveland, Ohio*
Mannis, Harry, B.S. g	*Stevens Point*
Maresh, Frank, B.S. g	*Carrollville*
Marshall, Wallace Sydney ls	*Appleton*
Martin, Irene Muriel, B.A.	*Milwaukee*
Mittermeyer, Edward Joseph ls	*Boyd*
Natenshon, Adolph Lee, B.A. g	*LaCrosse*
Newcomb, Charles Jones ls	*Waupun*
Olson, William Arthur ls	*Madison*
Paxson, Jane Taylor ls	*Madison*

Peterson, Gordon Waldemar ls	*Neenah*
Pomainville, Harold George ls	*Nekoosa*
Price, Arthur Bardell ls	*Prescott*
Rogazin, Dinah ls	*Madison*
Rogers, Walter C. ls	*Glen Ellyn, Ill.*
Root, Elliott DeWitt, B.A.	*Sparta*
Roueche, Madeleine Alzere, B.A.	*Erie, Pa.*
Sarff, Charles Thompson, B.A.	*Shullsburg*
Schmallenberg, Herman Carl, B.A.	*New London*
Seward, Lynn Jasper ls	*Lake Mills*
Shipiro, Herman Harvey, B.A. g	*Madison*
Sheldon, Charles Hunter ls	*Rochester, Minn.*
Siegel, Lee Edward ls	*Milwaukee*
Simenson, Raymond Stanley ls	*Wautoma*
Skinner, Morgan Ellis, B.A.	*Waupaca*
Springer, Vincent George ls	*Rothschild*
Stauffacher, Charles Gordon, B.A.	*Monroe*
Steele, Eleanor Alice, M.A. g	*Hines, Ill.*
Sykes, Robert Hart ls	*Madison*
Tax, Archie Hanwit ls	*Milwaukee*
Thompson, Willard N. ls	*Mauston*
Waffle, Robert La Grange, B.A.	*Fond du Lac*
Wegman, George Henry ls	*Oshkosh*
Wendt, Floyd August ls	*Madison*
Wien, Irving Abraham ls	*Burlington*

FIRST YEAR

Ansfield, Fred Joseph ls	*Milwaukee*
Arneson, Charles Albert ls	*Fargo, N. Dak.*
Barwaser, Norbert Clement, B.A. g	*Evansvile, Ind.*
Baum, Hugo Carl ls	*New Richmond*
Bergstrom, Leonard Victor ls	*Port Wing*
Bird, Lee Coulthard ls	*Cuba City*
Birnbaum, William Robert ls	*LaCrosse*
Bishop, Harold Francis ls	*Madison*
Blankstein, Samuel S ls	*Milwaukee*
Blum, Benjamin B ls	*Monroe*
Boyd, George Lunt ls	*Kaukauna*
Braun, Herbert Adolph, M.S.	*Milwaukee*
Braze, Alexander ls	*Kenosha*
Brosin, Henry Walter, B.A.	*Milwaukee*
Brott, Everel William ls	*Marinette*
Brown, Harwin Joseph ls	*Madison*
Cameron, Norman, Ph.D.	*Madison*
Cmeyla, Patrick M. ls	*Kewaunee*
Collopy, Paul Joseph ls	*Milwaukee*
Cooper, Garrett Arthur ls	*Watertown*
Cullen, Stuart Chester ls	*Janesville*
Curreri, Anthony Rudolph ls	*Brooklyn, N. Y.*
Davis, Kenneth William ls	*Green Bay*
Dean, Frank Karstens ls	*Madison*
Dobson, Connelly Moore ls	*Madison*
Eising, Lucille Minella B.A.	*Waukesha*
Ells, Elizabeth Sherman, B.A. g	*Milwaukee*
Fisher, Minnie, Ph.B.	*Milwaukee*
Fitch, Richard Homer, M.A. g	*Vermillion, S. Dak.*
Flynn, Francis Austin ls	*Madison*
Foss, Edward Lehmann ls	*Oconomowoc*
Galinsky, Albert Nathan, B.A. g	*Beloit*

Gerner, Morris Isaiah ls	*Milwaukee*
Getz, Horace Raymond, B.S.	*Madison*
Gold, Morris Alan ls	*Milwaukee*
Golden, Abraham Alfred ls	*New York, N. Y.*
Golley, Paul McClusky ls	*Milwaukee*
Gollin, Frank Fred ls	*Milwaukee*
Gullord, Edward George ls	*Greenwood*
Halperin, Phillip Harold ls	*Madison*
Hammerly, Fridolin, M.A.	*Monticello*
Harms, George Melvin ls	*Oshkosh*
Hartridge, Theodore Livingston ls	*Oconomowoc*
Hedback, William Deming ls	*Cumberland*
Heller, Theodore Alexander ls	*Milwaukee*
Herrin, Raymond Clyde, Ph.D. g	*Madison*
Herwick, Robert Port, M.S. g	*Connellsville, Pa.*
Huibregtse, Willard George ls	*Sheboygan*
Hunkel, Victor Henry, Ph.B.	*Milwaukee*
Huth, Melvin Frank ls	*Cochrane*
Joachim, Frederick George ls	*Madison*
Jongewaard, Henry George ls	*Kansas City, Mo.*
Kaufman, Jacob ls	*Brooklyn, N. Y.*
Kernan, Phillip Donald ls	*Madison*
Khoury, Nicholas N. ls	*Madison*
Kierzkowski, Casimir Victor ls	*Cudahy*
Knapp, John Adam, B.S.	*Park Falls*
Kundert, Palmer Rudolph, B.A. g	*Madison*
Laemle, Robert Mayer ls	*Marshfield*
Leff, Charles Irving, B.S.	*Western Springs, Ill.*
Leibenson, Sam ls	*Oshkosh*
Leshin, Arno ls	*Milwaukee*
Leveroos, Edward Herbert ls	*Superior*
Linden, John Michael ls	*Madison*
Lindquist, Norman Lester ls	*South Milwaukee*
Livingston, Max ls	*Livingston*
Ludes, George Michael, B.S. g	*Chicago, Ill.*
McAuliffe, John Theodore, B.S.	*Butte, Mont.*
McCandless, Edward Earl ls	*Antigo*
Mayer, George Frank ls	*Madison*
Metcalf, Cecil John, B.S.	*Dodgeville*
Miller, John Francis ls	*Decatur, Ill.*
Mills, Charles Selby ls	*Madison*
Morgan, John Evan ls	*Spring Green*
Nason, Robert Allen ls	*Ripon*
Nelson, Harold A., B.S. g	*Chicago, Ill.*
Nissenbaum, James ls	*Milwaukee*
Norem, Walter ls	*Bryant*
Oakey, Philip Herbert ls	*Madison*
Olson, Carl Arthur, B.E.	*Superior*
Olson, Carl Porter ls	*Sheboygan*
Parish, George Alvin ls	*Marinette*
Perlman, Frank ls	*Lake Mills*
Perssion, Leon ls	*Milwaukee*
Peterson, Milton Carl ls	*Rockford, Ill.*
Phillips, Robert Thomas ls	*Springfield, Ill.*
Rice, Sidney S. ls	*Milwaukee*
Ries, Michael, Fred ls	*Lomira*
Rietz, Paul Charles B.A.	*Evansville, Ind.*
Rusch, Harold Paul ls	*Madison*
Sarfatty, Isaac Joshua ls	*Milwaukee*
Schroeder, Charles Morrison ls	*Racine*

Schuck, Lester B. ls	*Wauwatosa*
Shabart, Elmer Joseph ls	*Milwaukee*
Shafarman, Eugene Maurice ls	*New York, N. Y.*
Sheehan, William Clifford ls	*Portage*
Sheldon, William Herbert, Ph.D.	*Madison*
Sherwood, Thomas Cecil, M.A. g	*Lexington, Ky.*
Simonson, Lloyd Marlan ls	*Deerfield*
Sinaiko, Edwin Sidney ls	*Madison*
Smith, Albert Randall ls	*Madison*
Stanford, Charles Edward ls	*Madison*
Stevens, Ralph Willard ls	*Madison*
Sudranski, Herbert F. ls	*Greencastle, Ind.*
Sverdlin, Abe Al ls	*Milwaukee*
Sweet, Sam James ls	*Milwaukee*
Swenson, Selmer Gerhard ls	*Ettrick*
Temkin, Mark Marcus ls	*Beaver Dam*
Trapani, Michael Henry ls	*Brooklyn, N. Y.*
Urabec, John Henry ls	*Sheboygan*
Webster, LuVerne John ls	*Antigo*
Wild, Joseph ls	*Milwaukee*
Williamson, Robert Gordon ls	*Mexico City, Mex.*
Wirthwein, Carlton ls	*Milwaukee*
Young, Chien Chieh, B.A. g	*Shantung, China*
Zinder, Reuben ls	*Kenosha*
Zox, Maurice Levi ls	*Des Moines, Iowa*
Zubatsky, David Jacob ls	*Milwaukee*

COLLEGE OF ENGINEERING

SENIORS

Adam, George Herman	CE	*Madison*
Alusick, Joseph	EE	*Racine*
Angrick, Roy	CE	*Milwaukee*
Archie, Gustave Erdman	EE	*Waterloo*
Arnold, James Winthrop	CE	*Madison*
Bailey, Charles Ransom	EE	*Watertown*
Bailey, Frederick Nelson	EE	*Madison*
Bartelt, Allen Donald	EE	*Milwaukee*
Baumgartner, Arnold John	EE	*Boscobel*
Becker, Elmer Frederic	CE	*Milwaukee*
Bell, John Stephen	ChE	*La Grange, Ill.*
Bielefeld, Richard Henry	CE	*Milwaukee*
Bischel, Harry William	EE	*Madison*
Bolliger, Theodore Carl	EE	*Madison*
Borrud, Bertram Merton	CE	*Stoughton*
Breiby, Norman	ME	*Madison*
Brewer, Gordon Willis	ME	*Madison*
Bright, Arthur Burton	CE	*Elkins, W. Va.*
Brown, George Harold	EE	*Portage*
Buchanan, Orrin Reed	EE	*Veroqua*
Buending, Clarence William	CE	*Fort Atkinson*
Canfield, John E.	EE	*Sparta*
Casselman, Ralph Theodore	ChE	*Milwaukee*
Catlin, John Blanchard	ChE	*Appleton*
Christian, Edwin Arthur	EE	*Milwaukee*
Chrysler, Maurice A.	EE	*Madison*
Cole, Ivan Larsen	CE	*Clintonville*
Cox, Marvin Edgerton	CE	*Milwaukee*

Crane, Aloise Berne	ChE	*Adams*
Cromer, Orville Charles	ME	*Madison*
Crowe, Henry Joseph	EE	*Appleton*
Cummins, Frank Joseph	CE	*Lexington, Ky.*
Daniels, Charles John	ME	*Chicago, Ill.*
Davidson, Morris Abraham	CE	*Madison*
Decker, Andrew Hurlbut	EE	*Fond du Lac*
Dewey, William Vernon	ME	*Lake Mills*
Dickinson, Clarence Ralph	EE	*Ashland*
Doescher, Ernest Bernhart	EE	*Platteville*
Douglas, James Eugene	ME	*Milwaukee*
Druml, Frank Ulric	CE	*Milwaukee*
Egger, Glenn Milton	CE	*Marshfield*
Engelke, Robert William	ME	*LaCrosse*
Erikson, Donald Morris	EE	*Janesville*
Every, Edward Malcolm	CE	*Brooklyn*
Ewald, Clarence Francis	CE	*Milwaukee*
Fairweather, Robert William	EE	*Sheboygan*
Fiebrantz, Raymond C.	CE	*Milwaukee*
Fish, Leonard Franklin, Jr.	EE	*Madison*
Fosdal, Fritchof	EE	*Edgerton*
Freyburger, Edwin	ME	*Madison*
Gahnz, Elmer	EE	*Cochrane*
Gassner, Aloysius Frederick	EE	*Mayville*
Geissman, Theodore Albert	ChE	*Milwaukee*
Gerlach, Harold William	ME	*Belmont*
Glaessner, Lawrence Harold	CE	*Milwaukee*
Goeltz, Walter Henry	ME	*Milwaukee*
Graetz, John Bertschy	CE	*Milwaukee*
Grant, Hiram Elvin	EE	*Hartington, Nebr.*
Green, Kenneth Henry	CE	*Middleton*
Grupp, Herbert Carl	CE	*Mason City, Iowa*
Guth, Sylvester Karl	EE	*Whitefish Bay*
Haas, Herbert William	CE	*Kaukauna*
Hagon, Thomas Henry	EE	*Drummond*
Hamel, Vernon Sidney	CE	*Oshkosh*
Hamilton, Leslie Eugene	EE	*Waukesha*
Hanners, Harvey William	EE	*Oakfield*
Heberlein, Edward Garrett	CE	*Milwaukee*
Heebink, Bruce George	ME	*Baldwin*
Held, Chester John	CE	*Milwaukee*
Herro, Alexander C.	ChE	*Oconomowoc*
Hill, Millard Milton	CE	*Minoqua*
Hopkins, Kenneth Earl	ME	*Morrisonville*
Hornig, Frederick Franklin	CE	*Milwaukee*
Hove, Adolph Magnus	EE	*Stoughton*
Howdle, Frederic Earl	EE	*Montfort*
Howes, Edward William	EE	*Oshkosh*
Hulbert, Edward Wade	CE	*Detroit, Mich.*
Hunder, Marcus Benjamin	CE	*Stoddard*
Huth, Alton Malcom	CE	*Cochrane*
Hutton, Robert Wallace	CE	*Port Edwards*
Iwert, Carl Edward	EE	*Milwaukee*
Jackson, Ray	CE	*Parrish*
Jarvis, John Asa	ME	*Janesville*
Jaseph, Lawrence Flower	ME	*Green Bay*
Jauch, John	EE	*Madison*
Jautz, Gilbert Joseph	EE	*Milwaukee*
Jentz, Gilbert Laurence	CE	*Fond du Lac*
Johannsen, Albert Tate	ChE	*Chicago, Ill.*
Johnson, Everett Arthur	EE	*Elkhorn*

Johnson, John Arnold	EE	*Chicago, Ill.*
Johnson, Orland Thayer	EE	*Clintonville*
Johnston, Stewart Louis	EE	*Antigo*
Jones, John Lloyd	EE	*Madison*
Joos, Martin	EE	*Alma Center*
Kahlenberg, James Flynn	ME	*Two Rivers*
Kazim, Mehmed Behaeddin	ME	*Constantinople, Turkey*
Kesting, Edwin Carl	CE	*West Bend*
King, Bernard Frank	CE	*Watertown*
Kinney, Harold John	ChE	*Madison*
Kraut, Ralph John	ME	*Fond du Lac*
Kreutz, Arthur Rudolph	ChE	*LaCrosse*
Kristof, Frank James	ChE	*Racine*
Kubasta, Robert William	ME	*Milwaukee*
Kuehlthau, William Anthony	EE	*Superior*
Lacher, Jack Hammitt	ChE	*La Grange, Ill.*
Landa, Henry C.	EE	*Phillips*
Lenschow, Henry John	CE	*Burlington, Ill.*
Lester, John Aldrich	EE	*Madison*
Lindeman, Walter William	ME	*Milwaukee*
Loewe, Robert	EE	*Milwaukee*
Lovelace, Ray	ChE	*Woodford*
Lucas, Joseph Albert	ME	*Hartford City, Ind.*
McCaffery, Philip	MinE	*Madison*
Machael, Russell Le Roy	EE	*Madison*
Mack, David Joseph	ChE	*La Porte, Ind.*
Magee, Kenneth Laign	CE	*Benton*
Manley, Robert J. T.	EE	*Glendale Ohio*
Matthias, Franklin Thompson	CE	*Curtiss*
Meisenheimer, Edward Albert	EE	*Milwaukee*
Miller, George Washington	EE	*Madison*
Mohr, Harvey William	CE	*Milwaukee*
Morrison, Laurence Wilnor	EE	*Milwaukee*
Mueller, George Wallace	ME	*Milwaukee*
Mueller, John Robert	ME	*Milwaukee*
Mueller, Walter Frederick	EE	*Fountain City*
Nathness, Semore Theodore	EE	*Menomonie*
O'Neill, Arthur Norman	EE	*Nekoosa*
Onsrud, Laurence John	EE	*Stoughton*
Paschen, Clayton Fredric	CE	*Chicago, Ill.*
Pawlowski, John Anton	ME	*Menasha*
Peleske, Leo William	CE	*Superior*
Petersen, Alfred John	ME	*Madison*
Plotz, Rezin Smith	CE	*Omaha, Nebr.*
Poole, James Martin	ChE	*Smithville Flatts, N. Y.*
Popkin, Henry Raymond	ChE	*Superior*
Poss, Robert Joseph	CE	*Antigo*
Proudfoot, William Stephen	CE	*Chicago, Ill.*
Quale, Irving Samuel	ChE	*Madison*
Raccoli, Theodore	CE	*Milwaukee*
Reed, Russell H.	ME	*Dickinson, N. Dak.*
Resan, Stephen Francis	ME	*Racine*
Riebe, Clifford Otto	EE	*Milwaukee*
Roberts, John Roger	CE	*Chicago, Ill.*
Roden, Philip Sharpe	MinE	*Madison*
Roden, Robert Mors	MinE	*Madison*
Roeming, George Carl	CE	*Milwaukee*
Rohn, Robert Alvin	ChE	*Hibbing, Minn.*
Rosenthal, Paul Hartig	ME	*West Allis*
Rumpf, Harry Elbert	ME	*Milton*
Rusch, Erwin Gustav	CE	*Merrill*

