Twenty-Third Catalog of the Western State Normal School, 1927-1928

Western Michigan University
TWENTY-THIRD CATALOG

of the

Western State Normal School

ANNOUNCEMENTS

1927-1928

KALAMAZOO, MICHIGAN

1927

This Institution is a Member of the American Association of Teachers Colleges
DIRECTIONS

1. Correspondence with Western State Normal School should be addressed as indicated below:
   a) Requests for catalogs, bulletins, blanks for recording high school credits, and other literature—*the Registrar*.
   b) Concerning the adjustment of credits—*the Registrar*.
   c) Concerning board, rooms, and remunerative work for men—*the Dean of Men*.
   d) Concerning board, rooms, and remunerative work for women—*the Dean of Women*.
   e) Concerning rural education—*the Director of the Department of Rural Education*.
   f) Concerning extension work—*the Director of the Extension Department*.
   g) Concerning educational research—*the Director of the Bureau of Educational Measurement and Research*.
   h) Other general inquiries—*the Registrar*.

2. Students applying for admission should
   a) Have a certified copy of their high school credits mailed to the Registrar by the high school from which graduated.
   b) If entering with advanced standing from any county normal, normal school, college, or university, have mailed the complete official statements regarding the work for which credit is sought.
   c) Have credits sent in at as early a date as possible.
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# SCHOOL CALENDAR FOR 1927-1928

(Holidays are indicated by bold face type)

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CALENDAR ANNOUNCEMENTS FOR 1927-1928

1927

SPRING TERM
Monday, April 3. Registration of Students
Tuesday, April 4. All Classes Meet
Friday Noon, June 17. Spring Term Closes
Saturday, June 18. Alumni Day
Sunday, June 19. Baccalaureate Address
Monday, June 20. Commencement

SUMMER SESSION
Monday, June 27. Registration of Students
Tuesday, June 28. All Classes Meet
Friday Noon, August 5. Summer Session Closes

FALL TERM
Saturday, September 17 to Wednesday, September 21. Freshman Days
Tuesday, September 20. Registration of Freshmen
Wednesday, September 21. Registration of Upper Classmen
Thursday, September 22. All Classes Meet
Wednesday Noon, December 14. Fall Term Closes

1928

WINTER TERM
Monday, January 2. Registration of Students
Tuesday, January 3. All Classes Meet
Friday Noon, March 23. Winter Term Closes

SPRING TERM
Monday, April 2. Registration of Students
Tuesday, April 3. All Classes Meet
Friday Noon, June 15. Spring Term Closes
Saturday, June 16. Alumni Day
Sunday, June 17. Baccalaureate Address
Monday, June 18. Commencement

SUMMER SESSION
Monday, June 25. Registration of Students
Tuesday, June 26. All Classes Meet
Friday Noon, August 3. Summer Session Closes
SOCIAL CALENDAR

FALL TERM, 1927

Friday, September 23 . . . . . . . . . . . . . . . . . . . . Faculty Reception to Students
Friday, September 30 . . . . . . . . . . . . . . . . . . . . Men's Mixer
Friday, October 7 . . . . . . . . . . . . . . . . . . . . High School Party
Saturday, October 8 . . . . . . . . . . . . . . . . . . . . Student Party
Thursday, October 13 . . . . . . . . . . . . . . . . . . . Practice Teachers' Tea
Saturday, October 22 . . . . . . . . . . . . . . . . . . . . Student Party
Friday, October 28 . . . . . . . . . . . . . . . . . . . . Women's League Masquerade
Saturday, November 12 . . . . . . . . . . . . . . . . . . . Student Party
Saturday, November 19 . . . . . . . . . . . . . . . . . . . Y. M. and Y. W. Mixer
Wednesday, November 30 . . . . . . . . . . . . . . . . . Men's Supper
Friday, December 2 . . . . . . . . . . . . . . . . . . . . Sophomore Reception to Freshmen
Saturday, December 10 . . . . . . . . . . . . . . . . . . . High School Christmas Party
Tuesday, December 13 . . . . . . . . . . . . . . . . . . . Christmas Assembly

WINTER TERM, 1928

Wednesday, January 4 . . . . . . . . . . . . . . . . . . . . Men's Mixer
Saturday, January 7 . . . . . . . . . . . . . . . . . . . . Student Party
Thursday, January 12 . . . . . . . . . . . . . . . . . . . Practice Teachers' Tea
Saturday, January 21 . . . . . . . . . . . . . . . . . . . . Student Party
Saturday, January 28 . . . . . . . . . . . . . . . . . . . High School Party
Friday, February 3 . . . . . . . . . . . . . . . . . . . . Y. M. and Y. W. Mixer
Saturday, February 11 . . . . . . . . . . . . . . . . . . . Women's League Party
Friday, February 17 . . . . . . . . . . . . . . . . . . . . Mid-Winter Play
Saturday, February 18 . . . . . . . . . . . . . . . . . . . Players' Banquet
Saturday, February 25 . . . . . . . . . . . . . . . . . . . Junior Banquet to Seniors
Friday, March 2 . . . . . . . . . . . . . . . . . . . . . . . High School Party
Saturday, March 3 . . . . . . . . . . . . . . . . . . . . . . Student Party
Friday, March 9 . . . . . . . . . . . . . . . . . . . . . . . Rural Progress Day
Friday, March 16 . . . . . . . . . . . . . . . . . . . . . . . Student Party

SPRING TERM, 1928

Friday, April 6 . . . . . . . . . . . . . . . . . . . . . . . Freshmen Reception to Sophomores
Thursday, April 12 . . . . . . . . . . . . . . . . . . . . Practice Teachers' Tea
Friday, April 13 . . . . . . . . . . . . . . . . . . . . . . . Joy Night
Thursday, April 19 . . . . . . . . . . . . . . . . . . . . Conservation Day
Saturday, April 28 . . . . . . . . . . . . . . . . . . . . . Student Party
Friday, May 4 . . . . . . . . . . . . . . . . . . . . . . . . High School Party
Friday, May 4 . . . . . . . . . . . . . . . . . . . . . . . . Forensic Recognition Banquet
Saturday, May 5 . . . . . . . . . . . . . . . . . . . . . . . Mothers' Tea
Friday, May 11 . . . . . . . . . . . . . . . . . . . . . . . Student Party
Date to be announced . . . . . . . . . . . . . . . . . . . Children's May Festival
Saturday, June 2 . . . . . . . . . . . . . . . . . . . . . . Women's Breakfast
Thursday, June 14 . . . . . . . . . . . . . . . . . . . . High School Commencement
Saturday, June 16 . . . . . . . . . . . . . . . . . . . . . Alumni Dinner
Saturday, June 16 . . . . . . . . . . . . . . . . . . . . . Alumni Party
Sunday, June 17 . . . . . . . . . . . . . . . . . . . . . . Baccalaureate Address
Monday, June 18 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Commencement
STATE BOARD OF EDUCATION

Hon. Fred Jeffers .................................................. President
Hon. A. M. Freeland .............................................. Vice-President
Hon. W. L. Coffey .................................................. Secretary
Hon. Frank Cody .................................................... Member

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Hon. Wilford L. Coffey

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Bertha S. Davis .................................................... Dean of Women
Ray C. Pellelt, A.M. ................................................ Dean of Men
Frank E. Ellsworth, A.B. ......................................... Director of Training Schools
William H. Cain, A.M. ............................................ Principal of Normal High School

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S.B., The University of Chicago.