Russell, Forrest Orlando	ME	*LaCrosse*
Santroch, Alvin James	EE	*Luxemburg*
Sargent, Frederick John	EE	*Madison*
Schaeffer, Albert Charles	CE	*Belvidere, Ill.*
Schefe, Fred Kenneth	ME	*Green Bay*
Scheiber, Arthur Valentine	ChE	*Chicago, Ill.*
Schmedeman, Carl	MinE	*Madison*
Schmid, George Conrad	EE	*Neenah*
Schmidt, Friedrick Georg	ME	*Bavaria, Germany*
Schroeder, Ralph Reinhold	ME	*Milwaukee*
Schutt, John William	ChE	*Madison*
Schwartz, Everett Burktold	EE	*Milwaukee*
Scott, Morris James	CE	*Madison*
Seielstad, Harold Douglas	EE	*Detroit, Mich.*
Shafer, Allen J.	EE	*Stevens Point*
Simpson, William Dudley	ME	*Necholasville, Ky.*
Skoglund, Raymond Konrad	ChE	*Superior*
Smitz, Louis Z.	ChE	*Chicago, Ill.*
Steinke, Carlyle John	ME	*Waterford*
Stetson, George Leander	ME	*Lake Mills*
Stevens, Roger Williams	CE	*Kenosha*
Sweet, Corlise Merton	ME	*Merrill*
Tacke, Walter Henry	CE	*Milwaukee*
Tannewits, Charles Lawrence	ME	*Madison*
Thern, Philip Henry	CE	*New London*
Tiegs, Frederick Louis	EE	*Milwaukee*
Tiemann, Theodore Donald	MinE	*Madison*
Toft, Douglas O.	EE	*Racine*
Trieloff, Jennings Carl	CE	*Fort Atkinson*
Tuffnell, William Leslie	EE	*Paterson, N. J.*
Turner, Robert Glenn	EE	*Hudson*
Tyler, Edward Melvin	EE	*Milwaukee*
Van Vleet, James Goulden	EE	*Milwaukee*
Velasquez, Bernardo Cock	CE	*New York, N. Y.*
Voigtman, Edward Hugo	ChE	*Marinette*
Waite, Gordon Elliott	CE	*Akron, Ohio*
Walker, Robert Gaarder	ME	*Racine*
Washa, George William	CE	*Milwaukee*
Watson, George Stanley	EE	*Fond du Lac*
Way, William Edward	ME	*Wausau*
Weber, John Carl	EE	*Madison*
Wehmeyer, Arthur Henry	ME	*Elkhart Lake*
Weisshappel, Bruno Joseph Henry	EE	*Madison*
Welch, Halbert Austin	ME	*Oconomowoc*
Westphal, Leslie Carl	EE	*Randolph*
Wickesberg, Alfred Walter	CE	*Appleton*
Wier, George William	CE	*Quitman, Miss.*
Willis, Newton Henry	ME	*Waukesha*
Wilson, Walter Thiell	ME	*Madison*
Wisnieswski, Theodore Francis	ChE	*Milwaukee*
Wohlgemuth, John F.	CE	*Milwaukee*
Wootton, Clarence Jacob	CE	*Merrill*
Yolton, Leslie	CE	*LaCrosse*

JUNIORS, SOPHOMORES, AND FRESHMEN

Adams, Harley James	CE2	*Menasha*
Addison, Elwood Hugh	EE2	*Pelican Lake*
Adgate, George	CE2	*Wheaton, Ill.*
Adler, Orval Carl	CE3	*Milwaukee*
Agor, Pedro Ramirez	ME3	*Milwaukee*

Altpeter, Roger James	ChE3	*Baraboo*
Alyea, Harold Wilson	ME1	*Granton*
Anderson, Arthur H.	ME1	*Madison*
Anderson, Chester Benjamin	MinE1	*Merrill*
Anderson, Delmar LeRoy	CE3	*Milwaukee*
Anderson, Donald Winters	ME1	*Kenosha*
Anderson, George Christian	EE1	*Marinette*
Anderson, Harold Oliver	CE3	*Chicago, Ill.*
Anderson, Lyle Clark	MinE2	*Madison*
Anderson, Orvie Palmer	EE1	*Colfax*
Anderson, Stewart Carl	ME1	*Rockford, Ill.*
Anger, Ernest Grant	EE1	*Wauwatosa*
Angoli, Leonard Edmund	CE2	*Milwaukee*
Annen, Herbert Peter	CE1	*Madison*
Antoni, Earl Valentine	EE3	*Leland, Ill.*
Ashman, George Robert	ME3	*Appleton*
Aune, Robert Edward	EE3	*Rice Lake*
Austria, William Edward	EE1	*Merrill*
Avery, William Brander	ChE1	*Groton, Conn.*
Ayres, Arnold Maurice	ME1	*Albany*
Bachowski, Edmund James	CE1	*Milwaukee*
Baker, John Frederick	CE1	*Wauwatosa*
Baker, Marlin Stephen	ME2	*Janesville*
Bambas, Louis Ludwig	ChE3	*Richmond, Ill.*
Banks, Charles Thomas	ME3	*Jefferson*
Bannach, Leonard Peter	CE1	*Plover*
Bardeen, Thomas	EE1	*Madison*
Barker, William Mortimer	EE2	*Crystal Lake, Ill.*
Barron, Lester Stanley	ME3	*Cottage Grove*
Bartel, August Otto	EE1	*Wautoma*
Bartsch, Lester William	CE3	*Milwaukee*
Bayless, Chalmers Daniel	CE2	*Jacksonville, Ill.*
Bebb, Louise Harriot	CE1	*Chevy Chase, Md.*
Becker, George August	EE2	*Monroe*
Behrens, Harold Julius	CE1	*Grafton*
Bell, Almon LeRoy	EE3	*Racine*
Bell, Gordon Otto	EE3	*Sparta*
Bengs, Donald Charles	CE3	*Milwaukee*
Bennett, William Henry Karl	ME1	*Winnetka, Ill.*
Benson, Ralph LeRoy	EE3	*Toledo, Iowa*
Berg, John, Jr.	EE3	*Pierre, S. Dak.*
Berg, Louis Leighty	CE2	*Pierre, S. Dak.*
Bergfors, Carl Arthur	EE3	*Marinette*
Berry, Clayton D.	ME1	*Racine*
Beverlin, Robert Samuel	ME1	*Toledo, Ohio*
Beyerstedt, Ralph Lauson	ChE1	*Milwaukee*
Bidwell, Lloyd Herbert	ChE3	*Stevens Point*
Bierman, Hymen	MinE2	*Madison*
Biersach, Frank Jerome Charles	CE1	*Milwaukee*
Birbaum, Lester Walter	ME2	*West Allis*
Bishop, Harry Arthur	ChE2	*Bloomington*
Bistline, Clarence Herman	EE3	*Buda, Ill.*
Blakeslee, Jack Robert	EE1	*Willoughby, Ohio*
Blencoe, Shirley G.	EE2	*Alma Center*
Boehme, Theodore Erhardt	ME3	*Chicago, Ill.*
Boller, Kenneth Harold	ME1	*South Byron*
Bone, Winston William	ChE1	*Madison*
Booth, William Gordon, Jr.	ChE1	*Chicago, Ill.*
Bourkland, Walter M. H.	CE3	*Rockford, Ill.*
Bowdish, Lawrence Eugene	ME1	*Walworth*
Bowen, George William	CE1	*Madison*

Boyd, Paul James	CE1	*Nelson*
Brandhofer, Alfred Louis	ChE2	*Milwaukee*
Brandt, Earl Raymond	EE1	*Madison*
Brandt, Edward Charles	EE3	*Wausau*
Brennan, Leslie Bernard	ChE1	*Manitowoc*
Brey, Edwin Paul	ME1	*Manitowoc*
Brikowski, John, Jr	ME1	*Bloomville*
Brindley, Elbert James	EE1	*Richland Center*
Brophy, James Arthur	ChE1	*Madison*
Brotz, Roman	ME3	*Kohler*
Brown, Archie Waite	EE2	*Tampico, Ill.*
Brown, Maynard Oliver	EE3	*Fort Atkinson*
Brueggeman, Leslie Thomas	EE2	*Milwaukee*
Brumm, Vern James	ChE1	*Middleton*
Bryan, Wayne Garfoot	CE1	*Portage*
Buehler, Robert John	CE2	*Baraboo*
Buenzli, Philip Benedict	EE2	*Madison*
Bullen, Clark V.	EE3	*Waukesha*
Burke, Martin Nicholas, Jr.	ME3	*Green Bay*
Burnham, George Challoner	EE2	*Milwaukee*
Burns, Morris John	EE1	*Beloit*
Burt, Raymond Frank	CE1	*Rockford, Ill.*
Busse, Karl Jacob	ME1	*Green Lake*
Butchar, Frank Joseph	ME1	*Sheboygan*
Byanskas, Edward Louis	CE2	*Chicago, Ill.*
Calkins, Robert Spalding	CE3	*Chicago, Ill.*
Callen, Philip John	ME2	*Milwaukee*
Campbell, George Louis	EE2	*Racine*
Canepa, Theodore Toto	EE2	*Madison*
Capicik, John	EE1	*Racine*
Carlin, George Adam	CE1	*Des Moines, Iowa*
Carlin, Harry Julius	CE3	*Marinette*
Carlin, Thomas James	CE1	*Milwaukee*
Caviezel, George Henry	CE3	*Pontiac, Ill.*
Chamberlain, Donald William	CE2	*Green Bay*
Chapman, Dalton Byron	ME2	*Berlin*
Chermak, Alvin Ray	CE3	*Manitowoc*
Christenson, Curtis Steele	EE2	*Rubicon*
Claflin, Norman E.	CE1	*Brooklyn*
Clark, Edmund Lennon	EE2	*Janesville*
Clausen, Christian Edward	ME1	*Beloit*
Clawson, William Burrell	ME1	*Redgranite*
Cleven, Paul Olaf	EE3	*Stoughton*
Cline, Jerome Fredrick	ME1	*Madison*
Cnare, Robert Francis	CE1	*Madison*
Coates, Lloyd Verne	CE1	*Cuba City*
Cobine, James Dillon	EE3	*Madison*
Coe, Donald Omer	CE3	*Shelby, Ohio*
Coker, Theodore Roosevelt	ME3	*Beloit*
Colpitts, Arnold Laurence	EE2	*Radisson*
Connelley, Anthony T.	EE2	*Dillon, Mont.*
Conway, John Thomas	ME1	*Madison*
Cook, Victor Payzant	EE2	*Binghamton, N. Y.*
Coolbaugh, Richard Waldon	EE2	*Madison*
Coon, James Harlan	ChE2	*Ladysmith*
Cooper, Robert George	CE1	*Madison*
Coplien, Ivan Conrad	ME1	*Monroe*
Corell, George Waldon	ME3	*West Chicago, Ill.*
Corp, Paul Metzger	ME1	*Madison*
Cortright, Harry Miller	CE2	*Sandwich, Ill.*
Couch, Edmund, Jr.	CE2	*Denver, Colo.*

Cowie, Alexander	ME3	*Molance, Scotland*
Crabb, Robert Charles	EE2	*Racine*
Cramer, Myron Percel	CE1	*Madison*
Crawford, Byron McKee	EE1	*Chilton*
Crego, John Isaac	EE1	*Saxon*
Creutz, John Raymond	EE3	*Janesville*
Cross, Richard Eugene	EE1	*Detroit, Mich.*
Curry, Orville William	EE1	*Boone, Iowa*
Curtis, Robert Marshall	EE3	*Milwaukee*
Curtius, Robert Raymond	EE3	*Camp Douglas*
Czerwonky, Ralph Arthur	ME3	*Milwaukee*
Dack, Mitchel Lester	EE3	*Bagley*
Dadian, Lazarus Harry	EE3	*Racine*
Darbo, Howard Helseth	ChE2	*Wauwatosa*
Dasney, Charles Anthony	EE2	*Corning, N. Y.*
Davis, Maurice Eugene	CE2	*Chicago, Ill.*
Day, William Theodore	CE3	*Pocahontas, Iowa*
De Guire, Merlin Louis	ChE1	*Racine*
Deiley, Leslie Eugene	ME2	*Oak Park, Ill.*
DeLap, Jack Hiram	ME3	*Maywood, Ill.*
Den Dooven, Edward Eugene	ChE2	*Green Bay*
Derby, George William	EE1	*Franksville*
Dettner, Delmar David	CE1	*Madison*
Dettwiler, Alvin Glen	ChF1	*Verona*
Dever, Harry Glem	CE2	*Beloit*
Dickie, John Adams	ME3	*North Freedom*
Dittmer, Bertin Julius	ME3	*Appleton*
Dobratz, Oscar Walter	CE1	*Merrimac*
Dodge, Eldon Raymond	CE2	*Antigo*
Dormer, George Garland	ChE3	*Buhl, Minn.*
Dorner, Frederick Henry, Jr.	ME2	*Milwaukee*
Dougherty, Grant Howard	ChE1	*Evansville*
Dow, James Edgett	ME3	*Milwaukee*
Dowell, John Thatcher	ME2	*Riverside, Ill.*
Drew, Sidney Dale	CE3	*Milwaukee*
Dries, Jerome Francis	ME3	*Random Lake*
Drindak, Joseph Thomas	CE2	*Ashland*
Drow, John Theodore	CE3	*Tomah*
Dubbs, Carbon Chattey	ChE1	*Wilmette, Ill.*
Dunphy, Donald Martin se	EE3	*Sun Prairie*
Durkee, Robert Meade	CE1	*Madison*
Dzwons, George	EE2	*Rosholt*
Earl, Charles R.	ChE2	*Owen*
Eastman, LeRoy Irons	CE3	*Lancaster*
Eberhardt, Edward Albert	EE1	*Verona*
Egger, Oscar Otto	CE2	*Marshfield*
Eggert, Marvin William	EE2	*Slinger*
Eimermann, Lloyd	ME1	*Milwaukee*
Eisaman, Jack Howard	MinE1	*Saltsburg, Pa.*
Ellis, Pierce George	ChE3	*Milwaukee*
Engel, Wilbur William	EE1	*Fond du Lac*
Engholdt, Richard Kuether	EE1	*Antigo*
Epple, Arnet Berthold	ME1	*Marinette*
Erichsen, Frank Peter	CE3	*Milwaukee*
Erickson, Hugo	EE3	*Chicago, Ill.*
Erickson, Paul Irwin	EE2	*Bayfield*
Esser, Andrew Benedict	EE1	*Marshfield*
Essock, Jack	ChE3	*Whitewater*
Euclide, Francis Joseph	CE3	*Green Bay*
Evans, George Aspinwall	ME1	*Baraboo*
Evans, Sidley Oliver	EE2	*Milwaukee*

Falk, Harold Frank	ME2	*Milwaukee*
Falk, Walter E.	EE2	*Racine*
Federico, Gildo John	CE2	*Hurley*
Ferber, Herbert James	CE2	*Chicago, Ill.*
Ferguson, Perry Raine	CE2	*Fairview, Pa.*
Ferguson, Richard Earl	ChE1	*Madison*
Ferris, William Harold	EE3	*Madison*
Fey, Adolph Gustav, Jr.	ChE3	*Ableman*
Finch, Leonard Emil	ME3	*West Bend*
Flick, Burke Fedelis	EE2	*Kenosha*
Flory, Karsten Cobb	ME1	*Wauwatosa*
Flugum, Erling Norman	EE3	*Stoughton*
Forbush, Floyd Sanford	EE1	*Beloit*
Fosnot, Richard Harvey	ChE1	*Madison*
Fosshage, Ernest	EE2	*Mount Horbe*
Foster, Robert McKinley	EE1	*Cornell*
Frank, Evermond Reynold	EE1	*Two Rivers*
Franzen, Hollis Fred	EE3	*Delevan*
Frase, Paul Ernst	ME1	*Chicago, Ill.*
Fredendall, Gordon Lyle	EE3	*Janesville*
Fredrickson, Ralph Samuel	EE2	*Honey Creek*
Frey, Frederick August	EE2	*Wauwatosa*
Friauf, Gordon Frederick	CE1	*West Allis*
Fritsche, John Wallace	CE1	*Milwaukee*
Frost, Donald Craig	EE3	*Rockford, Ill.*
Fuhr, Lawrence	CE3	*Milwaukee*
Gafke, Walter Van	CE3	*Madison*
Galineau, Howard Emerson	CE3	*Milwaukee*
Galineau, Ray Emery	CE2	*Milwaukee*
Gallenberger, Bernard Francis	EE1	*Green Bay*
Gallus, Harold Louis	ME1	*Merrimac*
Gannon, Jerome Michael	EE1	*Beloit*
Gardisky, Charles Martin	EE1	*Antigo*
Garland, John Daniel	EE2	*Sturgeon Bay*
Garmager, Henry Curt	ME1	*Beloit*
Garvy, Vincent Francis	EE1	*Chicago, Ill.*
Gaston, German Lacson	ME3	*San Juan Rizal, P. I.*
Gibson, Glen Willard	ME3	*Janesville*
Giese, Harlan LeRoy	EE2	*Portage*
Gilbertson, Raymond	EE1	*Taylor*
Gillett, John Bryant	MinE1	*Madison*
Gillman, Abraham Samuel	ChE1	*Racine*
Gilpatrick, Jules	EE3	*Milwaukee*
Ginsberg, Hyman	CE1	*Brooklyn, N. Y.*
Glanzer, Franz	EE3	*Oshkosh*
Glomstad, James Constanton	EE2	*Sturgeon Bay*
Goehrig, Carl Joseph	ME1	*Milwaukee*
Goetsch, Roland Henry	ME1	*Wauwatosa*
Goodrich, Richard James	ME1	*Madison*
Gorder, Zenno August	CE1	*Waterloo*
Grams, Franz Otto	EE2	*Genoa, Ill.*
Grange, Raymond Andrew	ChE1	*Darlington*
Granger, Robert Richards	MinE	*Milwaukee*
Graves, Donald Elliot	EE3	*Spencer*
Graves, Roswell Horsfall	ChE1	*Prairie du Chien*
Green, Joseph Gregory	ME2	*Beloit*
Greiling, William Lloyd	ME1	*Green Bay*
Gremmer, Henry	CE2	*New Holstein*
Gresenz, Elmer Richard	ChE1	*Appleton*
Greunke, Edgar Albert	ME2	*Granton*
Griswold, Clinton John	CE2	*West Allis*