LUCIA HARRISON, S.M.
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BELLE STRUNK, S.B.
S.B., The University of Chicago.

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GRACE EDITH SEEKELL, A.B., History and Training School Course of Study.
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DAVID C. SHILLING, A.M., Political Science.
Ph.B., Ohio Northern University; A.B., Miami University; A.M., University of Wisconsin.

WALTER A. TERPENNING, Ph.D., Sociology.
A.B., Kalamazoo College; Ph.D., University of Michigan.

OSCAR S. TRUMBLE, A.M., History.
A.B., A.M., University of Michigan.

The Department of Home Economics

MARY A. MOORE.
Teachers College, Columbia University.

RUTH V. SCHUMACHER, A.M.
S.B., Iowa State College; A.M., Teachers College, Columbia University.

CORA M. WALKER, A.M.
B.S., College of Industrial Arts, Denton, Texas; A.M., Teachers College, Columbia University.

FRANCES E. WALTON, A.M.
A.B., University of Omaha; A.M., Teachers College, Columbia University.

The Department of Foreign Languages

ELISABETH T. ZIMMERMAN, A.M., German.
A.B., University of Michigan; A.M., University of Wisconsin; University of Berlin; University of Heidelberg; American Academy at Rome.

HARRY P. GREENWALL, A.B., Spanish.
B.L., Ohio Wesleyan University; A.B., Western State Normal School; University of Berlin; University of Mexico.

M. AMELIA HOCKENBERRY, A.B., French.
A.B., Wellesley College; Bordeaux University.

ADA M. HOEBEKE, A.B., Latin.
A.B., The University of Chicago.

EUNICE A. KRAFT, A.B., Latin.
A.B., University of Michigan; American Academy at Rome.

M. MARION TAMIN, Ph.B., French.
Université de Caen; Ph.B., The University of Chicago.

MYRTLE WINDSOR, A.B., Spanish and French.
A.B., University of Michigan; The University of Chicago.
The Department of Manual Arts

MARION J. SHERWOOD, B.S.
B.S., Teachers College, Columbia University.

FRED S. HUFF, A.B.
A.B., Western State Normal School; University of Michigan.

CHARLES S. NICHOLS, A.B.
A.B., Western State Normal School.

DON O. PULLIN, B.S.
B.S., Detroit Teachers College.

GEORGE E. TABRAHAM.
Western State Normal School.

LESLIE E. WAGNER.
Western State Normal School.

EMLER C. WEAVER.
Western State Normal School; Teachers College, Columbia University.

The Department of Mathematics

JOHN P. EVERETT, A.M.
A.B., A.M., University of Michigan; Columbia University.

HUGH M. ACKLEY, A.M.
A.B., Olivet College; A.M., The University of Chicago.

GROVER C. BARTOO, A.M.
A.B., A.M., University of Michigan.

HAROLD BLAIR, A.M.
B.S., A.M., University of Michigan.

WILLIAM H. CAIN, A.M.
A.B., University of Michigan; A.M., Teachers College, Columbia University.

PEARL L. FORD, A.B.
A.B., Western State Normal School.

JERIEE LEE HART, A.B.
A.B., Western State Normal School.

BEATRICE W. SHAUNDING, A.B.
A.B., Western State Normal School.

The Department of Music

HARPER C. MAYBEE.
Michigan State Normal College; Columbia University; Student in Paris with Jean de Reszke, Oscar Seagle, and Percy Rector Stephens.

GEORGE E. AMOS, Band and Orchestra.
Northwestern State Normal School, Oklahoma; Bethany Conservatory of Music; Chicago Musical College; Wichita Conservatory of Music.

LEOTI C. BRITTON.
Western State Normal School; Northwestern University; Teachers College, Columbia University.

H. GLENN HENDERSON.
Michigan Conservatory of Music; Student in Paris with Moskowski and Guilmont.

DOROTHEA SAGE SNYDER.
Western State Normal School; Teachers College, Columbia University.

*Absent on leave, 1926–1927.
The Department of Penmanship

Ethel Shimmel.
Western State Normal School.

The Department of Physical Education for Men

Carl P. Schott, Ph.D.
B.S., A.M., Ph.D., Columbia University.

*Judson A. Hyames, A.B.
A.B., Western State Normal School; University of Michigan.

Earl T. Martin, B.S.
B.S., University of Minnesota.

Herbert W. Reed, A.B.
A.B., Western State Normal School.

Lawrence Taylor, A.B.
Springfield Y. M. C. A. College; A.B., Western State Normal School.

The Department of Physical Education for Women

Crystal Worner, A.M.
A.B., Michigan State Normal College; A.M., University of Michigan.

Mary Bottje.
Western State Normal School; University of Wisconsin.

Doris A. Hussey.
Sargent School of Physical Education; University of Wisconsin.

Edith Muller, B.S., Physical Education and Hygiene.
B.S., Teachers College, Columbia University.

Marion A. Spalding.
Teachers College, Columbia University.

The Department of Physics

John E. Fox, A.M.
S.B., The University of Chicago; A.M., University of Pennsylvania.

Walter G. Marburger, S.M.
A.B., S.M., University of Michigan.

Paul Rood, A.M.
A.B., Albion College; A.M., University of Michigan.

The Department of Rural Education

Ernest Burnham, Ph.D., Sociology and Director of Rural Education.
Ph.B., A.M., Albion College; Ph. D., Columbia University.

Anna L. Evans, A.M.
A.B., University of Michigan; A.M., The University of Chicago.

The Department of Speech

Carroll P. Lahan, A.B.
A.B., Oberlin College; University of Wisconsin.

Anna E. Lindblom, A.M.
A.B., A.M., Iowa State University.

Laura V. Shaw, A.M.
B.S., Ohio Wesleyan University; A.M., University of Michigan.

Mary Elizabeth Vandenberg, A.B.
A.B., DePauw University.

*Absent on leave, 1926–1927.
The Normal Training School

FRANK E. ELLSWORTH, A.B., Director.
A.B., Albion College; Teachers College, Columbia University.

LAVERNE ARGABRIGHT, Ph.B., Supervisor.
Ph.B., The University of Chicago; Teachers College, Columbia University.

HELEN BARTON, A.M., Supervisor.

TOMPSIE BAXTER, B.S., Supervisor.
B.S., Teachers College, Columbia University.

*JANE BLACKBURN, B.S., Supervisor.
B.S., Teachers College, Columbia University.

VERLE F. COPPENS, A.M., Supervisor and Early Elementary Education.
B.S., A.M., Teachers College, Columbia University; University of Edinburgh.

ISABEL CRANE, Physical Education.
Michigan State Normal College.

ROWNA HANSEN, B.S., Supervisor.
B.S., Teachers College, Columbia University.

*INA KELLY, A.B., Supervisor.
A.B., Hillsdale College; Teachers College, Columbia University.

LULA McWILLIAMS, Ph.B., Supervisor.
Ph.B., The University of Chicago.

*JANIE NESBITT, B.S., Supervisor.
B.S., Teachers College, Columbia University.

ETHEL HALE RUSSEL, A.M., Supervisor.
B.S., A.M., Iowa State University.

LOUISE S. STEINWAY, A.M., Supervisor.
B.S., A.M., Teachers College, Columbia University.

LOUISE F. STRUBLE, Art.
Western State Normal School.

THELMA HOOTMAN TAWNEY, G.M., Music.
G.M., Northwestern University.

Vine St. Third and Fifth Grade Rooms

ELLEN PATRICIA REIDY, A.B., Supervisor.
A.B., Mt. St. Joseph College, Dubuque, Iowa.

KATE H. VICK, Ph.B., Supervisor.
Ph.B., The University of Chicago.

The Hurd One-Teacher Country School

LOIS M. CLARK, Principal.
Western State Normal School.

Portage Center Consolidated School

*CLEORA A. SKINNER, Principal.
Western State Normal School; The University of Chicago.

MARY LOIS CLARK, A.B., Music.
A.B., Indiana University.

LEWIS D. CRAWFORD, A.B., History.
A.B., Western State Normal School.

*Absent on leave, 1926–1927.
P. J. Dunn, B.S., Agriculture.
    B.S., Michigan State College.
Sigurd Englund, A.M., Supervisor.
    B.S., Kansas State Teachers College; A.M., Teachers College, Columbia University.
Verna Fenstermacher, Art.
    Western State Normal School.
Esther Fletcher, Supervisor.
    Chicago Kindergarten College.
*Marion I. Hall, Supervisor.
    Western State Normal School.
Constance Herbst, A.M., Supervisor.
    B.S., University of Pennsylvania; A.M., Teachers College, Columbia University.
Genevieve Hodgson, A.B., Latin and English.
    A.B., University of Michigan.
Trix Lamb, Supervisor.
    Western State Normal School.
Blanche Leland, Supervisor.
    Michigan State Normal College.
*Anna C. Lubke, Supervisor.
    Western State Normal School.
    B.S., A.M., George Peabody College.
Lela M. McDowell, Ph.B., Supervisor.
    Teachers College, Columbia University; Ph.B., The University of Chicago.
Vera Pickard, Supervisor.
    Western State Normal School.
Emma I. Richards, Supervisor.
    University of Minnesota.
Asenath Worthington, A.B., Supervisor.
    A.B., Beloit College.

The Richland Township Unit School

Ernest Weber, A.B., Principal.
    A.B., Western State Normal School.
Mary Lois Clark, A.B., Music.
    A.B., Indiana University.
Louise Buell Cornish, Supervisor.
    Teachers College, Columbia University.
Verna Fenstermacher, Art.
    Western State Normal School.
Rena L. Goodrich, Supervisor.
    Western State Normal School.
Mildred Gould, A.B., English.
    A.B., Western State Normal School.
Dorah M. Herrington, B.S., Supervisor.
    B.S., Teachers College, Columbia University.
Hazel Hicks, A.B., Supervisor.
    A.B., Western State Normal School.
Gladys Love, B.S., Home Economics.
    B.S., Michigan State College.

*Absent on leave, 1926-1927.
B.S., Michigan State College.

EULA RETHORN, B.S., Supervisor.
B.S., University of Illinois.

GRACE VYNBERG, Supervisor.
Western State Normal.

THELMA VOGT TAYLOR, A.B., Social Sciences.
A.B., Western State Normal School.

LAURA L. WEBER, A.B., Latin.
A.B., Western State Normal School.

The Paw Paw School

ORIN W. KAYE, A.B., Superintendent.
A.B., Olivet College.

JAMES AYARS, B.S., History.
B.S., Northwestern University.

BESS W. BAKER, Ph.B., History.
Ph.B., The University of Chicago.

AMELIA BAUCH, A.M., Mathematics.
B.S., A.M., Teachers College, Columbia University.

A. B. CASTLE, B.S., Science.
B.S., University of Michigan.

HELEN M. COOPER, B.S., Supervisor.
B.S., Teachers College, Columbia University.

LOUISE M. COOPER, B.S., Supervisor.
B.S., Teachers College, Columbia University.

EDNA DELONG, A.B., Supervisor.
A.B., Cornell University.

MARJORIE DICKINSON, Supervisor.
Oberlin College.

BRYAN EMMENT, Ph.B., Physical Education.
Ph.B., The University of Chicago.

SUSAN BEATTA GIBSON, A.M., Latin and Spanish.
A.B., Albion College; A.M., University of Michigan.

C. R. GLAVES, B.S., Commerce.
B.S., Missouri State Teachers College.

MARY HENDERSON, A.B., English.
A.B., University of Michigan.

HAZEL JONES, Ph.B., Supervisor.
Ph.B., The University of Chicago.

B.S., Kansas State Teachers College.

ELSIE MAEE, Ph.B., Supervisor.
A.B., Colorado State Teachers College; Ph.B., The University of Chicago.

REYNOLD G. OAS, B.S., Agriculture.
B.S., Michigan State College.

ANNA C. ORCUTT, A.M., Music and Art.
A.B., A.M., Western Reserve University.

FRANCES A. POPE, Ph.B., English.
Ph.B., The University of Chicago.

EDSON V. ROOT, Principal Senior High School.
Western State Normal School.

DELLA E. SIMPSON, Ph.B., History.
Ph.B., The University of Chicago.
Lillian Stenseth, B.S., Home Economics.
B.S., University of Minnesota.

Clella Stufft, A.M., Supervisor.
A.B., University of Nebraska; A.M., Teachers College, Columbia University.

Lela Trager, B.S., Physical Education.
B.S., State University of Iowa.

Olive Grace Turner, A.B., Supervisor.
A.B., University of Michigan.

Alma Helen Vaninger, A.M., Supervisor.
A.B., Illinois State Normal University; A.M., Teachers College, Columbia University.

The Library

Anna L. French, Librarian.
Michigan State Normal College; Drexel Institute School of Library Science.

Edith E. Clark, A.B., Periodicals.
A.B., Western State Normal School.

Florence Fowler, A.B., Cataloguer.
A.B., University of Missouri; New York State Library School.

Mary A. Harvey, Orders and Accession.
Michigan Female Seminary.