Griswold, Robert Nelson	ChE2	*Mazomanie*
Gross, Harold Lee	EE3	*Waukesha*
Groth, Alvin Lorenzo	ME3	*Verona*
Gruehn, Harold Lee	CE2	*Milwaukee*
Grundman, Willard Edwin	MinE1	*Milwaukee*
Guettler, Blaise Anthony	ME2	*Chicago, Ill.*
Gunderson, Roy Reginal	CE3	*Minocqua*
Gustafson, Earl Milton	EE1	*Marinette*
Guy, Benjamin Frederick	EE2	*Milwaukee*
Haaker, Raymond Otto	EE1	*Neenah*
Haase, Henry Milton	ME2	*Beloit*
Hagestad, Herman Tharson	CE3	*River Falls*
Hagestad, Kenneth Homer	EE3	*Ettrick*
Haight, Wayland Z.	ChE2	*Milwaukee*
Halamka, George Louis	EE1	*Racine*
Hall, George Alexander, Jr.	EE2	*Wauwatosa*
Hall, George McArthur	CE2	*Centerville, Iowa*
Halvorsrud, Konrad Mads	EE1	*Beloit*
Hamacher, John Martin	ME2	*Madison*
Hammer, Ferdinand	ME3	*Milwaukee*
Hanchett, John Creighton, Jr.	ME2	*Janesville*
Hand, Carl Willard	CE2	*Racine*
Hansen, Ralph Leigh	ChE2	*Oconto*
Hanson, Chris	ME1	*Richland Center*
Hanson, Edwin Marlow	EE3	*Chetek*
Hanson, Frederick Raymond	ME2	*Omaha, Nebr.*
Hanson, James Christian	ME1	*Brooklyn*
Hanson, Peter Simpson	ChE1	*Kaukauna*
Hantke, Richard Watson	ChE3	*Milwaukee*
Hardell, Clarence William	ChE2	*Rhinelander*
Hardt, Henry John	CE2	*Maywood, Ill.*
Harley, William James	ME1	*Milwaukee*
Hartman, Fred Emil	EE3	*Milwaukee*
Harwood, James Harold	CE2	*Zion, Ill.*
Hasslinger, William Craig	ME3	*Hartland*
Hatleback, Chester Ellsworth	CE1	*Cambridge*
Haugen, Arthur Oscar	EE1	*Madison*
Haukedahl, Orel Elden	EE2	*Madison*
Haverberg, Iver Edward	ME2	*Finley*
Haviland, Edward Frank	EE3	*Bronx, New York*
Heigle, Cyrus Henry	ME2	*Green Bay*
Heinike, Gustave Adolph	CE1	*Kilbourn*
Helg, John F.	ChE2	*Geneseo, Ill.*
Heller, Harold Adolph	ME1	*Lake Mills*
Hemmingway, Hugh Leroy	EE3	*Janesville*
Henrickson, Ralph	CE3	*Marengo, Ill.*
Hermansen, Evald	CE3	*Madison*
Herness, Henrik Raymond	CE2	*Whitehall*
Hetts, John Michael	ME2	*Colby*
Hewitt, John Wesley	ME1	*Neenah*
Heyda, Charles William	CE	*Manitowoc*
Hicke, Gerald Ervin	ME2	*La Crosse*
Hicks, Stratton Elson	ME2	*Madison*
Hicks, William Ross	CE3	*Clifton Heights, Pa.*
Hielsberg, Alfred William	CE3	*Oshkosh*
Hilgenberg, Jack August	MinE2	*Kaukauna*
Hill, Lewis Frederick	ME1	*Yonkers, N. Y.*
Hinkel, Duane William	ME2	*Madison*
Hnath, Peter Paul	ME1	*Ashland*
Hoaglin, Edward John	ME2	*Wild Rose*
Hodge, Lawrence Kenneth	ME1	*Beloit*

Hoebel, Edward Everett	CE2	*Madison*
Hogan, Brayton William	ME3	*Clinton*
Holcombe, Daniel Harrison	EE1	*Beloit*
Holland, William T.	ME1	*Oakfield*
Holman, Ernest Howard	ChE1	*Washburn*
Holmquist, Roy Haskel	EE1	*Superior*
Holstein, Thomas Jenewein	CE2	*Madison*
Horder, John Stephan	CE1	*Milwaukee*
Horwitz, David Robert	ME1	*Sheboygan*
Horwitz, Harvey Hyman	EE2	*Milwaukee*
Hovey, John Vernon	CE2	*Madison*
Hovey, William Boyd	CE2	*Madison*
Hoyle, Robert Luke	ME2	*Lombard, Ill.*
Hubbard, Albert Onas	CE1	*Dalton, Mass.*
Hubbard, Frank Hobson, Jr.	EE1	*Wauwatosa*
Huber, Milon George	ME3	*Bangor*
Hulsberg, Herbert Alfred	EE2	*La Grange, Ill.*
Hulten, Donald	MinE3	*Marinette*
Hunsader, Yves	EE1	*Algoma*
Huntowski, John Joseph	ChE1	*Green Bay*
Hutcheson, William Clinton	CE2	*St. Louis, Mo.*
Huzarski, Richard George	CE1	*Warsaw, Poland*
Hyde, Wesley Harry	EE2	*Milwaukee*
Icke, George Wyman	CE1	*Madison*
Ilker, Elmer Charles	EE3	*Milwaukee*
Innes, John Langseth	CE3	*Kansas City, Mo.*
Itschner, Kenneth Craig	ME1	*Chicago, Ill.*
Jackola, Walter	EE2	*Commonwealth*
Jackson, Robert Charles	EE2	*Seymour*
Jacobson, Harold Ulrich	EE1	*Milwaukee*
Jaeger, Erwin Fred	EE3	*Antigo*
Jagodinski, Leo Charles	CE2	*Manitowoc*
James, Lovell Gilbert	ME1	*Milwaukee*
Janishewski, Charles Nicholas	ME3	*Milwaukee*
Janson, Earl Conrad	EE1	*Chicago, Ill.*
Jaskaniec, Eugene Wiegt	CE2	*Onalaska*
Jasper, Emory Charles	ChE2	*Madison*
Jay, Kenneth Reeves	EE3	*Ladysmith*
Jenks, Robert Jeremiah	CE2	*Beloit*
Jenny, John Paul	ME1	*Monroe*
Jensen, Adolph Peter	EE1	*Racine*
John, Herbert Augustus	ME3	*Milwaukee*
Johns, David Carter	MinE1	*Dodgeville*
Johnson, Alfred Nelson	EE2	*Madison*
Johnson, Alfred Norman	ME1	*Stanley*
Johnson, Carl M.	ChE1	*Portage*
Johnson, Edway Ceil	CE1	*Packwaukee*
Johnson, Forrest Hayden	MinE1	*Dayton, Ohio*
Johnson, Harley Norman	EE1	*Milwaukee*
Johnson, Richard Hilmer	ME2	*Milwaukee*
Johnson, Stanley Edward	CE2	*Ashland*
Jonassen, Aake	ME2	*Oslo, Norway*
Jones, Gordon Harvey	ME3	*Oshkosh*
Jordan, Clarence	EE3	*Barneveld*
Judson, Philip MacGregor	ME3	*Santiago, Chile, S. A.*
Justl, Rudopf Herman	ME1	*Fond du Lac*
Kaap, Lawrence Edward	ME1	*Milwaukee*
Kachel, William Frederick	CE1	*Milwaukee*
Kaiser, Elmer Robert	ME1	*Kiel*
Kalinski, Anton Adam	CE1	*Sheboygan Falls*
Kamin, Clifford John	ChE1	*Chicago, Ill.*

Karsten, Walter Fred Rich	ME3	*Milwaukee*
Kean, Walter Frederic	EE2	*New York, N. Y.*
Kehl, Ralph Henry	ME2	*Racine*
Keipe, Lewis Edward	EE1	*Green Lake*
Kellogg, Gifford	CE1	*Yonkers, N. Y.*
Kemp, Frank Fred	CE3	*Milwaukee*
Kemp, John Garison	ME1	*St. Louis, Mo.*
Keniston, Winthrop Ashley	ChE1	*Madison*
Kenney, Roger James	ME3	*Waunakee*
Kernjack, Anthony Alyious	ChE1	*Milwaukee*
Kerns, Francis Edwin	EE3	*Cary Station, Ill.*
Kessler, Arthur Lincoln	CE1	*Columbia City, Ind.*
Kester, Francis Edward	EE3	*Greene, Ia.*
Kettner, Robert Otto	ChE1	*South Milwaukee*
Kieweg, Burton Reynold	MinE3	*Kewaunee*
Killian, Peter George	EE2	*Kaukauna*
Kirby, Melvin Himes	EE3	*Ashland*
Kirk, Harry Stanley	EE1	*Red Bank N. J.*
Kjarsgaard, Alfred John	EE1	*LaCrosse*
Klaesson, Philip Severin	CE1	*Stoughton*
Klingler, Joseph Edward	MinE1	*Elgin Ill.*
Knaak, Laurence Blaine	EE3	*Fall River*
Knake, Roger Max	ChE1	*Washburn*
Knechtges, Edmund John	MinE2	*Madison*
Knechtges, Richard George	CE1	*Madison*
Kneevers, Victor August	CE1	*Sheboygan*
Knoll, Carl Alvin	CE3	*Milwaukee*
Knutson, Albert Evan	EE2	*Madison*
Koch, Wilbur Edward	ME1	*Middleton*
Koenig, Clarence Herman	CE2	*Milwaukee*
Koepcke, Kenneth Adalbert	CE1	*Madison*
Koerwitz, Herman Henry	ME1	*Neenah*
Koester, Wilbur Fredrick	ME3	*Milwaukee*
Kohler, Gordon Emery	CE1	*Chicago, Ill.*
Kolb, Elmer Robert	EE2	*Fort Dodge, Ia.*
Kolka, Karl Rheinholt	EE2	*Irma*
Konowalski, Stanley Joseph	EE3	*Green Bay*
Kosak, Leo Frank	CE3	*Milwaukee*
Kostal, George Jerry	CE1	*Milwaukee*
Krainer, Edgar Henry	EE1	*Milwaukee*
Kranhold, Harvey Fred	ChE1	*Appleton*
Krasin, Lambert Dick	CE1	*Marshfield*
Krasin, Lawrence Lester	CE2	*Marshfield*
Kraus, William John	CE1	*Madison*
Krieger, George Richard	ChE2	*Wisconsin Rapids*
Kroening, George Clarence	CE1	*Milwaukee*
Kruckenburg, Perry Lester	ME1	*Fort Atkinson*
Kruger, Donald John	EE1	*West Salem*
Kruger, Kenneth Walter	CE2	*Madison*
Kruke, Eugene Robert	EE3	*Port Washington*
Krycho, John Thomas	EE2	*Madison*
Kucznski, Paul T.	EE3	*South Milwaukee*
Kuehlman, Norman Valentine	ME1	*Sheboygan*
Kuehlthau, John Louis	EE2	*West Bend*
Kuhlman, Myron George	ChE1	*Wausau*
Kuhlman, Ralph Wilson	CE1	*Madison*
Kundert, Karl Hoehn	MinE2	*Madison*
Kurtz, Carl Weber	EE1	*Buffalo N. Y.*
Kurtz, William Charles	EE1	*Neenah*
Kwapil, Elmer George	EE3	*Columbus*
La Chapelle Kermit Austin	CE1	*Green Bay*

Ladwig Frank Christian	CE3	*Wauwatosa*
LaGue, Allen Joseph	MinE1	*Milwaukee*
Lambeck, Thomas Joseph	ME1	*Milwaukee*
Langhammer, Rudolph	EE1	*Bayfield*
Langlykke, Asger Funder	ChE3	*Chicago, Ill.*
Larkin, Gerald Ambrose	EE2	*LaCrosse*
Larsen, Henry James	CE2	*Racine*
Larson, Joseph Henry	EE3	*Roberts*
Lathrop, William Gordon	ME2	*Beloit*
Laurence, Adolphus Alexander	ChE2	*Delavan*
Lautz, Harold Ludwig	ChE1	*LaCrosse*
Lavold, Lawrence Burdette	ChE3	*LaCrosse*
Lawrie, John Fairlie	CE1	*Redgranite*
Lawson, Albert Adolf	CE1	*Frederic*
Lea, Leib William	CE2	*Chippewa Falls*
Lea, William	ChE3	*Toledo, Ohio*
Leifer, Lorenz Albert	EE1	*Plymouth*
Leininger, William George	ME3	*Wayside*
Lembcke, Clarence Herman	EE2	*Appleton*
Levin, Sidney Louis	CE1	*Madison*
Lewis, George Alexander	EE1	*Abbotsford*
Ley, Ralph Michael	CE1	*Marshfield*
Lhotak, Rudolph Ferdinand	ME3	*Beloit*
Lidicker, Harold Clyde	CE3	*Milwaukee*
Liedeka, Harry Julius	ME1	*Green Bay*
Lighty, Russell Dean	EE3	*Madison*
Littleton, Charles Wieland	ME2	*Madison*
Locher, Fred	CE2	*Wisconsin Rapids*
Loeper, Ralph Burton	ME1	*Racine*
Lofgren, Glen Kermit	ME3	*Cameron*
Lorenz, George Henry	ME3	*Omaha, Nebr.*
Love, Addison Newton, Jr.	EE1	*Milwaukee*
Lowe, Robert Arthur	ME3	*Cleveland, Ohio*
Luchterhand, Elmer Gustave	ChE2	*Unity*
Ludowise Benjamin Frank	CE2	*Cadott*
Lunas, Adam John	ME1	*Beloit*
Lund, Glenn Vernon	EE3	*River Falls*
Lyneis, Claude Albin, Jr.	CE2	*Fond du Lac*
Lyons, William Lewis	EE3	*Appleton*
MacBriar, Joseph Flather	ME1	*Oconomowoc*
McBride, Robert Patrick	ME1	*Portage*
McCreary, Raymond Arthur	ME3	*Beloit*
McDonald, Walter Edward	CE3	*Madison*
McEachron, Edgar Desnoyers	ME3	*Wausau*
McGinnis, Charles Allen	ChE1	*Whitewater*
MacGregor, Wallace Forrest	ME2	*Racine*
McQuire, Francis Desmond	CE2	*Madison*
McKee, Frank Jospeh	ChE3	*Madison*
McKivett, Kenneth George	ME3	*Racine*
McKnight, Harold Ellis	CE1	*South Wayne*
McLeod, Gordon Morrison	EE3	*Crany, N. Dak.*
Mackie, Frederick David	EE2	*Ashland*
Magnuson, Merrill Carl	CE1	*Rockford, Ill.*
Malec, Walter Emil	CE2	*Madison*
Maltpress, Richard Robert	ME2	*Edgerton*
Manley, John Talbot	ChE2	*Glendale, Ohio*
Manthe, Russell Herman	CE2	*Madison*
Mars, Charles Victor	MinE3	*Marinette*
Marshall, Harold Oren	ChE2	*East Troy*
Marshall, Henry	EE2	*Madison*
Martin, Adolph Gustaf	EE1	*Boscobel*

Martin, Harold Launer	CE3	*Wauwatosa*
Martin, Herbert Quimby	ChE2	*Watertown*
Martin, William James	EE1	*Milwaukee*
Marty, Robert William	EE1	*Neenah*
Mathews, Harry Ferdinand	EE2	*Butternut*
Matsen, Morris	ME3	*Oregon*
Matsen, Robert	CE3	*Oregon*
Matteson, Richard Julian	ME2	*Chicago, Ill.*
Maurer, James Arthur	ChE1	*Milwaukee*
May, Arthur Emil	ME1	*Green Bay*
Mayer, A. Edward	EE3	*Kaukauna*
Medler, Samuel W.	CE3	*Milwaukee*
Meinhardt, John William	ME1	*Milwaukee*
Mennerich, Fred August	ChE3	*LaCrosse*
Merz, Robert Christian	CE1	*Milwaukee*
Metcalf, A. Rounds	ME2	*Amherst*
Metz, Roman August	CE1	*Madison*
Meyer, Arnold Fiebing	ME3	*Wauwatosa*
Meyer, Leo Wilhelm	ME2	*Fond du Lac*
Meyer, Walter George	CE1	*Hartford*
Meythaler, Harold Eugene	CE1	*Monroe*
Michelson, Clifford Ulrick	EE1	*West Salem*
Mikula, Jack Henry	CE1	*Milwaukee*
Milbrandt, Wilson	CE3	*Monticello*
Miller, Donald Jay	ME3	*Stanley*
Miller, Edward Peter	ChE2	*Green Bay*
Miller, Frank, Jr.	ChE1	*Hinsdale, Ill.*
Miller, John A.	CE3	*Oneonta, N. Y.*
Miller, Robert Charles	EE2	*Madison*
Miller, Robert Lawrence	CE2	*Milwaukee*
Miller, Wesley Albert	ME3	*Oak Park, Ill.*
Mohns, Verne Edward	EE3	*Elroy*
Mohr, John Smith	ChE2	*Wisconsin Rapids*
Monaghan, John Edward	CE2	*Omaha, Nebr.*
Montgomery, Andrew Proudfit	ChE1	*Madison*
Moore, Arthur	ME1	*Medford*
Moore, Haden Matthew	ME1	*Sterling, Ill.*
Moore, John Raymond	CE2	*Cassville*
Moore, LeRoy E.	CE2	*Shullsburg*
Moore, Mary Rosalind	EE2	*Maplewood, N. J.*
Moran, Francis James	EE1	*Chicago, Ill.*
Moran, John William	CE1	*Ellsworth*
Morgan, Philip Fairbanks	ChE1	*Brooklyn*
Morig, Everett Boyd	EE1	*Fort Atkinson*
Mortensen, Martin Ferdinand	ME3	*South Milwaukee*
Moyle, Thomas Russell	ME2	*Big Bend*
Mueller, Albert Peter	ChEAdSpl	*Milwaukee*
Mueller, Charles Herman	ChE1	*Lake Mills*
Mueller, George Anthony	ME1	*Milwaukee*
Muench, George Frank	EE1	*Algoma*
Muntinga, Walter Harold	ME1	*Racine*
Murphy, Frank Albert	ChE3	*Appleton*
Murphy, Frank Morrill, Jr.	ChE1	*Madison*
Murray, LeRoy Carl	ChE1	*Madison*
Murray, William Henry	EE1	*Sugar Bush*
Musolf, Claude Edward	EE1	*Fond du Lac*
Myse, Daryal Arnold	ChE3	*Appleton*
Nelson, Dale Harold	EE3	*Milwaukee*
Nelson, Earl Barney	EE1	*Beloit*
Nelson, Paul	ChE3	*Cuba City*
Nerad, Raymond Anthony	ME2	*Racine*

Neuzil, Erwin Frank	CE2	*Chicago, Ill.*
Neville, Byrne Andrew	EE1	*Colby*
Newell, Orson Merritt	ChE2	*Baraboo*
Newing, Charles Wesley	CE3	*Milwaukee*
Newlin, Charles Henry	CE3	*Madison*
Nichols, Donald Burnette	EE2	*Walworth*
Nicholson, William Calvin	ME1	*Milwaukee*
Nickel, Maurice Bernard	ME3	*Tomahawk*
Nickles, Robert Jerome	EE3	*Madison*
Nielsen, Oscar Leonard	EE3	*Sparta*
Noack, Russell William	EE3	*Shiocton*
Norman, Lorne Albert	ME1	*Bloomer*
Normington, Walter Joshua	ME1	*Stevens Point*
Novak, Frank Edward	EE2	*New Rome*
Novotny, Charles Hudson	ME2	*Madison*
Nowotny, Glenn Joseph	ChE2	*Antigo*
Oakey, Robert Henry	ME2	*Madison*
Ocken, John Le Roy	ChE1	*Sterling, Ill.*
O'Dea, Thomas Henry	CE3	*Madison*
Ohnhaus, Gordon Edgar	ME2	*Madison*
Oksanen, Warner Albert	EE3	*Superior*
Olbrich, Emil Jacob	ChE1	*Harvard, Ill.*
Olsen, John Haaland	MEAdSpl	*Milwaukee*
Ostrem, Roger	ME3	*Madison*
Ottensman, Clarence Wilfred	CE1	*Sheboygan*
Owczarski, Peter	ChE1	*Pulaski*
Paddock, Robert H.	CE2	*Calumet, Mich.*
Pagel, Leo Emil	ChE2	*Wausau*
Palermo, Frank John	EE1	*Racine*
Palm, Bethal Edward	EE1	*Williams Bay*
Palmer, Vernon John	CE1	*Antigo*
Panzer, Harry R.	CE1	*Madison*
Parker, Ralph Semple	EE3	*Mount Vernon, Ill.*
Parrott, Alton Benjamin	EE1	*East Falls Church, Va.*
Parsons, Harvey Critchell	CE1	*Chicago, Ill.*
Parsons, Oliver Laughlin	ME3	*Wauwatosa*
Parsons, William Hagen	EE1	*Sparta*
Parvin, Cecil Clayton	CE2	*Waupun*
Paterick, Henry Raymond	MinE2	*Vesper*
Patterson, Ralph Hamer	ChE2	*Wausau*
Paulsen, Milton Rudolph	ME1	*New Holstein*
Paulus, Henry Goedjen	ME1	*Manitowoc*
Peck, George Covell	EE1	*Berlin*
Peck, Henry Edward	ME1	*Madison*
Pedersen, Arthur Elmer	ME1	*Washburn*
Pedersen, Clarence E.	EE3	*Milwaukee*
Pedley, Floyd Harvey	EE2	*Kenosha*
Penn, William	ME3	*Monroe*
Pepper, Fredrick William	ME1	*Madison*
Perona, John B.	EE1	*Kenosha*
Perry, Theodore Hart	CE3	*Wilmette, Ill.*
Persen, Edward Andreas	CE1	*Manitowoc*
Pertzborn, Stanley John	CE1	*Madison*
Peters, Karl	ME3	*Milwaukee*
Peterson, Chester	ChE3	*Hibbing, Minn.*
Peterson, Daniel Wilbur	CHE1	*LaPorte, Ind.*
Peterson, Eugene John	CE3	*Milwaukee*
Peterson, Merton Wilbur	ME3	*Whitewater*
Pfankuch, Leo August	ME1	*Grafton*
Philippi, John	ME1	*Sheboygan*
Piper, Jack Allan	MinE3	*New Holstein*

Pitman, Donald William	CE1	*Madison*
Pivovarnick, John L.	CE1	*Streator, Ill.*
Platz, John Francis, Jr.	CE1	*Columbus*
Plost, Michael	ChE2	*Superior*
Poehlman, George Nicholas	ME3	*Milwaukee*
Pollack, Charles Frederick	CE1	*Madison*
Prescott, Robert Elwyn	ME1	*Freeport, Ill.*
Pruett, Grover C.	EE2	*Madison*
Quandt, Donald Albert	CE1	*Hartford*
Quinn, Charles Joseph	ME3	*Madison*
Quinn, James Nicholas	ME1	*Madison*
Racheff, Theodore Nicolas	EE2	*Chicago, Ill.*
Radtke, Elmer Harold	ME1	*Neenah*
Radtke, Herbert Arno	ME1	*Sheboygan*
Radway, Lawrie Clinton	ME3	*Milwaukee*
Raehl, Walter Christian	ME1	*Neenah*
Ramien, Carl Henry, Jr.	ME2	*Milwaukee*
Ramsey, Robert Henderson	MinE3	*Racine*
Rasmussen, Erving Walter	ChE3	*Marinette*
Rasmussen, John Peter	CE2	*Oshkosh*
Rasmussen, Walter S.	CE2	*Whitehall*
Reddell, Vernon L.	EE1	*Dodgeville*
Redeen, Byron Chester	CE2	*Milwaukee*
Reeves, Harry Milton	CE2	*Columbus*
Reid, William Pitt	CE2	*Toledo, Ohio*
Reimers, Warren Denkmann	ME2	*Hammond, La.*
Reinke, Raymond John	CE3	*Milwaukee*
Reistad, Frank Edward	CE1	*Milwaukee*
Reuss, Willard Harry	EE2	*Madison*
Rhode, John Andrew	ChE1	*Menasha*
Rhodes, John William	EE3	*Reeseville*
Rhodes, Kenneth Joseph	EE2	*Watertown*
Rice, Elbert R.	ME2	*Monterry, N. L., Mexico*
Richardson, William Harvey	ME1	*Sheboygan Falls*
Ridgeway, Merwin Andres	ChE1	*LaCrosse*
Rieck, John Jacob	ME1	*Milwaukee*
Riley, Donald Crosby	ChE1	*Cleveland, Ohio*
Riplinger, Frank Frederick	ChE1	*Riplinger*
Robbins, Francis LeVitte	CE1	*New Diggings*
Roberts, George William	EE2	*Albany*
Roby, Harlow Scammon	CE2	*Milwaukee*
Rohr, Nathan Coe	ME1	*Nekoosa*
Roland, Harold Frederic	MinE1	*Rockford, Ill.*
Rolfson, Jalmer Oscar	ChE2	*Madison*
Rollis, Robert Thomas	EE1	*McFarland*
Rosecky, Joseph John	EE3	*Milwaukee*
Rosen, Jake Gordon	MinE1	*Waukesha*
Ross, Danforth Raynolds	MinE2	*Clarksville, Tenn.*
Rubio, Alfonso	EE2	*Santiago, Chile*
Rudolf, George Arthur	ME3	*Oak Park, Ill.*
Ruff, Richard John	CE2	*Bloomer*
Rummele, Robert William	ChE2	*Sheboygan*
Rusch, William Henry	ME2	*Madison*
Ruth, Howard Milton	EE1	*Appleton*
Ryan, Douglas James	ME3	*Milwaukee*
Salzman, Allen Wesley	ME1	*Shawano*
Sandvall, Leslie Edward	ME1	*Alcester, S. Dak.*
Sargent, Harvey Charles, Jr.	EE3	*Green Bay*
Sarnow, Raymond Elmer	CE2	*Milwaukee*
Saue, Reginald Tormo	ME1	*Waterloo*
Schaid, Edgar	ChE2	*Lebanon, Ind.*

Scheler, George Henry	ME1	*Madison*
Schellin, Erwin Albert	CE1	*Milwaukee*
Schifflin, John Baeumer	ME2	*Milwaukee*
Schink, Ludwig John	ChE3	*Milwaukee*
Schipporeit, George Paul	CE2	*West Allis, Wis.*
von Schlichten, Frederick Edward	EE3	*Yonkers, N. Y.*
Schueter, Clyde Frederick E.	EE1	*Wausau*
Schmid, Ben Jacob	ME1	*Monroe*
Schmidt, Galen Frederick	EE1	*Milan*
Schmidt, Vernon William J.	EE1	*Milan*
Schmitz, Edgar Robert	CE2	*Anaconda, Mont.*
Schmitz, Sidney Bernard	ME1	*Fond du Lac*
Schneller, John Benjamin	EE1	*Neenah*
Schnorr, Thomas William	EE2	*Two Rivers*
Schoephoester, Melvin William	ME1	*Baraboo*
Schreiber, Gilbert Frank	ME1	*Wausau*
Schultz, Edward Howard	ME2	*Chicago, Ill.*
Schumann, Chester William	EE1	*Rhinelander*
Schutz, Paul Benjamin	CE1	*Shawano*
Scully, Albert M.	CE2	*Chicago, Ill.*
Seeley, Benson Horace	CE3	*Hammond, Ind.*
Seidl, Rudolph Peter	ChE2	*Manitowoc*
Sellery, Harry Gilroy	EE2	*Madison*
Semrad, Ernest Frank	EE3	*Boscobel*
Senn, Charles Lester	CE3	*Milwaukee*
Shaheen, Charles Joseph	EE1	*Streator, Ill.*
Shaw, Kenneth Eugene	ME2	*Waunakee*
Sheall, Donald William	CE1	*Chicago, Ill.*
Shellman, John Lawrence	CE1	*Wauwatosa*
Shemaitis, Thomas Alexander	CE1	*Chicago, Ill.*
Sher, Abe Sryll	ME3	*Milwaukee*
Sherburne, Maynard James	CE1	*Fremont*
Shirk, Walter Burnham	EE1	*Madison*
Shower, Albert Joseph	ME1	*Madison*
Sickert, Eugene Droese	ME1	*Milwaukee*
Siegel, John Frances	ME1	*Portage*
Sieger, Raymond William	EE1	*Chaseburg*
Silver, Louis	ME2	*Milwaukee*
Siren, Julius Edward	MinE2	*Iron Belt*
Siver, Chester Asa	ME1	*Kenosha*
Skinner, Eugene Sterling	ME1	*Beloit*
Skoglund, Eric Willard	CE2	*Maywood, Ill.*
Slaby, Rudolph Tom	CE2	*Independence*
Slavney, Milton	ME1	*Madison*
Slightam, David LeRoy	CE1	*Madison*
Smerda, August	ME2	*Racine*
Smith, August Robert Meyer	EE1	*Augusta, Maine*
Smith, David Benedict	ChE2	*West Allis*
Smith, Harold Frederick	CE2	*Freeport, Ill.*
Smith, Walter Newkirk	ME1	*Red Wing, Minn.*
Sobczak, Leonard E.	EE2	*Humbird*
Sobota, John Thomas	ChE2	*Green Bay*
Sommerfield, Sumner	ME2	*Chicago, Ill.*
Sotek, Edward, Jr.	EE1	*Milwaukee*
Sowls, Homer Tillman	CE3	*Darlington*
Specht, Wilton Kunz	EE1	*Mishicot*
Spector, Nathan Melville	ChE1	*Appleton*
Spicka, Edward Arthur	ChE3	*Adams*
Staedtler, Paul Dick	CE1	*Madison*
Staeffler, Richard Paul	CE3	*Manitowoc*
Stark, Carlton Floyd	ME1	*Appleton*

Steckler, Norbert	ME3	*Milwaukee*
Steffen, Alfred Joseph	CE1	*Milwaukee*
Steinman, Leon	ChE2	*Madison*
Stephens, Russell Browett	ChE2	*Birmingham, Mich.*
Stephenson, Theodore Elvin	CE3	*Blair*
Sterba, Melvin	ChE3	*Madison*
Stewart, Wilbur Douglas	EE3	*Ironwood, Mich.*
Stoddard, Lawrence Lyle	ChE1	*Baraboo*
Stoelting, Carl Robert	ME2	*Kiel*
Stoelting, Herman Otto	EE1	*Kiel*
Stolz, Frederick William	ME2	*Green Bay*
Straka, Frank George	ChE2	*Cicero, Ill.*
Strand, John Andrew	CE2	*Wauwatosa*
Strasburger, Herman Albert	ME1	*Cedar Rapids, Iowa*
Stratman, Theodore Victor	EE2	*Montreal*
Straub, William Hill	EE1	*Madison*
Strehl, Orville John	CE1	*LaCrosse*
Strew, Albert Edward	CE3	*Two Rivers*
Strong, Langdon Davenport	EE3	*Milwaukee*
Strouse, Eugene Oliver	ME1	*Arcadia*
Struckmeyer, Lester Clarence	EE2	*Madison*
Stuart, Robert William	CE1	*Monroe*
Sullo, Erwin Emil	EE3	*Milwaukee*
Sundstrom, Vincent Bruce	EE2	*Madison*
Suter, George Dwight	ME2	*Waukesha*
Swaback, Theodore Stanley	CE2	*Chicago, Ill.*
Sweger, Alvin A.	ChE1	*Blair*
Swingle, Orin James	ChE1	*Highland*
Taege, Waldon James	ChE1	*Wausau*
Taft, Bernard Edward	ME3	*Superior*
Tandvig, Marshall Orville	ME2	*Madison*
Tate, Melvin Richmond	ChE2	*Kaukauna*
Taylor, Weston William	MinEl	*New Holstein*
Taylor, Xerxes Ray	ME2	*Milwaukee*
Teare, William Henry	EE3	*Menomonie*
Terras, John Edwin	ME1	*Evanston, Ill.*
Tessendorf, Charles Fred	ME1	*Neenah*
Thern, Royal George	ME1	*New London*
Thomas, Don	EE3	*Fremont, Nebr.*
Thomas, George L.	CE2	*Cumberland*
Thompson, Howard James	ChE3	*Ashland*
Thompson, William Erwin, Jr.	CE3	*Madison*
Thomsen, Hans Jasper	ME1	*Menominee, Mich.*
Thrapp, Harrison Francis	CE3	*Chicago, Ill.*
Thurner, George	CE1	*Milwaukee*
Torrison, Torris	ChE1	*Sheboygan*
Tourville, Clarence Wells	CE2	*Sparta*
Traiser, Martin Henry	EE3	*New Richmond*
Treleven, Harry Arthur	ChE1	*Fond du Lac*
Trenary, Orville John	ME3	*Belmont*
Trumpy, Victor Hagenah	ChE2	*Madison*
Trusler, John Jacob	EE2	*Mondovi*
Tuhus, Kenneth	CE3	*Viroqua*
Tusler, Stanley Sheldon	EE2	*Madison*
Ullsvik, Bjarne R.	ChE1	*Madison*
Ulrich, Earl Edwin	CE1	*Neenah*
Upson, Richard Cour de Lion	EE2	*Madison*
Uthoff, Frank Frederick	EE2	*Astoria, L. I., N. Y.*
Vandenberg, Gordon John	ME1	*Kenosha*
Van Hagan, Robert Leslie	CE2	*Madison*
Vea, Olaf Fritchof	EE2	*Stoughton*

Veselik, Milton Carl	ChE1	*Racine*
Vetter, George William, Jr.	ME1	*Kansas City, Kans.*
Vick, George Truman	EE1	*McFarland*
Viereg, John Richard	CE1	*Manitowoc*
Vilen, Frank Ilmar	CE3	*Kenosha*
Voigt, Frederick Albert	CE1	*Sheboygan*
von Gunten, John Leland	CE1	*Almond*
de Vos, John Wallace	ChE1	*Waupun*
Voss, Kenneth William	CE2	*Black Earth*
Wade, Ellsworth Tilford	ME1	*Beloit*
Wadsworth, Arthur Littleford	ME1	*Fort Thomas, Ky.*
Wagner, Aubrey Joseph	CE2	*Madison*
Wagner, Clarence Oscar	CE1	*Plainfield*
Waite, Philip Homer	ChE3	*Evansville*
Walker, Hugh Allen	ME2	*Racine*
Walters, Roy Howard	ChE1	*Adams*
Ward, Glenn Elmore	ChE1	*Madison*
Washburn, Elmer Bailey	EE1	*Florence*
Watson, Charles Churchill	ChE2	*Madison*
Watson, James Ellis	ChE2	*Appleton*
Watson, Ralph Henry	EE1	*Sparta*
Weavill, Herbert Clayton	EE2	*Viroqua*
Webster, Donald William	CE1	*Milwaukee*
Weckmueller, Gerald John	MinE2	*Milwaukee*
Weed, Fowler Reynolds	ChE1	*Glencoe, Ill.*
Weidenkopf, Stanley John	CE2	*Baraboo*
Weinhold, Frank Meridth, Jr.	EE2	*Wauwatosa*
Weis, Joseph Anthony	EE2	*North Nashville, Tenn.*
Weisgerber, Edgar Henry	EE1	*Oshkosh*
Wells, Robert Muenter	ME3	*Milwaukee*
Wendt, Edward Joseph	EE1	*Madison*
Wenger, Harold Arthur Edward	ChE3	*Madison*
Werner, Francis Elton	EE2	*Pittsville*
Werner, Max Alfred	CE1	*Peoria, Ill.*
Werner, Philip H.	EE2	*Tomahawk*
Wertsch, Robert Streich	CE3	*Oshkosh*
Werve, Donald Edwin	ChE1	*Kenosha*
Wessel, Frederick Joseph	EE1	*Madison*
West, John Frank	MinE2	*Topeka, Kans.*
West, Raymond William	ME2	*Mukwonago*
Westerlund, Karl Robert	ME1	*Blair*
Weston, Roy Francis	CE1	*Reedsburg*
Weyher, Earl Laurence	EE3	*Milwaukee*
Wheeler, Earl Warren	CE3	*Beloit*
Wheeler, James Allen	EE3	*Viola*
Whipple, John Arnold	EE2	*Eau Claire*
White, Frank Paul	CE2	*Milwaukee*
Whitefield, Kyle Carlin	ME2	*Madison*
Whitney, Paul Dering	ME2	*Miami Beach, Fla.*
Whittier, William Albert	ChE1	*Chicago, Ill.*
Wilcox, Ray Everett	ME1	*Janesville*
Wilkins, Forrest Raymond	EE1	*Stevens Point*
Williams, Arthur Demuth	ME2	*Cleveland Heights, Ohio*
Williams, Gordon Curran	ChE3	*Redlonville, Me.*
Williams, Henry Sefra	ChE2	*Britton, S. Dak.*
Willoughby, Robert A.	CE3	*Madison*
Wilson, Rushen Arnold	ME1	*Madison*
Winch, Wesley Randall	EE2	*Milton Junction*
Winther, Robert O.	EE2	*Wausaukee*
Withey, Norman Harker	CE2	*Madison*
Wittliff, Herbert Herman	EE1	*Packwaukee*

Wold, Melvin	CE2	*Ashland*
Wolf, Harold William	ChE2	*Madison*
Wolfe, Albert Louis	CE3	*Waukesha*
Wolff, Richard Edmunds	CE3	*Milwaukee*
Wood, Donald Edgar	ChE1	*Kenosha*
Wood, Royal Harrison	ME1	*Edgarton*
Wooddell, Harold John	EE1	*Wisconsin Rapids*
Woodford, Andrew Gram	EE3	*White Lake*
Woodward, Clifford Brooks, Jr.	ME3	*Cincinnati, Ohio*
Woodward, Milton Albert	EE3	*Hartland*
Woolery, Charles Rascoe, Jr.	ME1	*Fontana*
Worsencroft, Philip Thomas	EE1	*Brockton, Mass.*
Wright, Charles W.	EE1	*Buffalo, N. Y.*
Wunsch, Melvin Henry	EE1	*Reedsville*
Wyss, Walther Erwin	EE1	*Medford*
Yaeger, Edward Miller	ChE1	*Beloit*
Yates, Charles William	EE2	*Janesville*
Yelinek, Leonard John	EE2	*Madison*
Yonko, Bert J.	EE2	*Marshalltown, Iowa*
Youngchild, Kenneth Earl	ChE1	*Nekoosa*
Youngquist, Waldemar Gustave	CE2	*Westboro*
Zabel, Harold Herbert	EE3	*Montello*
Zermuehlen, Alfred Elroy	EE1	*Two Rivers*
Zibell, Jerome William	CE3	*Waterloo*
Zilmer, Delbert Edward	EE2	*Monroe*
Zimmerman, Gordon Bushnell	ChE3	*La Grange, Ill.*
Zimmermann, Edward F. W.	ChE2	*Sheboygan*
Zlatnik, Delbert Frank	ChE2	*Phoenix, Ariz.*
Zoelle, Lester George	ChE2	*Watertown*
Zuzuly, Walter Svetislaw	ME3	*Chicago, Ill.*