*Phoebe Lumaree, A.B., Circulation.
A.B., Western State Normal School; Simmons College Library School.

Paul Randall, A.B., Circulation.
A.B., Western State Normal School.

The Health Service

Ellis Walker, A.B., Nurse.
A.B., University of Wisconsin; R.N.

Offices

John C. Hoekje, A.B. .................................................. Registrar

Sara E. Ackley .................................................. Co-operative Store

Myrtle Allinson .......................................................... Clerk, Registrar

Blanche Draper .................................................. Editor, Normal Herald

Margaret Feather .......................................................... Clerk, Dean of Men

H. P. Greenwall, A.B. .................................................. Alumni Secretary

Alice Haefner .................................................. Records Office

V. Helen Haight .......................................................... Clerk, Dean of Women

Bernice G. Hesselink .................................................. Financial Secretary

Edna Hirsch .................................................. Records Office

Lloyd E. Jesson .......................................................... Secretary to the President

Mildred Sellers Jones .................................................. Clerk, High School Office

Cornelius MacDonald .................................................. Receiving Clerk

Ardell Olds .................................................. Appointment Office

Eleanor Osborne .................................................. Records Office

Lucille Osborne .................................................. Clerk, Rural Department

Alice Smith .......................................................... Clerk, Training School

Leah Smith .................................................. Extension Secretary

Gretchen Switzer .................................................. Appointment Secretary

*Absent on leave, 1926-1927.
STANDING COMMITTEES

COMMITTEES OF THE FACULTY, 1927-1928

The President is ex-officio a member of each committee.

Appointment Committee—Ellsworth, Brown, Davis, Evans, Hoekje, Mason, Pellett, Spindler.

Assembly Attendance—Pellett, Davis, Hoekje.

Assembly Exercises—Spindler, Britton, Brown, McCracken, Shaw, two students named by the Student Council.

Athletic Board—McCracken, Schott.

Curricula—Sangren, S. Burnham, Cain, Ellsworth, Harrison, Knauss, Pellett, Pennell, Spindler, Sprau, Steele.

Enrollment Committees—

General Chairman—Hoekje.

General Advisory Committee—S. Burnham, Ellsworth, McCracken, Spindler.

Curricula Advisers—

A.B. Degree—Sprau, Harrison, Shilling.
B.S. Degree—Blair, Hilliard.
Art—Siedschlag, Stevenson.

Commerce—Pennell, Watson.

County Certificates (One Year Curriculum)—Evans.

County Renewals—E. Burnham.

Early Elementary—Campbell, Coppens, Mason, Phillips, Seekell.

Home Economics—M. Moore, Schumacher.

Junior High School—Rawlinson, Brown, Ford, F. Moore, Steinway.

Later Elementary—Steele, Ellis, Henry, Johnson, Strunk.

Limited Certificate—Evans.


Normal High School—Cain.

Physical Education for Men—Schott.

Physical Education for Women—Worner, Hussey, Spalding.

Rural—E. Burnham.

Senior High School—Ackley, Eicher, Fox, Hoebke, Zimmerman.

Special State Life Certificate—Bartoo, Trumble.

Unclassified—Trumble, Bartoo.

Extra Studies and Scholarship—Hoekje, Davis, Eicher, Pellett, Sangren.

Health—E. Walker, Davis, Goddard, Hussey, Pellett.

Publications—Hoekje, Eicher, Harrison, Slusser.

Social Life—Davis, Barnes, Cain, Mason, Master, M. Moore, Pellett, Read, Rood, Worner.

Student Organizations:

Student Association Advisory Board—Brown, Hoekje, Lahman, Spindler.

Y. M. C. A.—Ackley, Greenwall, Terpenning.

Y. W. C. A.—Master, Hockenberry, Shaw.
LOCATION

Western State Normal School* is in the city of Kalamazoo, whose location, at the intersection of a wonderful series of natural highways, is one of the finest in the old Northwest. The city is the halfway point on the Detroit to Chicago Michigan Central Railway. The Grand Rapids and Indiana; the Chicago, Kalamazoo, and Saginaw; and the South Haven Branch of the Michigan Central railway, together with the Michigan United Railway, a network of graveled highways, and the State trunk lines, M-13, M-17, and M-43, all following post glacial drainage lines radiating from here, make it easily the hub of southwestern Michigan and a great business and professional center.

The site of the Normal School is one of unusual beauty. Five of the buildings stand upon Normal Hill, which rises a hundred feet above the broad plain of the old glacial Lake Kalamazoo, where are now the celery fields and much of the business and residence part of the city, and through which meanders the Kalamazoo River. This portion of the campus is a spur of a gravel outwash plain, cut off by a post glacial stream. From the hilltop on clear days can be obtained a most pleasing panorama, east and northeastward, over the wooded city in the bottom lands, to the broken moraine of the Saginaw-Michigan ice lobes. To the west of the hilltop is the old drainage valley of the once large and vigorous Arcadia Creek, along which now runs the main line of the Michigan Central Railway. In this depression are the athletic field, the men's gymnasium, the manual arts building, and a recitation building. West of this valley are the hills and the lake dotted plain of the Michigan ice lobe.

In the landscape development of the campus, much of the natural woodland has been preserved. Kalamazoo is in the heart of the southwestern Michigan glacial lake country, and opportunities for diversion are numerous, picnicking, swimming, yachting, skating, and iceboating being popular pastimes.

The city of Kalamazoo has a population of 55,000, dependent upon the business growing out of the rich surrounding farming country, the celery fields within and adjacent to it, the widely known paper mills, and a diversity of other manufacturing industries. The exceptionally pure water supply is obtained from artesian wells that tap the deep glacial gravel beds of the old Kalamazoo Valley.

The Normal School has the advantages of neighborhood with other institutions of kindred purpose: Kalamazoo College, Nazareth Academy, and a splendid public school system. The Public Library, under the charge of the City Board of Education, has a well-chosen collection of more than 75,000 volumes, 272 magazines, and 19 newspapers, the use of which is generously permitted to the Normal School students.

PURPOSE

The purpose of the Western State Normal School, as stated in the act establishing it, is to prepare teachers for the public schools. When this purpose, held in common by all the teacher training institutions of the state, is fully realized, every child in Michigan will be taught by a teacher of vigorous health, high mentality, broad and thorough scholarship, high professional spirit, genuine skill in the art of teaching, culture in the amenities of life, winning personality, and sound character.