LAW SCHOOL

THIRD YEAR

Aune, Harold John	*Rice Lake*
Backus, August Charles, Jr.	*Milwaukee*
Barstow, Barney	*Mondovi*
Barto, Clarence E.	*Madison*
Beermann, Arthur Harold	*Milwaukee*
Bensman, Maurice Ralph	*Milwaukee*
Best, John Stevens B.A.	*Madison*
Beuscher, Jacob H.	*Milwaukee*
Black, George William, B.A.	*Kaukauna*
Boardman, W. Wade	*New Richmond*
Boerner, Carl Francis	*Madison*
Bogue, Harold James, B.A.	*Beresford, S. Dak.*
Brown, William English, B.A.	*Racine*
Bussan, U. George B.S.	*Madison*
Cashman, John Richard B.A.	*Denmark*
Coakley, Maurice Parr B.A.	*Madison*
Conrad, Guy Stanley	*Superior*
Conroy, James John Ph.B.	*Superior*
Conway, Byron Burton, Ph.B.	*Madison*
Cook, Leonard James	*Oshkosh*
Cooke, Lytel Osmon	*Madison*
Crosby, Frederic William ls	*Neillsville*
Crownhart, Charles Henry Jr. B.A.	*Madison*
Davis, Wilmer Wesley	*Racine*

Dawson, Gordon Everesz B.A.	*Milwaukee*
Galinsky, Benjamin Philip B.A.	*Beloit*
Glassen, Harold Willis B.A.	*Madison*
Goldberg, Alfred Gerald	*Milwaukee*
Grabow, Louis Phillip	*Detroit, Mich.*
Graunke, Walter Albert	*Wausau*
Green, Eugene Lester	*Milwaukee*
Griesser, Paul Wilson ls	*Medford*
Griffith, William Paul B.A.	*Oconomowoc*
Hagerty, George Arlyn	*Madison*
Hardy, Louis Sarkis	*Racine*
Herlache, Clifford Halstead	*Madison*
Hillyer, Frederick Fuller	*Indianapolis, Ind.*
Hindin, Nathan	*Milwaukee*
Hirt, Arthur Franklin	*Altoona, Pa.*
Hoeffel, Harry Peter B.A.	*Appleton*
Hohman, Elmer E.	*Wausau*
Holstein, Leo Laurence	*Milwaukee*
Huot, Francis Bernard	*Superior*
Iushevitz, Ephraim Edward	*Milwaukee*
Jasper, Claude Joseph	*Bovey, Minn.*
Kaerwer, Frederick J.	*Oshkosh*
Kahn, Sol J.	*Milwaukee*
Kaner, Oscar Anthony	*Eveleth, Minn.*
Karn, James Emil (spec)	*Madison*
Kelley, Carleton Edward	*Joliet, Ill.*
Konkol, Edward Jacob	*Ashland*
Krueger, W. Marvin	*Milwaukee*
Larkin, Edwin James Hurst	*Madison*
Lauritzen, Richard Harding	*Eau Claire*
Lehner, Philip, Jr.	*Princeton*
Leshin, Sydney N.	*Milwaukee*
Levin, Morris Jay	*Milwaukee*
Lieberman, Morris	*Milwaukee*
Linley, Victor, B.A.	*Eau Claire*
Lundgren, Victor August, Jr.	*Marinette*
Lungren, Andrew Marvin	*Omaha, Nebr.*
McAndrews, Allan J.	*New Richmond*
MacDonald, Donald Patrick	*Madison*
McKenzie, Edward Charles	*Turtle Lake*
Manser, Burton Rollin, B.A.	*Appleton*
Marshall, Charles Arthur	*Madison*
Massey, Ambrose J.	*Walworth*
May, Arthur Louis	*Neillsville*
Mayer, Albert A., LL.B.	*Milwaukee*
Meisenheimer, Jack Joseph	*Milwaukee*
Meyers, Henry August B.A.	*Madison*
Miner, Oliver H.	*Madison*
Modrall, James Ritchie	*Madison*
Moreland, Harley Oscar	*Hayward*
Morgan, Grace Alma, B.A.	*Spring Green*
Munson, Dexter Irvine, B.A.	*London*
O'Brien, Anthony Emmett, B.A.	*St. Joseph, Mich.*
Olson, Clarence V.	*Ashland*
Orth, Franklin L., B.A.	*Madison*
Otto, George William	*Racine*
Pack, Samuel Lawrence	*Milwaukee*
Peterson, James Margenius (Spec)	*Colby*
Peterson, Marshall Lee	*Ellsworth*
Poser, Frederick Falk	*Columbus*
Rabinovitz, David	*Sheboygan*

Rector, E. Stanley g	*Glenwood, Mo.*
Rector, James Ward	*Glenwood, Mo.*
Rennels, Lamont Naden	*Park Falls*
Riedner, Joseph Henry, B.A.	*Centuria*
Rikkers, Edward Hayes	*Waupun*
Riley, Lawrence John	*Eau Claire*
Roe, Jack Ernest B.A.	*New York, N. Y.*
Schlotthauer, George McDormit, B.A.	*Madison*
Schlutz, Foster	*Chicago, Ill.*
Scholl, Herman Joseph	*Milwaukee*
Shidler, Joe N.	*Pawhuska, Okla.*
Shovers, Marvin Jack	*Racine*
Silver, Norman Bernard	*Milwaukee*
Sinaiko, Jerome Joseph	*Madison*
Sinclair, Jesse Miller	*Madison*
Smith, Rowena Elizabeth, B.A.	*Rockford, Ill.*
Stillman, William Mead, B.A.	*Oshkosh*
Taras, John Gerhard, B.A.	*Doylestown*
Thiel, Roy William	*Fond du Lac*
Thompson, Charles T.	*Madison*
Treichel, William Charles	*Racine*
Varnum, Robert George B.A.	*Hudson*
Wake, Van Buren	*Wisconsin Rapids*
Warner, Ernest N., Jr.	*Madison*
Wearing, George Ray	*Mineral Point*
Weaver, F. Max ls	*Madison*
Webster, Kenneth Fletcher, B.A.	*Milwaukee*
Wegner, Emil F.	*Madison*
Weinke, Ervin August, B.A.	*Sparta*
White, Charles Herman, B.A.	*Madison*
Will, Fred	*Coleman*
Woolsey, Theodore Dwight, Jr., B.A.	*Beloit*
Zearing, Herbert Charles, B.A.	*Madison*

SECOND YEAR

Atherton, Floyd Delmar	*Oshkosh*
Atten, William C.	*Wheaton, Ill.*
Baker, Norman Julius, BA.	*Milwaukee*
Balentyne, Dorothy Margaret	*Belvidere, Ill.*
Barnes, William H., Jr.	*Rockford, Ill.*
Baumann, Fred William	*Racine*
Beardsley, Harold J.	*Wisconsin Rapids*
Blatecky, Joseph, Jr., B.A. g	*Milwaukee*
Braaten, Sanford A., B.A.	*Sun Prairie*
Brodsky, Sidney Albert	*Milwaukee*
Brown, John Richard, B.A.	*Racine*
Brown, William James	*Mount Horeb*
Brummond, Walter Herman	*Menomonie*
Buell, Robert Arthur	*Watertown*
Buenzli, Gregory M., B.A.	*Madison*
Burke, George Louis	*Necedah*
Buss, Roger Calwell	*Madison*
Callahan, Carroll Bernard	*Montello*
Capener, Ormond Wendell ls	*Baraboo*
Choinski, Walter Franz	*Milwaukee*
Chu, Dauphin F., ls	*Washington, D. C.*
Clarke, Franklin Willis	*Madison*
Cole, Lydon Briggs, ls	*Madison*
Cook, Edward John	*Burlington*

Cooper, Earl Irwin	*Waunakee*
Counsell, Charles Harland	*Oconomowoc*
Davidson, Max	*Milwaukee*
Davison, Hollis Gundy	*Frankfort, Ind.*
Dawes, Irving Hemphill	*Menomonie*
Diedericks, Benjamin Carl	*Plymouth*
Dougherty, Clinton Robert, B.A.	*Kilbourn*
Edgarton, Allan Lewis	*Madison*
Feiker, William Winfield	*Racine*
Flom, Carl A.	*Madison*
Foley, William R.	*Superior*
Fox, Phillip J.	*Milwaukee*
Freytag, William Harold, B.A.	*Milwaukee*
Fry, Will Eugene	*Fennimore*
Gansen, Edward F. K., Ph.B.	*Oshkosh*
Gedlinske, Martin B., B.A.	*Milwaukee*
Gill, William Thomas, B.A.	*Madison*
Goodsitt, William Bradley	*Milwaukee*
Hamele, Glendon John, (spec)	*Portage*
Hanaway, Charles Taft	*Green Bay*
Hayes, Hugh Eugene	*Eden*
Healy, Kenneth Clement	*Manitowoc*
Hellermann, Arthur Kenneth	*Milwaukee*
Hemmy, Paul Alfred	*Juneau*
Hollander, Robert	*Milwaukee*
Hughes, Ellis John, B.A.	*Racine*
Huxley, Walter	*Kenilworth, Ill.*
Jones, David Owen B.A.	*Madison*
Jones, Eleanor Louise, B.A.	*Green Lake*
Kahn, Nathan Bernard	*Milwaukee*
Kaiser, Harvey Ervin	*Milwaukee*
Karrmann, Elton Steinkopf	*Platteville*
Kasiska, Robert H., Ph.B.	*Baraboo*
Krueger, David D., B.A.	*Berlin*
Kuckuk, Rolland Antone, ls	*Shawano*
LaBoule, Jean Francis, B.A.	*Milwaukee*
Leahy, Robert James	*Monroe*
Lee, Norma Carolyn, B.A.	*Dodgeville*
Levine, Aaron	*Milwaukee*
LeVine, Allan Carlyle, B.S.	*Chicago, Ill.*
Linke, Elaine M., B.A.	*Madison*
Loebel, Lloyd Herman	*Cedarburg*
Lotwin, Bernice Nisha, B.A.	*Menomonie*
Love, John Charles	*Waukesha*
Luehring, Fred Langlass	*West Allis*
McCaul, Thomas F.	*Tomah*
McDonald, Franklin Davis	*Oshkosh*
McGowan, William John	*Janesville*
McIntyre, Donald James, B.S.	*Elmhurst, Ill.*
McKaskle, Herman Elmer	*Coy, Ark.*
McNown, William Arthur	*New Lisbon*
Macomber, Charles Ed.	*New Lisbon*
Manzer, Henry Maxwell, ls	*Madison*
Masor, Lester Bertram	*Chicago, Ill.*
Medaris, Thomas W.	*Truesdell*
Meister, Milton Louis	*Slinger*
Melnik, Mitchell	*Milwaukee*
Mueller, Edward Joseph	*Milwaukee*
Mulder, John Eldon, B.A.	*LaCrosse*
Mullen, Lyman Aaaron	*Deerfield*
Murphy, Robert Brady L., B.A. g	*Madison*

O'Neill, William Albert	*Prairie du Chien*
Orr, Sam Watterson	*Madison*
Orton, Richard William	*Lancaster*
Ottenstein, Jack Conrad	*Milwaukee*
Parkin, Ralph Caldwell	*Madison*
Port, Kenneth Edward	*Portage*
Pray, Theron Palmer, B.A.	*Ashland*
Reed, Alfred Stivers, ls	*Ripon*
Rice, Gerald Joseph	*Milwaukee*
Rice, Marshall Allan ls	*Milwaukee*
Richter, Julius Edward	*Calvary*
Riley, George Frederick	*Athens*
Robbe, Harvey Millard ls	*LaCrosse*
Rooney, Lloyd Henry	*Baraboo*
Saxton, Elizabeth, B.A.	*Richmond, Ind.*
Schmidt, Edward Carl	*Sheboygan*
Schneider, William McDonald	*Madison*
Schuette, Lloyd Clark	*Green Bay*
Seary, John, Ph.B.	*New Sharon, Iowa*
Silver, Marvin Jack	*Milwaukee*
Smith, Leslie John	*De Pere*
Smith, William H.	*Melvina*
Spracker, Gertrude	*Milwaukee*
Stamper, Harlan	*Crandon*
Steensland, LeRoy James	*Blanchardville*
Swanson, Vernon Andrew	*Rhinelander*
Sweet, Harry	*Madison*
Swerdloff, Joseph Hyman	*Madison*
Swiderski, Joseph Bernard	*Milwaukee*
Thronson, Sidney Julian	*Edgerton*
Voigt, Charles Schrier	*Sheboygan*
Wedlake, James Russel	*Dodgeville*
Welantzik, Solomon	*Stevens Point*
Wheeler, Floyd E., B.A. g	*Beloit*
White, Harry Edward	*Marinette*
Williams, L. Gomer	*Dodgeville*
Winding, Charles Arthur	*Milwaukee*
Wingert, Helen Bridge	*Madison*
Wittkopf Allen C.	*Oconto*
Wozniak, Bernard George	*Milwaukee*
Yates, Tom L.	*Amery*
Young, Cornelius Thomas	*Milwaukee*
Youngerman, Ervin	*Milwaukee*
Zajicek, Charles Joseph	*Milwaukee*

FIRST YEAR

Arne, Peter, ls	*Eagle Grove, Iowa*
Brazeau, Bernard Cushing, B.A.	*Wisconsin Rapids*
Briesen, Ernst Jacob von, B.A.	*Milwaukee*
Brill, Martin Sol	*Milwaukee*
Cuisinier, Frank Xavier	*Chicago, Ill.*
Dixon, John J., ls	*Madison*
Donovan, Joseph Thomas, ls	*Madison*
Evans, Robert D., ls	*Peoria, Ill.*
Fein, Marvin	*Milwaukee*
Hagemeister, Karl, ls	*Green Bay*
Hamel, Vernon Sidney e	*Oshkosh*
Hilty, Robert Oxley, ls	*Toledo, Ohio*
Howard, T. Levron, M.A. g	*Chattanooga, Tenn.*

Hugener, Henry Ward, M.A.	*Superior*
Jacobson, Lloyd Saul ls	*Milwaukee*
James, Henry H.	*Portage*
Kaftan Robert Joseph, ls	*Green Bay*
Kammholz, Theophil Carl, ls	*Rib Lake*
Kimpel, Charles Paul	*Waukesha*
Korbel, Alfred, B.A.	*Milwaukee*
Kroncke, George August, Jr., ls	*Madison*
Lambert, Miles	*Auburn, Nebr.*
LeCount, Kenneth Robert, ls	*Madison*
Leibovitz, Paul	*Milwaukee*
Leicht, Gerald Phillip, B.A.	*Medford*
Leitsch, William W.	*Columbus*
Leonard, Orville C., ls	*Madison*
Levine, Nathan	*Racine*
Linderman, Glenn Otis	*Eau Claire*
Loehning, Gaylord Carl, ls	*Neenah*
McCormick, Lawrence J.	*Soldiers Grove*
McDermaid, Donald W.	*Rockford, Ill.*
McElphatrick, Evelyn E., B.A.	*Franklin, Pa.*
McIntosh, Roscoe Lyle, B.S.	*Madison*
McMurry, Jonathan Harold, ls	*Madison*
Markham, Arthur William, ls	*Independence*
Marquis, Ralph William, M.A. g	*Bellingham, Wash.*
Matheson, John Hubbard, B.A.	*Janesville*
Mennes, Edward S., B.A.	*Stoughton*
Miller, Harry Ely, ls	*Milwaukee*
Motley, Pat Howard	*Marinette*
Motzeff, James D., M.A.	*Beloit*
Murphy, Aaron George	*Brussels*
Murphy, James T.	*Mazomanie*
O'Leary, Henry J., ls	*Madison*
Orlebeke, Adriana, ls	*Oshkosh*
Owen, David Griffith, Jr., B.S.	*Milwaukee*
Pasch, Maurice Bernard, ls	*New Holstein*
Peske, Edgar, ls (spec)	*Chicago, Ill.*
Phillips, David L.	*Kenosha*
Redford, John M., ls	*Wisconsin Rapids*
Saffro, Samuel D., Ph.B.	*Milwaukee*
Schenck, Edwin W., B.A.	*Madison*
Schirmeyer, Theodore George	*Manitowoc*
Schmidt, Gertrude, B.A. g	*Northfield, Minn.*
Schneider, Frank Robert	*LaCrosse*
Shapiro, Aaron A.	*Milwaukee*
Slechta, Jerome Mathew, ls	*Madison*
Strossenreuther, Ovid Ben, B.A. g	*Sugar Bush*
Tesch, Willard John, B.S.	*Port Washington*
Thomann, Emily Wangard, M.A.	*Madison*
Thompson, Allan Edward, ls	*Elroy*
Thomson, Vernon W., B.A.	*Richland Center*
Thorson, Harold Theodore	*Eau Claire*
Tietelbaum, Aaron Lionel, ls	*Wauwatosa*
Torkelson, William E., ls	*Madison*
Verhulst, Marvin Peter, B.A.	*Sheboygan*
Weigel, Carrol Julius, B.A.	*LaCrosse*
Weinberg, Maurice, ls	*Superior*
Youngman, Lee Comstock	*Barron*

COLLEGE OF AGRICULTURE

SENIORS

Abrams, Fenton Neale se	*Mount Hope*
Abrams, Williams J.	*Mount Hope*
Amundson, Robert Andrew	*Madison*
Anderson, Albin Edward	*St. Croix Falls*
Anderson, Donald Adellon	*Bear Creek*
Bartness, Adolph C. se	*Rice Lake*
Bubbert, Walter Gustave	*Milwaukee*
Burkhardt, Martin Jacob se	*Plymouth*
Bushnell, Ralph Judson	*Big Rock, Ill.*
Callenbach, John A.	*Virginia Beach, Va.*
Carroll, Francis Edward	*Hortonville*
Cate, Harold Henry se	*New Glarus*
Chladek, Virgil William	*Mount Horeb*
Craig, George Irving	*Oconomowoc*
Dirks, Hellmut George	*Madison*
Dobrovsky, Todor M.	*Samakov, Bulgaria*
Draxler, John Henry	*Greenwood City*
Ebbott, Gilbert Pethick	*Palmyra*
Fincher, Emmett John	*Oregon*
Fink, Delmar Simon	*West Allis*
Gardner, Sheldon Treseder	*Viroqua*
Giron, Angel Belisario	*Pangasinan, P. I.*
Goldsworthy, Vernon Charles	*Mineral Point*
Hall, Elgin se	*McAlister, Okla.*
Helgren, Clarence Leonard	*Florence*
Henderson, George Robert	*Mukwonago*
Hocking, Charles Henry	*Whitewater*
Howard, George Field	*Durand*
Howell, Basil Beverly	*Fennimore*
Hugunin, Roy John	*Janesville*
Inman, Howard C.	*Beloit*
Jacobs, John Ralph	*Mukwonago*
Josephson, Axel Edgar	*Ashland*
Kanalz, Jack Paul	*Milwaukee*
Kennedy, John P.	*Randolph*
Klockow, Donald Louis	*Twin Bluffs*
Kuester, Eddie Frederick se	*Greenwood*
Lasse, Alfred Carl	*Twin Bluffs*
Leibly, Richard Fred	*Wauwatosa*
Liebelt, Mansfield Richard se	*Phillips*
Lurvey, Clayton Powell	*Dousman*
Maresh, Joseph	*Carrollville*
Marple, Eldon Milo se	*Hayward*
Martin, George Adolph	*Bonduel*
Menos, Jules	*Port-au-Prince, Taiti*
Mitchell, Mark Homer	*Chicago, Ill.*
Morrissey, Harold James se	*Arena*
Murray, Marcus Stanley se	*Sugar Bush*
Nicholas, Ray Thomas se	*Williams Bay*
Nichols, John Levi	*Hebron, Ill.*
Niebauer, Carl William se	*Phillips*
Peterson, John William se	*Ephraim*
Piller, Alvin Louis	*Basco*
Porter, Paul Andrews se	*Mukwonago*
Prideaux, Theodore L. se	*Dodgeville*
Ream, Howard William	*Milwaukee*

Rebholz, Harold Edward se	*Portage*
Rothermel, Arlow William	*Madison*
Schaaf, Daniel, Jr.	*Spooner*
Schaller, John	*Barneveld*
Schnurr, Carl Morgenroth se	*Kewaskum*
Sell, Otto Edwin	*Oshkosh*
Skaife, Milton Joseph se	*Livingston*
Stroebel, Victor Leonard	*Fort Atkinson*
Taylor, Vern Osborn	*Iola*
Tiffany, Albert John	*Antioch*
Ullstrup, Arnold John	*Hartland*
Vorghe, Fred	*Bellville*
Weckel, Kenneth Grandville	*Canton, Ohio*
Werner, George M.	*New London*
Wisch, Herbert Fred	*Jefferson*
Woelfel, Oscar George	*New Holstein*
Wojta, Alfred Joseph	*Madison*
Zoerb, Carl Rudolph	*LaCrosse*
Zurbuch, Alfred Alvis se	*Madison*

HOME ECONOMICS

Adams, Eva	*Chicago, Ill.*
Adgate, Dorothy	*Wheaton, Ill.*
Alton, Alice Berniece se	*Linden*
Amundsen, Gunvor Margaret	*Rochester, Minn.*
Amundson, Geneva Lucile	*Galesville*
Anderson, Arbutus Eleanor	*Beloit*
Anderson, Eleanor Jefferson	*Milwaukee*
Antholt, Viola Louise se	*Coleman*
Ash, Zora Irene se	*Adrian, Mich.*
Aspnes, Agnes Marie se	*Colfax*
Beals, Marjorie Belle se	*Madison*
Beardmore, Mildred se	*Oshkosh*
Bender, Matilda Kathryn	*Chicago, Ill.*
Bingham, Nancy Gladys	*Tomahawk*
Bradsteen, Zillah Gurn	*Beloit*
Carlisle, Ruth Helen	*Marquette, Mich.*
Carlson, Ellen Mathilda	*Marinette*
Clark, Ruth Elizabeth se	*Janesville*
Clement, Virginia Jeannette	*River Forest, Ill.*
Cromer, Mrs. Helen Clark se	*Madison*
Dermansly, Aileen Ophelia se	*Barron*
Dernbach, Mary Ellen se	*New London*
Doolan, Antoinette Marie	*Two Rivers*
Finkh, Genevieve Marie	*Janesville*
Fladen, Julia Hansine se	*Deerfield*
Frank, Esther Elizabeth	*Fond du Lac*
Frank, Virginia Claire	*Cudahy*
Fuller, Mary Elizabeth	*Oshkosh*
Graf, Edith Marie se	*Mukwonago*
Grote, Ethel Christine	*Van Horne, Iowa*
Grunow, Marion Elizabeth	*Madison*
Haberkorn, Adena Margarita se	*Ripon*
Hall, Lucille Mary	*Manitowoc*
Helz, Ruth Agnes	*Fond du Lac*
Herrman, May Crystal se	*Racine*
Hinze, Florence Margaret se	*Elkhart Lake*
Hodges, Mildred Adah se	*St. Louis, Mo.*
Hoegberg, Marion Elvera	*Rockford, Ill.*
Hogden, Corinne Georgina	*Ettrick*

Holmin, Serena Dorothea se	*Rockford, Ill.*
Horn, Carolyn Murray	*Logansport, Ind.*
Hub, Vera Ruth se	*Riley*
Jansky, Helen Aluryra se	*Madison*
Johns, Melva Davidson	*Milwaukee*
Jones, Florence Evelyn se	*Merrimac*
Kelhofer, Grace Anna se	*Madison*
Kerr, Leona Marie	*Lancaster*
Kilker, Mary Jean se	*Egan, Ill.*
Kirkpatrick, Elizabeth	*Sheridan, Wyo.*
Kroncke, Adele Annamarie	*Milwaukee*
Ladwig, Esther Peglow	*Milwaukee*
Lathrop, Hope Victoria se	*Wauzeka*
Lowe, Jessie Isabelle se	*Algonquoin, Ill.*
McCarter, Janet Ruth	*Madison*
Manser, Lucile Inez	*Appleton*
Martin, Ruth Yarmo	*Chicago, Ill.*
Messerschmidt, Bernice Katherine	*Madison*
Milem, Matilda Lydia Lucile se	*Madison*
Newbury, Ruth Elizabeth se	*Burlington*
Nieman, Alice Bertha se	*Cedarburg*
Parlette, Zina Irene	*Marion, Ind.*
Peck, Ruth Agnes	*Spring Green*
Perschbacher, Bernice Henrietta	*Kewaskum*
Poole, Dorothy Jessany	*Madison*
Raemisch, Hedwig Louise se	*Madison*
Reed, Frieda Elizabeth se	*Madison*
Reynolds, Florence Margaret se	*Madison*
Rider, George	*Madison*
Rohrer, Melva se	*Alma*
Roosen, Marjorie Matilda	*Ontonagon, Mich.*
Schauer, Irene Louise se	*Hartford*
Schernecker, Kathryn Carlyle	*Madison*
Schilling, Veronica Marie se	*Wausau*
Schleck, Elizabeth S. se	*Madison*
Schoemberg, Doris Emilie se	*Milwauke*
Serwe, M. Elizabeth	*Fond du Lac*
Siemers, Arlyle Althea se	*Madison*
Sorum, Helen Margaret se	*Hollendale*
Stein, Marjorie Mildred se	*Cochrane*
Steinman, Gladys Marie	*Monticello*
Stephens, Marie	*Deerfield*
Stewart, Jeanette Templeton	*Mazomanie*
Stiles, Laura Catherine	*Lake Mills*
Stoecklin, Pearl Bernice	*Highland, Ill.*
Taggert, Virginia Ruth	*Spencer, Iowa*
Taylor, Caroline se	*Nashville, Tenn.*
Thomson, Helen Elizabeth se	*Richland Center*
Torkelson, M. O. Janette se	*Merrill*
Vance, Harriett Josephine se	*Racine*
Van Hagan, Ethel Jean	*Madison*
Weeman, Mary Elizabeth se	*Shawano*
Whyte, Ellen Mae se	*Milwaukee*
Wiig, Gladys Bagley	*Madison*
Ziebarth, Mary Laura	*Madison*
Zwolanek, Helen Katheryn se	*Beloit*

MIDDLE COURSE

Bade, Elmer William	*Cochrane*
Beck, Herman Arthur	*Madison*
Pemberton, Tom W. S., Jr.	*Greensboro, N. C.*

JUNIORS, SOPHOMORES AND FRESHMEN

Abendroth, Arlene Faith	HE1	*Madison*
Abendroth, Renville Clinton	A1	*Madison*
Agnew, Sarah Irene	HEc3	*Rockford*
Ahlgren, Henry Lawrence	A3	*Frederic*
Ahlgren, Theodore Carl	A1	*Frederic*
Albert, Walter Godfried	A3	*Brillion*
Albrecht, Herbert Richard	A2	*Milwaukee*
Alton, June Maxine	HE1	*Livingston*
Amend, Margaret Mary	HE3	*So. Beloit, Ill.*
Ames, Paul Franklin	A1	*Brooklyn*
Ammon, Raymond Norwood	A1	*Madison*
Anderson, Clarence	A3	*Polar*
Andrews, Jennie Belle se	HE3	*Hazel Green*
Baker, Charlotte Jane	HE1	*Goodman*
Bakken, Anthony Wayne	A3	*Blue Mounds*
Bandoli, Harold Richard	A3	*Eau Claire*
Barber, Kathryn Frances	HE2	*Lakewood, Ohio*
Barndt, Orlin Kenneth	A3	*Milwaukee*
Barnett, Dorothy	HE3	*Milwaukee*
Beneditz, Walter Louis	A2	*Juneau*
Bengson, Dorothy Emily	HE2	*Chicago, Ill.*
Berg, George John	A1	*Dodgeville*
Birong, Mary Elizabeth se	HE3	*Madison*
Blakley, Burdette D.	A2	*Madison*
Blase, Angeline Bertha se	HE3	*Coleman*
Blihovde, Norman	A3	*Westby*
Blomgren, Leonard Gustave	A1	*Frederic*
Bloss, Arthur, Jr.	A1	*Salem*
Blumenthal, Lilian Esther	HE2	*Milwaukee*
Boley, Harold Sanford	A1	*Barneveld*
Bolton, Winifred Enid	HE2	*Waterloo*
Boose, Virginia Jane	HE3	*La Grange, Ill.*
Boothroyd, Claude Raymond	A1	*Janesville*
Botts, Janet Pierce	HE2	*Madison*
Boushka, Frank John	A1	*Glen Ellyn, Ill.*
Bowers, George Vernon	A2	*Waupaca*
Braeger, Arthur Oscar	A1	*Pewaukee*
Bratz, Bernice Gordon	HE2	*Weyauwega*
Bremer, Charlot Ann	HE1	*Middleton*
Briggs, Helen Octavia se	HE3	*Madison*
Briggs, William McNelly	A1	*Madison*
Briggson, Frederick Odell	A3	*Viroqua*
Brophy, Dorothy Ellen	HE3	*Madison*
Brudos, Sylvia Jeanette se	HE3	*Viroqua*
Bruere, Carl Fronz	A1	*St. Charles, Mo.*
Bruhn, Hjalmar Diehl	A3	*Madison*
Buelke, Lester William	A1	*Juneau*
Buell, Francis Charles	A2	*Sun Prairie*
Bufton, Ray Evan	A2	*Viola*
Burcalow, Frank Victor	A2	*Monroe*
Bushnell, Mabel Anne	HE1	*Monroe*
Bushnell, Virginia Moreland	HE3	*Oak Park, Ill.*
Buth, Joyce Gertrude	HE3	*Green Bay*
Cairns, Clifford Earl	A1	*Marinette*
Caldwell, Arlette Janet	HE3	*Morrisonville*
Carney, Loretta Catherine	HE3	*Kaukauna*
Case, Marguerite Jeanette	HE2	*Milwaukee*
Cate, Clinton Allan	A1	*Ashland*

Chambers, Florence Elizabeth	HE2	*Monroe*
Cheng, Tsung Hsien	A3	*Peking, China*
Christensen, Alice Marion	HE2	*Deerfield*
Christensen, Milo Walter	A2	*Racine*
Clark, Helena Mae	HE1	*Boscobel*
Clark, Thelma Belle se	HE3	*Boscobel*
Clements, Frank Emil	A2	*LaCrosse*
Cody, Jane Marjory	HE1	*Park Ridge, Ill.*
Colver, Charles Nathaniel	AMid1	*Marengo, Ill.*
Comstock, Reginald Morris	A3	*Madison*
Connell, Kenneth James	A2	*Wauwatosa*
Cooper, John Lyman	A1	*Bloomington*
Curran, Douglas Joseph	A2	*Taylor*
Dahle, Ruth Borghild	HE3	*Mt. Horeb*
Darlington, Ernest Dyne	A2	*Racine*
Das, Stephen P.	A2	*Bangaloere, South India*
Davis, George Edward	A2	*Argyle*
Davis, Helen Alice	HE2	*Viroqua*
Defenbaugh, Bernece	HE3	*Onawa, Iowa*
Delwiche, Francis Ernest	A1	*Green Bay*
Dent, Dorothy Mae	HE2	*Baden, Pa.*
Dewar, Margaret Ann	HE2	*Westfield*
Dewey, Lawrence Edward	A1	*Madison*
Doner, Melvin Hazelton	A3	*Plymouth*
Downer, Helen Lucille	HE1	*Milwaukee*
Drought, James Thomas	A3	*Milwaukee*
Duffey, Clair John	A1	*Madison*
Earleywine, Lora Marie	HE2	*Evansvlile*
Earll, Everett Crane	A1	*Chicago, Ill.*
Eberhardt, Ruth Thelma	HE1	*Manitowoc*
Ehlers, Louella Marie	HE1	*New Holstein*
Eichler, Hazel May	HE3	*Marengo, Ill.*
Eisert, Henry Frank	A2	*Chicago, Ill.*
Elkinton, Charles Moore	A3	*Madison*
Ellickson, Lawrence Norman	A1	*Arlington*
Ellis, Dorothy Virginia	A1	*Madison*
Engler Irma Lillian	HE2	*Cassville*
Epple Arol Cole	A2	*Marinette*
Erickson, Robert Marlow se	A3	*Wheeler*
Eubank, Cynthia Ruth	HE2	*Westfield*
Evans, Mary Esther	HE3	*Oriskany, N. Y.*
Everson, Gladys June se	HE3	*Lake Mills*
Eves, Corson Arthur	A3	*South Range*
Farley, Helen Frances	HE1	*Aurora, Ill.*
Fick, Harold Frank	AMid1	*Union Center*
Figor, Gwendolyn C.	HE2	*Wyocena*
Fish, Janet	HE2	*Douglaston, L. I., N. Y.*
Fiskett, Francis John	A3	*Duluth, Minn.*
Fitch, Henrietta	HE1	*Madison*
Fitchett, Donald John	A3	*Janesville*
Fix, Lillian Groth	HE2	*Madison*
Flueck, Barbara Marguerite se	HE3	*LaCrosse*
Freed, Samuel Herbert	A3	*Chicago, Ill.*
French, Lutie Jean se	HE3	*Madison*
Freund, Ernest Cornelius	A2	*Omro*
Fuelleman, Robert Francis	AAdSpl	*Madison*
Gabriel, Alois Max	A1	*Colby*
Gallatin, Melvin Herman	A3	*Marshfield*
Garrow, Edith Alesa	HE1	*Hillsboro*
Gasser, Felicitas Jane	HE3	*Madison*
Gefke, Marshall Laverne	A1	*Oregon*

Gesme, Evelyn LaGarta	HE2	*Mount Horeb*
Gilbert, Annette Faye	HE1	*South Bend, Ind.*
Gleason, Harriet	HE1	*Madison*
Glindeman, Portia Marie	HE2	*Coeur d' Alene, Idaho*
Goldman, Edith	HE1	*Milwaukee*
Goldsmith, Alcy Walker	HE3	*Madison*
Gordon, James Henry	A1	*Mineral Point*
Gorman, Catherine Priscilla Agnes	HE2	*Madison*
Gowey, George Leland	A1	*Medford*
Granius, Frank Eugene	A3	*Brussells*
Grebe, Dorothy Helena se	HE3	*Fox Lake*
Gregor, Rienzi V.	A1	*Algoma*
Griewank, Victor Herbert	A1	*LaPorte, Ind.*
Griffith, Josephine Anna	HE3	*Racine*
Grossenbacher, Fleta Elizabeth	HE2	*Plymouth, Fla.*
Grove, Elaine Jeanine	HE1	*LaCrosse*
Gundlach, Katherine Elizabeth	HE2	*Madison*
Gundlach, Leslie Milton	A1	*Livingston*
Gutgesell, Howard Philip	A1	*Beaver Dam*
Haberkorn, Theodore Lawrence	A1	*Oakfield*
Hafemann, Ruth Anne	HE2	*Libertyville, Ill.*
Hagglund, Anna Jeanette	HE2	*Chicago, Ill.*
Hales, Myron Wallace	A3	*Poynette*
Hall, Jane Cheneweth	A1	*Milwaukee*
Halliday, Hubert Elsworth	A2	*Madison*
Hamilton, Thomas Edwin	A1	*Westfield*
Hammond, James Frederick	A1	*Waterloo, N. Y.*
Hanson, Albert Edward	A1	*Fish Creek*
Hanson, Wayne Harvey	A1	*Fish Creek*
Hardiman, Percy Stephen	A2	*Pewaukee*
Hardin, Arlet Arthur se	A3	*Kenosha*
Harrison, Louise Emogene	HE1	*Madison*
Hauser, Wynona Louise	HE2	*LaCrosse*
Heider, Lillie Amelia	HE2	*Woodstock, Ill.*
Heimann, Leander Charles	A1	*Chilton*
Heins, Louise Annabella	HE1	*Tigerton*
Hendrickson, Vernon Clarence	A1	*Osceola*
Henry, Viola Esther	HE2	*Basco*
Hensey, Kathryn Elizabeth	HE2	*Ft. Atkinson*
Herlihy, Marie Bertha	HE1	*Madison*
Herman, Charles Rieck	A1	*Packwaukee*
Herrmann, Ruth Myrtle	HE1	*Racine*
Hibma, Mary Ada	HE1	*Madison*
Himel, Constance Mora	HE3	*Des Plaines, Ill.*
Hingiss, Esther Ida se	HE3	*Kiel*
Hof, Josephine Katherine	HE1	*Boscobel*
Hoffman, George Earnest	A2	*Madison*
Hogan, Robert John se	A3	*Waunakee*
Hogseth, Eleanor Mabel	HE1	*Chippewa Falls*
Holland, Truman Lot	A1	*Oakfield*
Holsten, Reinhold George	A2	*Columbus*
Holte, Alton Willard	A1	*Strum*
Hoppmann, Caryl Fay	HE1	*Madison*
Hottman, Harvey Archie	A1	*Arena*
Hovey, Martha Virginia	HE1	*Madison*
Hubers, Marjoridel Clausen	HE3	*Davenport, Iowa*
Huckstead, Ruth Margaret	HE1	*Neillsville*
Humphrey, Madge Arlene	HE1	*Patch Grove*
Hurley, Carolyn Rebecca	HE1	*Darlington*
Huth, Arvilla Milita	HE2	*Cochrane*
Irwin, Gertrude Boyce	HE3	*Elroy*