By every means in its power this school seeks to attract young men and young women in whom these high qualities are potential. By careful attention to the formation of those habits which make for good health; by the development of sound bodies through physical education; by courses of study which introduce students to the best in thought and life and at the same time give as thorough knowledge of the various branches of study as possible in the time devoted to the work; by teaching which develops right habits of study, an appreciation of scholarship, and an understanding of the principles underlying the teaching process; by providing ample opportunity for prospective

*By legislative act of 1927, name has been changed to Western State Teachers College.
teachers to become acquainted with children and to observe and practice teaching in its varied system of schools; by developing initiative, self-reliance, and community spirit by voluntary participation along the line of the student's taste or interest in a wide range of extra-curricular activities; by encouraging in every way a sane, wholesome social life; in all these ways this school aims to develop in its students the essential qualities of the teacher, and, as a consequence, to do its part in giving the State of Michigan a body of teachers thoroughly trained for every phase of their work. In a word the Western State Normal School is progressive in educational policy and practice. It fosters a wholesome spirit of democracy. By every means at its command it seeks to keep constantly before its teachers and students that character and service are the highest aims of education and the noblest ideals of life.

HISTORICAL SKETCH

The Western State Normal School was established by an act of the legislature of 1903 and the first school year began in June, 1904, under the presidency of Dwight B. Waldo. Rented quarters in the High School and the Kalamazoo College building housed the school for a year and two summer terms. In 1905 the Administration building was completed and in 1907 the gymnasium and a classroom building, connecting the latter with the Administration building. A modern Training School building was ready for occupancy in 1909, Science Hall in 1914, the Manual Arts building in 1921, the $270,000 Library in 1924, and the $260,000 Gymnasium for Men in 1925. The barracks, erected for the S. A. T. C. in 1918, have been utilized for a classroom building since 1923.

Successive land purchases have increased the original campus of 20 acres to one of 56 acres. An initial appropriation was made in 1903 of $35,000 for buildings and equipment, and of $7,000 for salaries and running expenses. Buildings and equipment now represent a total of over $1,600,000 and a fund of $726,000 is available for salaries and running expenses during the current year.

In the first academic year, 1904-1905, 116 students were enrolled, and, including the training school, ten full time and three part time instructors composed the faculty. In the current year there have been 4008 students enrolled, and the faculty, including the affiliated training schools, totals 190 persons.

Graduation from an approved high school is a prerequisite to admission. In 1926 the curricula in art, music, commerce, manual arts, home economics, and physical education were lengthened to three years. The conferring of the degree of Bachelor of Arts, on the completion of a four year curriculum, was authorized in 1917. A curriculum for the degree of Bachelor of Science was formulated in 1925. During the year 1926-1927, 154 bachelor degrees will be conferred, and 852 life certificates and 150 limited certificates will be granted.

The increase in enrollment has made necessary larger training school facilities and these have been gained by affiliation with the Paw Paw village district, the Richland township district, the Portage rural agricultural district, and rural district No. 9, in addition to the opportunities for practice in the public schools of the city.

SUMMARY OF ENROLLMENT, 1926-1927

A. Summer session, 1926 ........................................... 1,827
B. Fall, Winter, and Spring terms, 1926-1927 .................. 2,585
   A.B. Fourth Year ............................................. 141
   A.B. Third Year ............................................... 248
   B.S. Fourth Year ............................................. 40
   B.S. Third Year ............................................... 119
   Second Year .................................................... 918
   First Year ..................................................... 1,091
   Unclassified .................................................. 25
C. Grand total of enrollment .............................................. 4,412
D. Names appearing twice .................................................. 404
E. Total number of different students ..................................... 4,008

The above figures represent the enrollment of high school graduates only; that is, students of collegiate rank.

**GIFTS TO WESTERN STATE NORMAL SCHOOL**

**ART COLLECTION**

Through the kindness of the Honorable Albert M. Todd, the library is able to exhibit pictures, rare books, and manuscripts from his collection. The development of books from the earliest clay tablets to the most beautiful examples of modern printing art and binding is shown by the present display.

**WILD LIFE PRESERVE**

In 1922 Mrs. Caroline G. Kleinstuck deeded to the State Board of Education over fifty acres of woodland and grassland, about a mile from the campus, to be used as a wild life preserve. It is under the administration of Western State Normal School but may be used by any educational institution of this locality.

**FRESHMAN DAYS**

(Saturday, September 17 to Wednesday, September 21)

A few days in advance of registration day, all entering freshmen assemble at Western State Normal School in order that they may become familiar with their new environment as well as with their duties, responsibilities, and opportunities before the regular work of the college year begins. Entering upon a college course is an event of large significance in the life of an individual, and the success of the new venture may depend upon a right beginning.

During these Freshman Days, lectures are given on how to study, how to use the library, healthful living, college traditions, scholastic ideals, and regulations; the requirements of the several curricula offered by the Normal School are explained and provision is made for consultation with a member of the faculty relative to the one best adapted to the interest and ability of the individual student; the opportunities for participation in extra-curricular activities are announced; under the guidance of conductors, various buildings on the campus are visited; a general intelligence test is given; through a diversity of social functions, acquaintances are made, friendships begun, and a sense of class unity developed.

Because Freshman Days has proved to be of such large value to students beginning their collegiate work, every member of the incoming class is required to be present at all the scheduled exercises. The custom of making attendance compulsory is becoming general in standard colleges.

**STUDENT WELFARE**

Conduct in harmony with the ideals for which the institution stands is expected of each student. Effort is made to stimulate the student to earnest, honest endeavor, and to develop new and worthy interests. In order to foster his best impulses and ideals, the administration follows the policy of dealing with him as an individual. In the furtherance of this policy, a Dean of Women and a Dean of Men devote their time to matters pertaining to the welfare of the student body and may be freely consulted on any matter in which they can be of assistance.

The Normal School has never assumed an attitude of paternalism toward her students. However, on the assumption that the student has entered the
institution for the definite purpose of educational advancement, regularity of class attendance, reasonable evening hours, and a sane social program are required. To ensure desirable housing conditions, frequent inspection is made of rooming houses and students are permitted to room only in such houses as have been approved. Specific regulations governing students' conduct are given in the Freshman Handbook, available to all students.

At the beginning of each term representatives of the Y. M. C. A. and of the Women's League meet all trains. They may be recognized by their badges, and may be relied upon for information and advice.

**HEALTH SERVICE**

Physical examinations are conducted by the staffs of the departments of physical education and the medical staff which consists of a physician, graduate nurse, and assistants. Where remedial measures are necessary, suggestions are made for improving the physical well-being. For the nominal fee of twenty-five cents a term, medical care and advice may be received. Many minor cases of indisposition are treated daily, although preventive rather than curative medicine is the aim. All cases of indisposition should be reported to the medical adviser promptly in order that diagnosis of incipient diseases may be made. The offices are in the north basement of the Science Building.

**THE APPOINTMENT SERVICE**

The Appointment Committee aids graduating students of the Normal School in securing suitable positions. This committee seeks at the same time to serve the best interests of the superintendents of the State who desire to secure teachers adapted to the needs of their schools. The committee consists of the Director of the Training Schools and members of the faculty who are in a position to know intimately the record of each student in his class work, practice teaching, and general school activities. An Appointment Secretary gives full time to this work.