Jacobsen, George Wilhelm	A1	*Washburn*
Jepson, Isla Lorene	HE1	*Bear Creek*
Jesse, Gordon Fred	A3	*Milwaukee*
Jewell, Lee Irving	A3	*Mineral Point*
Johnson, Catherine Margaret	HE2	*Marshfield*
Johnson, Doris	HE2	*Woodstock, Ill.*
Johnson, Ethel Eleanor se	HE3	*Norway, Mich.*
Johnson, Victor M.	A1	*South Wayne*
Johnson, Wallace Alfred	A2	*Mt. Horeb*
Johnston, Melvin Korb	A2	*Lime Ridge*
Jones, Viola Louise	HE1	*Berlin*
Judson, Frederick Barker	A2	*West Allis*
Kampen, Muriel Mae	HE1	*Arlington*
Kelley, Olive Phelps	HE2	*Chicago, Ill.*
Kem, Alberta	HE2	*Dayton, Ohio*
Kerr, Genevieve C.	HE2	*Watertown*
Ketterer, Ruth Elizabeth	HE3	*Madison*
Kielsmeier, Karl Fredrick	A3	*Seymour*
Kind, Louis W.	A2	*Columbus*
Kindschi, Donald Rex	A1	*Prairie du Sac*
King, Florence Catherine	HE1	*Madison*
Kinyon, Euane Wallace	AMid1	*Lake Mills*
Kinyon, Harold Leverno	A3	*Lake Mills*
Kiser, Hazel Lucille	HEAdSp2	*Madison*
Kissel, Beatrice	HE3	*Hartford*
Klein, Thomas Albert	A3	*Waldo*
Kline, Bernerd E.	A3	*Sturtevant*
Klockow, Norma Cathrine	HE3	*Twin Bluffs*
Knospe, Mildred Rose se	HE3	*Alma*
Knospe, Rolland Herman	A1	*Alma*
Kohn, George	A3	*Medford*
Komaroff, Isadore Judah	A3	*Kenosha*
Krahn, Herbert Fred se	A3	*Mayville*
Krause, Frances Emily	HE3	*Milwaukee*
Krueger, Alfred Albert	AMid1	*Milwaukee*
Kuehne, Ruth Louise	HE2	*Chicago, Ill.*
Kuenster, Alice Katherine	HE1	*Glen Haven*
Kulas, Lorene Gertrude	HE2	*Madison*
Kundert, Harold Eugene	A1	*Madison*
Laird, Esther	HE1	*Shiocton*
Lankow, Jeanette Anna se	HE3	*Buffalo, N. Y.*
Larson, Evelyn I. se	HE3	*Blue River*
Larson, Olaf Frederick	A2	*Edgerton*
Lathrop, Ruth Violet	HE3	*Wauzeka*
Lea, Gilbert Fredrick	A3	*Chazy, N. Y.*
Lee, Dorothy Mary	HE3	*Milwaukee*
Lee, Frank Vivian	A1	*Merrimack*
Leesley, Jean Mather	A3	*Chicago Ill.*
Lepp, Jeannette Irene	HE3	*Kenosha*
Letts, William Grant	A1	*Brodhead*
Lilly, John Henry	A3	*Elk Mound*
Linck, Marie Anna	HE1	*Columbus*
Lindley, Edith Marie se	HE3	*Randolph*
Lindsay, Lorna Elaine	HE1	*Madison*
Lingard, Helen Ingaborg	HE2	*Mount Horeb*
Lingley, Charles Maxwell	A1	*St. John, N. B., Can.*
Lipovac, Mary Viola	HE1	*Crivitz*
Litch, Mildred Eugenia	HE2	*Oregon*
Livingston, Helen Margaret	HE1	*Livingston*
Lonergan, Arthur William	A1	*Fredonia*
Lowe, Grace Violet	HE2	*Cleveland, Ohio*

Lubratovich, Milo Milan se	A3	*Duluth, Minn.*
Lubratovich, Mirko Daniel	A2	*Milwaukee*
Luder, Bernice Lenora	HE2	*Mt. Horeb*
Ludwig, Jeanne Wilma	HE1	*Lakewood, Ohio*
Lupton, Hugh Sidwell	A3	*Madison*
McDowell, Marjorie	HE1	*Waukesha*
McFarlane, Jessie Jean	HE3	*Janesville*
McFarlane, Madeline Elinor	HE1	*Madison*
McGovern, Isabel Avice	HE3	*Milwaukee*
McIntosh, Patty	HE1	*Oconomowoc*
MacKillican, Laura-Jane	HE1	*Hibbing, Minn.*
McMillan, Gabriella Minerva se	HE3	*Arlington*
McNamee, Virginia	A1	*Glencoe, Ill.*
Mahnke, LeRoy Fredrick	A3	*Manitowoc*
Martin, Walter Senn	A1	*Milwaukee*
Marty, Pauline Barbara se	HE3	*Monticello*
Mason, Albert Henry	A1	*Brooklyn*
Mehlich, Adolf	A1	*Waukesha*
Merritt, Sarah Ellen	HE1	*Forest City, Ark.*
Meuli, Lloyd Joseph	A2	*Chippewa Falls*
Meyer, Eugene Clarence	A2	*New Holstein*
Meyers, Mildred Augusta	HE1	*Edgerton*
Miller, Jean Pomeroy	HE2	*Madison*
Milne, Ruth Margaret	HE1	*Medford*
Minshall, Lois Elizabeth	HE3	*Viroqua*
Monroe, Ralph Powers	A2	*Antigo*
Moody, Bertha	HE3	*Washington, D. C.*
Morris, Robert Porter	A1	*Mukwonago*
Morris, Virginia Crawford	HE2	*Columbus, Ohio*
Morrissey, Leila Gladys	HE2	*Bloomington*
Morse, Harry Arthur	A1	*Madison*
Moy, Milton Julius	AMid1	*Mondovi*
Muckenhirn, Robert John	A2	*Berlin*
Muehlmeier, Helena Elizabeth	HE2	*Monticello*
Murphy, Winifred Mary	HE2	*Mount Horeb*
Murray, Edgar Samuel	A1	*Chicago, Ill.*
Neesvig, Eleanor	HE3	*Madison*
Nelson, Bernice Agnes	HE1	*Stevens Point*
Nelson, Mabel Louise	HE1	*Janesville*
Nettleton, Wayne Arthur	A1	*Marinette*
Newlin, John Dillon	A1	*Madison*
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Niendorf, Donald William	A3	*Mazomanie*
Niendorf, Emma Louise se	HE3	*Mazomanie*
Ninow, C. George	A2	*Milwaukee*
Noble, Helen May	HE2	*Burlington*
Norris, Stewart Olen	A3	*Middleboro, Mass.*
Olson, Marjorie Georgiana	HE2	*Park Ridge, Ill.*
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Onsrud, Elsie Alberta	HE1	*Stoughton*
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Osborn, Margaret Katherine	HE2	*Beloit*
Otis, Charles Kedzie	A3	*Madison*
Owens, Evelyn Elizabeth	HE1	*Portage*
Paine, Byron Wywan	A2	*Milwaukee*
Paine, Elizabeth	HE3	*Milwaukee*
Pape, Gertrude Anne se	HE3	*Davenport, Iowa*
Paris, Percy Maxwell	A2	*Marion, Ky.*
Parman, Genevieve Lea se	HE3	*Athens*
Paulson, Robert Evans	A2	*Elkhart, Ind.*

Pavlak, Raymond se	A3	*Bruce*
Pease, Helene Hattie	HE1	*Madison*
Peterson, Edith Janatha	HE2	*Kenosha*
Peterson, Theodore	A2	*Downing*
Pierre, Joseph Julian	A2	*Brussels*
Pinter, Herbert J.	A1	*Stanley*
Piszczek, Lawrence Paul	A1	*Green Bay*
Plumlee, Elisabeth Moore	HE2	*Brooklyn*
Poole, Edith Lucille	HE3	*Richland Center*
Porter, John Russell	A1	*Mukwonago*
Poynor, Florence Irene	HE3	*Waunakee*
Pratt, Marian Estelle	HE3	*Richland Center*
Pratt, Sherrin Eugene	A2	*Loyal*
Prochaska, Milada J.	HE3	*Friendship*
Quackenbush, Forrest Ward	A2	*West Salem*
Rathbun, Edith Lorraine	HE2	*Mendota*
Rebholz, Russell Adelbert	A2	*Portage*
Rees, Helen Betha	HE3	*Green Bay*
Reese, Arthur LeRoy se	A3	*Mineral Point*
Reich, Velma Mae	HE1	*Black Earth*
Reid, Ethel	HE2	*Genoa, Ill.*
Rekoske, Regina Marion	HE1	*Milwaukee*
Rendall, Elizabeth Marion	HE2	*Racine*
Renk, Wilbur Nicholas	A3	*Sun Priarie*
Reynolds, Edith Jean	HE1	*Madison*
Reynolds, Garno Ide	A3	*Madison*
Rice, Victor Sidney Jr.	A2	*Chicago, Ill.*
Ripslinger, Mary Agnes se	HE3	*Saginaw, Mich.*
Robertson, Ruth Dorothy	HE1	*Cazenovia*
Robinson, Jane Mowah	HE2	*Milwaukee*
Roe, John Fulton	A3	*Crawford, Colo.*
Ross, Merrill Frances se	A3	*Belleville*
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Rothermel, Virginia Alice	HE3	*Plainfield*
Ruch, Lewis Conrad	A2	*Joliet*
Rust, Rudolph	A3	*Medford*
Ryan, Lucille Lillian	HE2	*Prairie du Sac*
Ryckman, Kenneth Andrew	A1	*Waukegan, Ill.*
Sanford, Austin Boynton	A1	*Chicago, Ill.*
Sayre, Mildred Bunce	HE1	*Chicago, Ill.*
Scarseth, Milton Bernhard	A1	*Ettrick*
Schaefer, Carl William	A3	*Madison*
Schaeffer, Helen Cecelia	HE3	*Belvidere, Ill.*
Schantz, Alphonse Nicholas	A2	*Sparta*
Schantz, Edward Joseph	A3	*Sparta*
Scheel, Mildred Alice	HE1	*Janesville*
Schildberg, Joy Josephine	HE3	*Mendota, Ill.*
Schlafer, Kathryn Belle	HE3	*Menomonee Falls*
Schmelzer, James Frank	AAdSpl	*Madison*
Schmelzer, Stewart Frank	A3	*Madison*
Schmidt, Margaret Mary	HE1	*Milwaukee*
Schmidt, Thomas Christopher	A2	*Waunakee*
Schoenfeld, Emma Martha	HE1	*Peshtigo*
Schroeder, Arthur Frederick	A1	*Antigo*
Schroeder, Ervin William	A2	*Fort Atkinson*
Schubach, Joseph James	A2	*Canton, Ohio*
Schultze, Max Otto	A3	*Basel, Switzerland*
Schumacker, Stanley Raymond	A1	*Racine*
Schwoegler, June Katherine	HE1	*Madison*
Sczepanski, Alfred Edward	A1	*Chase*
Senderhauf, Claire Haried	A1	*Milwaukee*

Severson, Hilma Otilia	HE1	*Bangor*
Seyforth, Harlan Guy	A3	*Mondovi*
Shade, Virginia Louise	HE1	*Decatur, Ill.*
Shell, Kenneth Louis	A1	*Phillips*
Shell, Lorene Mabel	HE3	*Madison*
Sherman, Dorothy Arlene	HE1	*Madison*
Shoemaker, Elizabeth Ann se	HE3	*Spring Lake, Mich.*
Shultis, Max Eugene	A1	*Reedburg*
Sillman, William Theodore	A2	*Ladysmith*
Simpson, S. Jane	HE1	*Madison*
Slinde, Helen Josephine	HE1	*Prairie du Chien*
Smejkal, Erwin Aloyious	A2	*Sturgeon Bay*
Smith, Arthur Jonathan	A2	*Fond du Lac*
Smith, Arthur Wendell	A3	*Delavan*
Smith, Eileen Margaret	HE2	*Milwaukee*
Smith, George Charles	A2	*Chicago, Ill.*
Smith, Harold Clement	A1	*Milwaukee*
Smith, Janet Mara	HE2	*LaMoille, Ill.*
Smith, Luella Frances	HE2	*Albany*
Smith, Merian Bradford	HE3	*Madison*
Smith, Myrtle Irene se	HE3	*Linden*
Solverson, Albert Marshall	A1	*Viroqua*
Spaulding, Velma Gertrude	HE1	*Arlington*
Spencer, Helen May	HE2	*Unity*
Spevachek, Elaine Irene se	HE3	*Green Bay*
Stamm, Ruth Alice	HE3	*Wauwatosa*
Stanek, George Reginald	A1	*Two Rivers*
Stebnitz, Virgil Charles	A3	*Cobb*
Steinbrecher, Lillian Augusta	HE2	*Chicago, Ill.*
Stenback, Edwin Arthur	A1	*Phelps*
Stephenson, Mabel Minnie	HE1	*Madison*
Stephenson, Newell Orr	A1	*Sturgeon Bay*
Stevens, Donovan	A2	*Portage*
Stirn, Frank Edwin	A1	*Arcadia*
Stokes, Russell Hugh	A2	*Waterloo*
Stokes, Stanley Thomas	A2	*Elkhorn*
Stolen, Eleanora June	HE1	*Madison*
Stone, Philip Vernon	A2	*Madison*
Stone, Wilson	A1	*Madison*
Storandt, Marjorie Josephine	HE2	*West Salem*
Strom, Lawrence	A3	*Milwaukee*
Stubbs, Merl Wesley	A2	*North Prairie*
Sullivan, Irene F.	HE2	*Madison*
Swalm, Harris Amos	A2	*Superior*
Swan, Virginia Ross	HE2	*Janesville*
Swoboda, Winnifred Harriet	HE2	*Plymouth*
Taylor, Clyde Arnold	A1	*Eau Claire*
Templin, Roy Albert	A3	*Baraboo*
Thomas, Ruth Marjory	HE2	*Beloit*
Thompson, Alfred McClure	A3	*Madison*
Trimberger, George William	A1	*Chilton*
Trinka, Antonie Marie	A3	*New York, N. Y.*
Ullrich, Gertrude Margaret	HE2	*Plymouth*
Vanevenhoven, Valery Dorothe se	HE3	*Kaukauna*
Van Fleet, Olin Leroy	A1	*Clark's Summit, Pa.*
Van Vuren, Olive Genevieve	HE3	*Bonduel*
Vasby, Johannes	A1	*Cambridge*
Vesperman, Norma Belle	HE3	*Lancaster*
Voigt, Geraldine Elizabeth	HE1	*Madison*
Volk, Gaylord Monroe	A3	*Oconto Falls*
Wahler, Alice Ruth	HE3	*LaValle*

Wallace, Marion	HE1	*Madison*
Ward, Margaret Spalding	HE2	*Springfield, Mass.*
Weber, Raymond Lloyd	A3	*Sturgeon Bay*
Weesner, Elizabeth Ann	HE2	*Marion, Ind.*
Weinrebe, Juanita	HE2	*Minot, N. Dak.*
Weller, Dorothy Alberta se	HE3	*LaPorte, Ind.*
Wendt, Robert Charles	A1	*Madison*
Westedt, Paul Henry	A1	*Reedsburg*
Wetter, Jessie	HE1	*Orchard, Iowa*
Wheeler, Wilma Isabel	HE2	*Viola*
Wichman, Ray Albert	A1	*Barrington, Ill.*
Wiese, Lucille Nedra	HE2	*Madison*
Wilbur, Lloyd J.	A3	*Cadott*
Williams, Donald Treseder	A3	*Dodgeville*
Wing, Beatrice Elizabeth	HE2	*Oconomowoc*
Winger, Caryle Hope	HE2	*Madison*
Winslow, Philip Jay	A2	*Richland Center*
Winters, Margaret Frances	HE3	*Delavan*
Wiswell, Ruth Carpenter	A3	*Chicago, Ill.*
Woelfel Mary Margaret	HE2	*Chicago, Ill.*
Woltman, Marie Hannah	HE3	*St. Paul, Minn.*
Wright, George LaFollette	A1	*Belmont*
Wuethrich, Werner Samuel	A2	*Doylestown*
Yelinek, Homer Milton se	A3	*Livingston*
Young, Anna Sylvia	HE2	*Wausau*
Zeidler, Gibson John	A2	*Plentywood, Mont.*
Zellinger, Charles	A2	*Phillips*
Zellinger, Joe David	A1	*Phillips*
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Zillmann, Kathryn Ann	HE2	*Colby*
Zweifel, Dwight John	A2	*Monticello*

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Duffy, Olive Dorothea	*Evansville, Ind.*
Erwin, Lucille Jane ls	*Inwood, Ind.*
Evans, Thelma W.	*Elwood, Ind.*
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Happer, Bernice Margaret	*Sioux Falls, S. Dak.*
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McCulloh, Dorothea Gleim	*Great Falls, Mont.*
McDaniel, Ruth A. ls	*Darlington*
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Miller, Margaret Laura	*Kansas City, Mo.*
Miller, Mary Agnes ls	*Kansas City, Mo.*
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Older, Leone Florence ls	*Portage*
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Steele, Rea Jessica	*Milwaukee*
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Volker, Alice	*Cottage Grove*
Wamnes, Anita Borghild ls	*Burlington*
Willard, Elleda V.	*Stoughton*
Young, Marian Elizabeth ls	*Springfield, Ill.*