At stated times students enroll with this service, receive full information, fill blanks, etc. Full records as to previous experience of students, detailed statements from instructors concerning ability and personality, positions and salary range for which they are adapted, photographs, etc., are kept on file in the appointment office. Copies of these records are sent out upon application to the superintendents, or can be consulted by them when they visit the Normal School.

Superintendents preferably select teachers as a result of personal interviews with candidates suggested by the committee, but vacancies are also filled satisfactorily through correspondence.

A complete alumni file with reports from the present field of work of each former student makes it possible to name candidates for work which requires people of some maturity and experience. Each year a number of former graduates are thus placed in larger cities, county normal work, or superintendencies of larger places.

Appointment service is free to each graduating class and to the alumni. An earnest effort is made to place each graduate in as good a position as his record in the institution justifies.

**BUREAU OF EDUCATIONAL MEASUREMENT AND RESEARCH**

The Bureau of Educational Measurement and Research of Western State Normal School has been established for a three fold purpose: (1) to direct and co-ordinate the measurement and research activities of the training schools and the Normal; (2) to aid in the more adequate preparation of teachers for participation in measurement work; (3) to aid schools and school systems of the state in carrying forward testing programs and experimental work.

The Bureau has on hand a large number of intelligence and educational tests to serve as sample and informational material; it will answer questions relating to measurement and research activities; it carries on statistical work necessary
to answer questions relative to educational problems; it edits bulletins of information concerning educational problems; it conducts the intelligence examinations of students of the Normal; it will send representatives to visit schools and school systems which want to begin testing work for the purpose of instructing teachers, demonstrating the methods of testing, and actually conducting mental educational surveys; and holds, at least once a year, a conference on educational measurements.

The Bureau plans to be particularly helpful and valuable to graduates of the Normal, and to school people of the state, and will gladly participate in the solution of any school problems so far as its resources and personnel permit.

**TRAINING FOR SUPERVISORY AND ADMINISTRATIVE WORK**

Attention is called to the courses listed in the Department of Education and Psychology, page 77. These courses are especially designed for those students holding life certificates and with teaching experience, who desire to continue their studies toward a degree and who plan to do supervisory or administrative work.

**RURAL EDUCATION**

Public opinion is asking equal minimum standards of academic and professional preparation for all beginning public school teachers. This opinion is already a state law in Michigan to the extent of a requirement of one full year of professional training after the completion of a four year high school. All beginning teachers in Michigan will do well to anticipate a state wide requirement of at least two years of preparation in addition to high school graduation.

Western Normal School offers courses of study for the initial preparation of teachers of rural schools as well as subjects in rural education for students who are candidates for a degree. (For detailed description of courses see pages 122-123; for kinds of certificates granted, see pages 37-38.)

Many village and county districts are now paying salaries which enable them to demand at least full life certificate preparation on the part of the teachers they employ.

The enrollment and direction of students who are interested in teaching, administrative, and supervisory positions in rural, village, and consolidated schools, and the promotion of knowledge about and interest in rural education both within and without the Normal School are functions of the Department of Rural Education.

**EXTENSION WORK**

Through the agency of a well organized extension department, teachers in service have large opportunities to secure credits toward a life certificate or a degree. Extension courses are designed to meet the needs of those whose circumstances do not permit of attendance at the Normal School.

A detailed description of the work of this department is given on page 60.

**BUILDINGS AND MATERIAL EQUIPMENT**

There are eight modern buildings, admirably adapted to their uses, and though still inadequate to the growing needs of the school, they provide a splendid physical equipment.

The Library Building, which was completed in the summer of 1924, enables all the students of the school to do reading and reference work under the most comfortable conditions. One corner of the building, at the side of the wide entrance lobby, is occupied by a long delivery desk, behind which is the steel-constructed stack-well, and at the other side of the lobby a corner of the building is devoted to staff work rooms and a faculty reading room. All the rest of this floor is given over to the main reading room, two stories high and 158 feet by 38 feet, accommodating 290 readers. The second floor has two large lecture rooms and two seminar rooms. The basement provides more classrooms, a large study room, and a check room for wraps.
The Library consists of 27,000 volumes, arranged according to the decimal classification, and indexed by a card catalog of the dictionary type. There are 60 complete files of periodicals, and 299 periodicals and 8 newspapers were subscribed for during the current year. An effort is made to ensure the intelligent use of library tools and the principal works of reference by a course of ten lessons required of all first-year students.

The Administration Building contains the administration offices, the Bureau of Educational Measurement and Research, the Alumni office, the Women's League room, the Normal Co-operative Store, the High School assembly room, and several class rooms.

The Training School Building, which houses the pre-high school training school work, is a model building of its kind, with every facility for the effective handling and teaching of children.

The Science Building. The Department of Biology has separate laboratories for special work in physiology, hygiene, general biology, botany, zoology, nature study, and agriculture. The department is in every way thoroughly equipped with the instruments and apparatus necessary for high grade work in the various phases of biological study.

Students of nature study have for their use the Normal School's botanical gardens, stocked with many sorts of wild and cultivated plants. There are pens of domesticated animals and a house especially designed for bird observation. The fifty acre wild life preserve and other places in the neighborhood are the objectives of field excursions.

The Department of Chemistry has laboratory supplies and equipment for four years of undergraduate work. These include some special equipment for lecture demonstrations, courses in physical chemistry, and advanced analysis, an automatic thermostat and an electric combustion furnace.

In the chemistry section of the general library will be found many of the current chemical journals together with a large number of works of authoritative chemists.

The Department of Physics has two lecture rooms, two well equipped laboratories for general physics, a laboratory for electrical measurements and experimental work in radio, a dark room for photometric, spectroscopic and photographic work, as well as a shop and stock rooms.

The laboratories are adequately equipped for experimental work in all phases of general physics. Precision instruments and precision standards are available for use in the courses in electricity and electrical measurements. An experimental radio receiver and transmitter are maintained for the study of radio problems.

In these laboratories the student has ample opportunity to become familiar with the manipulation and operation of modern high grade apparatus.

The Department of Geography and Geology. The equipment includes a file of the United States topographic maps; a collection of the United States Geological Survey folios; a collection of foreign topographic maps, rainfall, vegetation, physical, political, population, and economic maps; a collection of rocks, minerals, and fossils; meteorological instruments; a balopticon and several hundred slides.

The Department of Education and Psychology. For the work in psychology, all the instruments necessary for standard introductory or advanced courses are at the disposal of the student. Chronoscopes, kymographs, tachistoscopes, color mixers, ergographs, etc., constitute a part of this equipment. The department is also well supplied with excellent models of the brain and the sensory organs. The general library of the school contains complete files of all the more important psychological and educational journals, as well as a large list of the standard works in these and related fields.
The Manual Arts Department is in a fireproof structure of modern factory type. Facilities for specialization in woodworking, metal working, and drafting are complete and adequate. Wash-rooms and shower-baths adjoin the locker room. There are separate units for elementary woodwork, advanced woodwork, forging, sheet metal, machine shop, foundry, pattern making, gas engine, and automobile repair work, and the drafting room receives north and west light. This building is modern in every respect, and with its ample equipment, provides satisfactory training opportunities for those interested in the industrial arts.

The Home Economics Department has laboratories for courses in foods and cookery in the Administration building and the Training School, and for clothing and textile work in the Barracks.

The Department of Commerce is in the basement of the Library. A complete equipment of typewriters, filing cabinets, duplicating machines, etc., has been provided so that students may have an opportunity to become familiar with modern mechanical office devices.

The Women's Gymnasium. For their work in physical education the women of the school now have the exclusive use of the gymnasium which was formerly shared with the men in the school. The floor space is 119x68 feet. Sufficient apparatus is available for the needs of all physical education activities, indoor and outdoor athletics. There is also a room equipped for remedial work. In the basement are lockers, shower baths, and a swimming pool.

The Men's Gymnasium was erected in 1925. Its size and equipment make possible adequate training of varsity basketball and indoor track teams, the preparation of physical directors and athletic coaches, and the carrying out of an intra-mural program of physical education and competitive sports during the winter term. Between 3,500 and 4,000 people may be seated around the varsity court during the big games of the season.

There is a regulation basketball floor, with three cross courts for intra-mural purposes, a fourteen lap running track, a vaulting and jumping pit on the main floor; two handball courts and a dirt floor area for the training of hurdlers, shot putters, and vaulters, and for the early work of the baseball battery men; exercise rooms, wrestling, and boxing rooms; and equipment for calisthenic and apparatus work. Locker rooms take care of the needs of all the students. Separate locker space is provided for the varsity and visiting teams and for Normal High School students. There are also offices and classrooms.

The Barracks. In the building used as a Barracks during the S. A. T. C. days are the print shop of the Manual Arts Department, the Early Elementary Department, part of the Home Economics Department, the Art Department, and three general classrooms.

THE TRAINING SCHOOLS

The Training Schools represent one of the most complete systems in the United States and give the student an opportunity for practice teaching in special subjects and in any grade desired from kindergarten to the twelfth grade inclusive. These schools include a wide range of typical schools, such as a one-room rural school, consolidated and township unit school, a large village school, city graded schools, and high school. Transportation to the outlying schools is afforded by the Normal busses.

The Normal Training School includes a kindergarten, a room each for grades one to eight, special class rooms, a library, a gymnasium, and laboratories for both manual arts and home economies. The center of the building is an open light-well forming a rotunda, with a stage for children's assemblies, and a fire place.

Enrollment is by application and new students are accepted from a waiting list when vacancies occur. Owing to the large demand for admission, only
pupils of normal grade age are accepted; no room for retarded pupils is maintained.

The Normal High School is a typical four year high school and a member of the North Central Association. The general assembly room and offices are on the second floor of the Administration Building.

In the Vine Street School of the local city system, third and fifth grade training rooms are operated under the joint control of the Normal School and the Kalamazoo Board of Education. They are in charge of competent supervisors, members of the Normal faculty, and are fully equipped for practice teaching.

The Hurd One-Teacher Country School on West Main Street is housed in a new building, equipped with electric lights, running water, an extra room for practice-teaching, and a basement community room with stage which may be used for indoor play.

The Portage Center Consolidated School, a thirteen teacher school, including kindergarten, all the elementary grades and high school, a gymnasium, and laboratories, is also in a new building especially constructed both to meet the needs of the local community and to extend the practice teaching facilities of the Normal school into this type of situation.

The Richland Township Unit School has a building and facilities similar to those of the Portage school above described.

The Paw Paw Large Village School, opened in 1924, is one of the best of its kind. It is the aim of the Normal School and the Paw Paw Board of Education to make this school a progressive one in every particular. All elementary grades, high school, and special departments are included, and the best types of modern equipment are exemplified. There are at present twenty-six faculty members.

PRACTICE TEACHING (See also pp. 126-128)

In these teaching laboratories, under trained supervision, students have an opportunity to test theory with practice by teaching and observing under especially arranged conditions, which present such problems as will daily be met with in ordinary teaching. Each student is given charge of a definite group of children for whose progress he is responsible for the term.

These training schools are in charge of trained instructors; are furnished with the best types of modern equipment; and, while the work is well grounded in standard practices, the aim is to keep well abreast of the times in all that is progressive in the education of today. While they are established primarily for teacher training purposes, the principle is maintained that the welfare of the children is paramount, since that which constitutes the best education for the child is likewise the best laboratory for the student teacher.
STUDENT ACTIVITIES AND ORGANIZATIONS

ASSEMBLY

Students and members of the faculty meet every Tuesday morning at nine o'clock. The exercises are in charge of a special committee and usually consist of lectures, musical numbers, and other types of entertainment of general interest to the student body.

WOMEN'S CLUBROOM

A large room on the first floor of the Administration building has been attractively furnished and set aside for the use of the women of the school. Students find this charming room with its comfortable chairs and davenports a pleasant place to rest between classes or to come for a cup of tea and a chat with friends in the afternoon. The various women's organizations of the school hold their meetings here.

THE STUDENT ASSOCIATION

Every student upon paying his fees becomes a member of the Student Association of Western State Normal School. This organization, which comprises the entire student body, is governed by an executive group known as the Student Council, the personnel of which consists of the officers of the Association, representatives from each class, and representatives from the major student organizations. The Council conducts two student elections annually, when class officers and class representatives, as well as Association officers, are elected.

The Association provides the democratic means whereby the students of the school govern themselves, with the co-operation of a committee of faculty members, the Faculty Advisory Board. The Association, through its duly elected representatives and with the aid of the faculty, keeps close to the problems of student life. In the last few years it has developed a point system determining the number of extra-curricular activities students may carry; assured the existence of desirable organizations through the charter system; and worked out a financial system managed through the Student Council. Details of the work of the Council are published annually in its handbooks. As a responsible, self-governing body, the Association unifies and inspires a fine type of spirit in the school.

THE WOMEN'S LEAGUE

The Women's League was organized in 1913 to look after the social welfare of the women of the school. It aims to aid the new student in every possible manner, and to promote closer acquaintances. Women students become members by paying a fee of twenty-five cents each term at the time of registration.

RELIGIOUS ORGANIZATIONS

Through the organizations of the Y. M. C. A. and Y. W. C. A., students are offered opportunities for the development and expression of their religious interests. Weekly meetings are held. The members of each association desire to render all possible service to new students.

THE ALUMNI ASSOCIATION

The Western Normal Alumni Association, organized June 19, 1906, by graduates of the first two classes, has served as a bond between the members as teachers throughout the State, and the Normal. With the class of 1927 its number will be approximately eight thousand five hundred, and twenty-three classes will be represented in the membership. Each year headquarters are maintained at the State Teachers' Association meetings, and alumni are urged
to register and make use of the rooms reserved for this purpose. At the commencement home-coming of alumni in June there is a reception and a banquet for members.