INDEX

Academic requirements, 12
Academic year, calendar of, viii
Accounting, instruction in, 144
Accredited high schools, 36
Administrative officers, xi
Admission
  Adult special students, 40
  Advanced standing, 38
  By certificate from high school, 36
  Examinations for, 40
  Foreign language in high schools, 35
  High schools, accredited, 36
  Medical and physical examinations (see Student Health, 28)
  Methods of, 36
  Normal schools, 39
  Preparatory work, 41
  Requirements, general, 33
  Requirements, special, 34
Advanced credit for high school work, 38
Advanced standing
  Admission with, 38
  Law School, 351
  Letters and Science (see Residence requirement, 52)
  Medical School, 357
Advertising, instruction in, 143, 187
Advisers, faculty
  General statement, 12
  Engineering, 238
  Letters and Science, 50
Aeronautics, instruction in, 271
Agricultural
  Bacteriology, instruction in, 317
  Chemistry, instruction in, 318
  Economics, instruction in, 320
  Education, instruction in, 322
  Engineering, instruction in, 324
  Journalism, instruction in, 327
Agriculture, College of
  Admission requirements, general, 33
  Admission requirements, special, 34
  Buildings, 298
  Courses of instruction, 300
  Curricula in agriculture, 304
  Curricula in home economics, 307
  Dairy courses, 301
  Departments of instruction, 317
  Election of studies by Letters and Science students, 54
  Expenses, 15
  Extension courses on campus, 301
  Experiment station, 302
  Extension service, 302
  Farmers' institutes, 303
  Farm lands, 299
  Fees in special courses, 303
  General information, 298
  Home Economics (see index, Home Economics)
  Library, 299, 345
  Long course, 304
  Middle course, 306
  Options, 304
  Organizations, 303
  Publications, 302
  Rural church summer school, 302
  Short course, 300
  Special courses, 300
  Summer session courses, 300, 301
  Teachers' certificate, 312
  Tuition, 15
Agronomy, instruction in, 328
Algebra, preparation in, 238
Anatomy, instruction in, 362
Animal Husbandry, instruction in, 330
Anthropology, instruction in, 223
Applied Arts
  Course in, 94
  Instruction in, 186
Arabic, instruction in, 218
Art, applied (see Applied Arts, 186)
Art History, instruction in, 120
Astronomical observatory, 431
Astronomy, instruction in, 122
Athletics (see Physical Education, 422)
Attendance, 13
Auditors, 13, 417
Awards, 14

Bachelors' degrees (see Degrees)
Bacteriology, instruction in
  Agricultural, 317
  Dairy and food, 317, 318
  Medical, 366
Bands, 31, 116
Beekeeping, instruction in, 333
Biology, instruction in, 123
Board and room, 24
Board of Regents, x
Board of Visitors, x
Botany, instruction in, 123
Buildings, 8 (see also Agriculture, Engineering, etc.
Bulletins (see Publications)
Business administration, instr. in, 145

Calendars, viii, ix
Campus, description of, 8
Certificate
  Admission by, 36
  Teachers', 82
Cheesemaking (see Dairy Husbandry, 332)
Chemical Engineering
  Course in, 259
  Instruction in, 272
Chemistry, course in, 63
Chemistry-Commerce Course, 67

Chemistry, instruction in
Agricultural, 318
General, organic, etc., 126
Physiological, 367
Pharmaceutical, 201
City Planning, instruction in, 274
Civil Engineering, course in, 242
Classics, instruction in, 130
Clinic, 28
Clinic, Speech, 231
Clubs and societies, 30
Commerce, course in, 76
Committees, faculty, xiv
Comparative Literature, instr. in, 135
Conditions in Letters and Science, 53
Correspondence-study
Courses offered, 392
University credit, 395
Courses of study, 11
Agriculture, long course, 304
Applied Arts, 94
Chemical Engineering, 259
Chemistry, 63
Chemistry-Commerce, 67
Civil Engineering, 242
Commerce, 77
Electrical Engineering, 254
General, Home Economics (B.S. degree), 309
General, Letters and Science (B.A. degree), 58
General, Letters and Science (Ph.B. degree), 61
Home Economics, 309
Humanities, 69
Hygiene, 373
Industrial Education, 93
Journalism, 103
Law, 352
Long Course in Agriculture, 304
Mechanical Engineering, 247
Medical Course (M.D. degree), 361
Medical Science (B.S. degree), 359
Middle Course in Agriculture, 306
Mining Engineering, 263
Music, 118
Normal, 62
Nursing, 372
Pharmacy, 70
Physical Education for men, 97
Physical Education for women, 98
Credits
Advanced standing, 38
Correspondence-study, 395
General statement, 13
Letters and Science, 50
Required for graduation (see various Courses of study)
Curricula (see Courses of study)
Dairy
Bacteriology, instruction in, 317
Chemistry, instruction in, 319
Courses, 301
Husbandry, instruction in, 332
Dancing, major in, 99
Debating
Extension Division, 409
Instruction in (see Speech, 231)
Societies, 30
Deans of men and women, 27
Deficiencies in Letters and Science, 52
Degrees
Bachelors', 11
Conferred at Commencement, 437
Doctor of medicine, 361
Doctor of philosophy, 387
Higher, 12, 385
Honorary, 438
Letters and Science, 49
List of, 11
Masters', 385
Requirements for (see Courses of study)
Deposits, 16
Dermatology, instruction in, 365
Description of campus, 8
Dietetics, instruction in, 376
Doctor of philosophy, 387
Dormitories for women, 25
Dormitories for men, 25
Dramatics, instruction in, 231
Dramatic organizations, 30
Drawing, instruction in
Freehand, 186
Mechanical, 274

Economic Entomology, instr. in, 333
Economics, instruction in
Agricultural, 143, 320
General, 139
Home (see Home Economics)
Education
Agricultural, 322
Instruction in, 151
School of, 80
Educational research, bureau of, 81
Electrical Engineering
Course in, 254
Instruction in, 275
Employment for students, 17
Engineering Administration, instr. in, 278
Engineering, agricultural, 324
(see Engineering, College of)
Engineering, College of
Admission requirements, 33
Advisers, 238
Algebra, preparation in, 328
Buildings, 237
Chemical Engineering Course, 259
Civil Engineering Course, 242
Courses of study, 239

Curricula, 245
Departments of instruction, 271
Election of studies by Letters and Science students, 54
Electrical Engineering Course, 254
Experiment station, 268
Fees and expenses, 15
Freshman lectures, 241
Grade-point system, 238
Graduate work, 242
Honors, 239
Inspection trips, 240
Libraries, 237
Mechanical Engineering Course, 247
Mining Engineering Course, 263
Theses, 240
Tuition, 15
Vacation work, 240
English
Engineering, 280
Instruction in, 158
Required for admission, 41
Enrollment (see Statistical Tables, 440)
Entomology, instruction in
Agricultural, 333
(see also Zoology, 234)
Entrance (see Admission, 33)
Examinations
Doctors', 389
Entrance, 40
Final, 12
Medical and physical, 28
Expenses, 15
Experimental College, 74
Experiment stations
Agricultural, 302
Engineering, 268
Pharmaceutical, 72
Extension courses in agriculture, 301
Extension Division
Business Information Bureau, 414
Classes, 406
Correspondence study, 392
Courses of instruction, 396
Debating and Public Discussion, 409
Dramatic Activities, bureau of, 414
Economics and Sociology, bureau of, 413
Extension Teaching, 391
Field Organization, 415
Lecture bureau, 412
Milwaukee Center, 407
Municipal Information bureau, 413
Organization, 392
Post-graduate medical extension, 409
Public Service, 411
University credit, 395
Visual Instruction bureau, 413

Faculty
Committees of, xiv
Directory of, xvi
Supervision of student life, 27
Failures in Letters and Science, 52
Farm lands, 299
Farmers' institutes, 303
Fees, 16
Fellows and scholars, list of, xlix
Fellowships, graduate, 379
Finance, instruction in, 146
Fine arts (see Art History, 120)
Food chemist, 66
Foods (see Home Economics)
Foreign language
Recommended in high school, 35
Required for graduation (see Courses) (see also specific language in question)
Forensics, 30
Forest Products Laboratory, 427
Forestry, instruction in, 428
Fraternities, honorary, 32
French
Club and house, 164
Instruction in, 165
Freshman Period, 35
Freshman studies in Letters and Science, 59, 61

Gas engines, 292, 324
General course in Home Economics, 309
General courses in Letters and Science
General requirements, 56
Bachelor of Arts course, 58
Bachelor of Philosophy course, 61
Genetics, instruction in, 334
Geography, instruction in, 169
Geological and Natural History Survey, 431
Geology, instruction in, 171
German
House and club, 175
Instruction in, 174
Gifts to the University, 5
Glee clubs, 116
Government
Instruction in, 212
Student, 29
University, 7
Grade-point system
Engineering, 238
General statement, 13
Letters and Science, 50
Grades, 13
Graduate School
Admission to, 378
Clubs and societies, 379
Doctor of philosophy, 378
Engineering degrees, 386
Fees and expenses, 378
Fellowships, 379
Master of science in engineering, 386
Masters' degrees, 385
Non-professional second degrees, 385
Scholarships, 383
Second degrees, 385

Graduation, requirements for (see Courses)
Greek
  Classical, instruction in, 131
  Hellenistic, instruction in, 219
Grounds (see Campus, 8)
Gymnasium, 419

Haresfoot, 30
Health service, 28
Hebrew, instruction in, 218
Hellenistic Greek, instruction in, 219
Higher degrees (see Graduate school, 385)
Higher degrees awarded, 12, 437
High school
  Accredited, 36
  Admission from, 36
  University, 83
High-school work
  Art and vocational subjects, 46
  Credit for advanced, 38
  English, 41
  Foreign language, 44
  History, 43
  Mathematics, 42
  Music, 46
  Science, 43
Highway Engineering, instr. in, 280
Historical sketch, 1
History, instruction in, 180
Holidays (see Calendars viii, ix)
Home Economics
  Bacteriology, major in, 315
  Clothing and Textiles, instr. in, 336
  Food and nutrition major, 313
  Food and Administration, instr. in, 337
  General course, 309
  General requirements, 307
  Majors, 308
  Minors, 308
  Non-professional course, 309
  Nursing major, 316
  Nutrition major, 313
  Professional course, 311
  Related Art, instruction in, 342
  Teachers' certificate, 89, 312
  Teaching major, 311
  Textiles, major in, 314
  Thesis, 308
Honorary degrees awarded, 438
Honorary fraternities, 32
Honors
  Engineering, 239
  General, 14
  Letters and Science, 55
Horticulture, instruction in, 343
Hospital service, 28
Humanities, Course in, 69
Hydraulic Engineering, instr. in, 281
Hygiene, instruction in, 363
Hygienic laboratory, 430

Incompletes in Letters and Science, 53
Industrial Education
  Course in, 93
  Instruction in, 184
Industrial Relations, study of, 140
Industrial scholarships, 81
Infirmary, 28
Institutes, farmers', 303
Insurance, instruction in, 147
International relations, instr. in, 214
Italian, instruction in, 168

Journalism
  Course in, 107
  Agricultural, 327
  General, 188
  Engineering, 280
  School of, 103

Labor, instruction in, 148
Laboratory fees and deposits, 15
Land economics, instruction in, 149
Landscape gardening (see Horticulture, 343)
Language (see Foreign language, or specific language in question)
Latin, instruction in, 132
Law School
  Admission to, 351
  Admission to the bar, 354
  Advanced standing, 352
  Courses of instruction, 355
  Election of studies by Letters and Science students, 54
  Fees and expenses, 16
  Library, 355
  Pre-legal studies, 55, 352
Procedure and practice courses, 353
  Required courses, 353
  Requirements for graduation, 353
Law (see also Political Science, 215)
Lectures
  Freshman engineering, 241
  Extension, 412
  Public, liv
Legislative scholarships, 18
Letters and Science, College of, 49
  Advisers, 50
  Attendance, 51
  Conditions, 53
  Courses of study, 49
  Credits, 50
  Deficiencies, 52
  Election of studies in agriculture and engineering, 54
  Election of studies in law school, 54
  Failures, 52
  Freshman studies, 59, 61
  General courses, 56
  General regulations, 50
  Grade-point system, 50
  Honors, 55

Incompletes, 53
Major study, 57
Medical science, major in, 58
Physical education requirement, 51
Pre-legal studies, 55
Premedical curricula, 73
Rank of students, 56
Residence requirement, 52
Senior honors, 56
Sophomore honors, 55
Thesis, 57
Transfers from other institutions, 39
Transfers within the college, 52
Upper-group status, 56
Libraries, 10
Library School, 110
License, teachers', 83
Limnology, instruction in, 236
Literature (see English, French, etc.)
Literary societies, 30
Loan funds, 18
Long course in agriculture, 304

Machine Design, instruction in, 282
Manual arts (see Industrial Education, 184)
Marketing (see Agricultural economics)
Masters' degrees, 385
Mathematics
Instruction in, 191
Required for admission, 42
Mechanical drawing, instruction in, 274
Mechanical Engineering, Course in, 247
Mechanics, instruction in, 283
Medals, 14
Medical examination, 28
Medical School
Admission, 357
Course in Medicine, 361
Degrees, 360
Departments of instruction, 362
Pre-medical courses, 359
Medical science, major in, 58
Medicine, instruction in, 364
School of Nursing, 377
Men, Dean of, 27
Men's dormitories, 25
Metallurgy, instruction in, 286
Meteorology, instruction in, 194 (see also Weather Bureau, 430)
Methods of admission, 36
Middle course in agriculture, 306
Military science, instruction in, 424
Milwaukee Center, 407
Mineralogy, instruction in, 173
Mining Engineering
Course in, 263
Instruction in, 285
Municipal Information, bureau of, 413
Museums, 436
Music, School of, 114
Course in, 118
Instruction in, 196
Musical organizations, 31, 116
Natural History Survey, 431
Neuropsychiatry, instruction in, 365
Non-resident tuition, 15
Normal Course, 62
Normal schools, admission from, 39
Norse, instruction in, 217
Nursing, School of
Admission to, 371
Five-year courses, 373
Expense, 371
Instruction in, 376
Three-year course, 372

Observatory, astronomical, 431
Obstetrics and gynecology, instr. in, 366
Officers, administrative, xi
Ophthalmology, instruction in, 370
Orchestra, 116
Orthopedic surgery, instruction in, 370

Painting, instruction in, 186
Paleontology, instruction in, 172
Pathology, instruction in
Medical, 366
Plant, 345
Payment of fees, 16
Pedagogy (see School of Education, 80)
Pediatrics, instruction in, 365
Petrology, instruction in, 173
Pharmaceutical experiment station, 72
Pharmacognosy, instruction in, 201
Pharmacology, instruction in, 367
Pharmacy
Course in, 70
Instruction in, 200
Philology (see language in question)
Philosophy, doctor of, 378
Philosophy, instruction in, 202
Physical Education
Course for men, 97
Course for women, 98
Division of, 419
Instruction in, 204
Minors in, 101
Required work, 421
Physical therapy, instruction in, 369
Physics, instruction in, 209
Physiography, instruction in, 174
Physiological chemistry, instr. in, 367
Physiology, instruction in, 368
Plant Pathology, instruction in, 345
Political economy (see Economics, 139)
Political science, instruction in, 211
Post-graduate medical extension, 409
Poultry Husbandry, instruction in, 346
Pre-legal studies, 55
Premedical curricula, 73, 358
Preparatory subjects (see High-school work)
Prizes, 14
Psychiatric Institute, 433

Psychology, instruction in
  Educational, 153
  General, 216
  Social, 222
Public health (see Hygiene, 363)
Public lectures, liv
Public speaking (see Speech, 231)
Public utilities (see Economics, 149)
Publications
  Student, 31
  University, 7

Radiology, instruction in, 369
Railway Engineering, instr. in, 289
Refunds, 16
Regents, x, 7
Registration days (see Calendar, viii, ix)
Related art, instruction in, 342
Religious organizations, 31
Requirements for
  Admission (see Admission, 33)
  Graduation (see Courses)
Reserve Officers' Training Corps, 425
Residence requirement, Letters and Science, 52
Rhetoric (see English, 159)
Rhinology and otoloryngology, instruction in, 370
Romance Languages, (see French, etc.)
Rooming houses, 24

Sanitary chemist, 66
Sanitary Engineering, instruction in, 281
Scandinavian Languages, instr. in, 217
Scholars and fellows, list of, xlix
Scholarships
  Graduate, 383
  Undergraduate, 18
  (see also Loan funds, 21)
School of Commerce, 76
School of Education, 80
School of Journalism, 103
School of Music, 114
School of Nursing, 371
Science
  General, instruction in, 87
  Preparatory work in, 43
Self-government, 29
Self-support, 17
Semitic Languages, instruction in, 218
Senior honors, 14
Shop Work, instruction in, 290
Short course in agriculture, 300
Social welfare of students, 27
Social work, study of, 220, 225
Societies, 30
Sociology, instruction in, 220
Soils, instruction in, 348
Sophomore honors, 14
Spanish
  Club and house, 228
  Instruction in, 226
Speech clinic, 231
Speech, instruction in, 231
Special students, 40
State Historical Society, 435
State Laboratory of Hygiene, 430
State Toxicological Laboratory, 433
Statistical tables, 437–447
Statistics, instruction in, 150, 226
Steam and Gas Engineering, instr. in, 291
Structural Engineering, instr. in, 294
Student government, 29
Student health, 28
Student life, 27
Summer Session, 416
Supervisory service bureau, 81
Support of the University, 5
Surgery, instruction in, 369
Surveying, instruction in, 295
Swimming test, 423

Teachers'
  Certificate, 82
  License, 83
Textiles, instruction in, 336
Therapeutics, instruction in, 377
Therapy, physical, instruction in, 369
Theses
  Doctors', 390
  Engineering, 240
  Honors in, 14
  Letters and Science, 57
  Masters', 387
Topographic Engineering, instr. in, 295
Toxicologist, State, 433
Toxicology, instruction in, 367
Transfers (see Advanced standing, 38)
Tuition, 15

Union, Wisconsin, 29
Unit, high-school, 33
United States Forest Products Laboratory, 427
United States Weather Bureau, 430
University High School, 83
University Teachers' Certificate, 55, 82
Upper-group status in Letters and Science, 56
Urology, instruction in, 370

Vacations (see Calendar, viii, ix)
Veterinary Science, instruction in, 350
Visitors, Board of, x
Visual Instruction bureau, 413
Vocational guidance and education, 154

Washburn Observatory, 431
Weather Bureau, 430
Wisconsin Academy of Sciences, Arts, and Letters, 436
Wisconsin Geological and Natural History Survey, 431
Wisconsin High School, 83
Wisconsin Psychiatric Institute, 433
Wisconsin Union, 29
Women, Dean of, 27
Women's dormitories, 25

Zoology, instruction in, 234