Through Normal news-letters the school keeps its alumni informed in regard to various matters of mutual interest. A permanent alumni secretary collects and files addresses and information concerning the graduates who are now placed in all parts of the United States and even in foreign countries. Alumni are encouraged to organize into groups in localities where there are enough graduates to warrant such organization.

ATHLETICS AND PHYSICAL EDUCATION

Gymnasium work is required of all students. The development of physical ability and instruction in correct habits of living are the aims. A physical examination is required of all entering students and corrective exercises are prescribed if necessary. Two gymnasias, several tennis courts, a swimming pool, a large athletic field, and a one-quarter mile cinder running track provide the necessary facilities for participation in all the major sports. The men's teams have had unusual success in all phases of intercollegiate athletics. The women engage in intramural competition in hockey, soccer, basketball, indoor baseball, track, tennis, and swimming, and are represented by varsity teams in tennis and swimming.

THE W CLUB

This organization is composed of men who have won an official letter in one of the major sports.

HONORARY SOCIETIES

Delta Rho was organized four years ago in fulfilment of a need for an honorary forensic society. The membership in this society is limited to the men and women whose work in intercollegiate debate warrants such recognition.

Kappa Rho Sigma is composed of students who have shown marked excellence in the fields of science and mathematics. Election is by vote of members of the faculties of these departments.

DEBATING

The career of Western State Normal School in intercollegiate debating, begun in 1921-22, has been increasingly successful. A large number of students are interested in forensic work, and separate debate squads for men and women are formed every year and trained under faculty direction. From these squads teams are chosen to represent the school against other colleges in Michigan and outside the State.

In addition to the intercollegiate debating, an excellent opportunity for practice in debate and public speaking is offered by the four student debating organizations, two for men and two for women. A series of spirited inter-society debates is held each fall for the possession of a loving cup presented by the Kalamazoo Bar Association.

DEBATING CLUBS

The Forum is the oldest of the Western Normal debating societies. Its purpose is to give its members practice in debating and to promote an intelligent and progressive school spirit.

The Tribunal, the younger of the men's debating organizations, has as its main purpose the encouragement of collegiate debating; but it is also engaged in promoting the best interests of other campus activities. The society has a membership of thirty.
The **Senate** is a women's debating club, organized to develop interest in public affairs through formal debate. Interest in school activities and a high scholastic standing are requirements for membership.

The **Academy**, a women's organization, encourages forensics, requires high scholastic attainments of its members, and develops leadership through participation in society and school activities.

**MUSICAL ORGANIZATIONS**

The **Orchestra** meets once a week throughout the year and gives concerts at various times. All students with a reasonable degree of proficiency on some instrument are eligible to membership. The opportunity for ensemble work under direction is one of which all students should take advantage.

The **Band** has become a prominent organization, furnishes music at athletic and other events, and gives its members the benefit of ensemble playing.

The **Glee Clubs** take an important part in the musical life of the Normal School. Three are maintained: Men's Glee Club, the Women's Glee Club, and the Women's Choir.

**THE PLAYERS**

The purpose of this organization is the promotion of appreciation of the drama among its members and among the members of the student body. Programs for entertainment and study are presented at each regular meeting. The public presentation of two long plays and several one-act plays during the year gives practical experience in acting, staging, and management. Membership is limited and is attained through try-outs held in the spring and fall terms.

**SCIENCE CLUB**

The Students' Science Club exists to instil in its members a scientific attitude and a spirit of research. The meetings are bi-weekly and the programs are scientific lectures or travel talks. All the programs are open to all students of the school. The membership is limited to those students who have elected a year of science or mathematics and maintain a high scholarship in those branches.

**SOCIAL SCIENCE CLUB**

This organization was formed to acquaint students with some of the vital problems of present day life. High scholarship, the recommendation of the faculty of the department of social sciences, and the approving vote of the society are prerequisite to membership. The semi-monthly meetings are devoted to lectures, discussions, or a social time.

**THE CLASSICAL CLUB**

The Classical Club is an organization holding monthly meetings. The active members are students in the Latin department; any other students in the school are cordially welcomed as associate members, particularly those specializing in art, English, or history.

An opportunity is here offered for extending acquaintance with many matters of supplementary interest, discussed in the classroom, such as public and private institutions of the Greeks and Romans, their religion, art, theatre, and the topography and monuments of Athens and Rome. The programs, given by both instructors and students, consist of games, illustrated talks on subjects varying in the different years, and the giving of simple plays.
CERCLE FRANCAIS

An organization known as the Cercle Francais holds monthly meetings to which all except first-year students are eligible. There are programs of a diversified character, designed to create and extend interest in the life and literature of the French people, to encourage conversational French, and to give opportunity for activities not possible in the class-room.

THE COUNTRY LIFE CLUB (National Affiliation)

Students in the Department of Rural Education, and other students who may desire, meet two evenings each month for debates, special topic reports, and free discussion of subjects related to the educational, industrial, and social life of rural communities. Opportunity is afforded for parliamentary practice, and occasionally addresses are made by members of the faculty and leaders in rural education. This work is emphasized by an annual rural progress lecture given by a national leader in the study of rural life. A delegate is sent each year to the National Convention of the American Country Life Association.

In addition to these organizations, there exists a number of clubs, representing the interests of different groups of students. For the major part each is an affiliation for professional advancement and social intercourse of the students following the same curriculum.

THE WESTERN NORMAL HERALD

The "Herald," the official weekly publication of the Normal School, is issued as a four-page paper each Wednesday. It chronicles the important activities of the school. From time to time, throughout the year, special numbers are issued, devoted to art, music, industrial training, athletics, co-educational activities of a special nature, and other particular school interests. Every student and faculty member is a paid subscriber. The alumni give the paper hearty support.
EXPENSES

FEES

Tuition Fees
For residents of Michigan, $5.00 for each regular term of twelve weeks and $3.00 for the Summer session of six weeks.
For non-residents of Michigan, $10.00 for each regular term of twelve weeks and $6.00 for the Summer session of six weeks.
Tuition will be pro-rated if less than three subjects are taken. Full tuition is charged for three or more subjects.
Kalamazoo County students who enroll for Rural Education work may attend Western Normal one year without paying tuition fees, because counties having County Normals provide for one year of free tuition and because, by law, counties having State Normals cannot have County Normals.

Miscellaneous Fees
A fee of $5.75 is collected each term for the support of athletics, student activities, health service, library purposes, and subscription to the Normal Herald.

Graduation Fees
Limited Certificate Curriculum ........................................... $2.00
Life Certificate Curricula .................................................. 3.00
Degree Curricula ........................................................... 3.00
Alumni Fee (Paid by all graduates) ..................................... 1.00

Late Enrollment Fee
By action of the State Board of Education, February 22, 1923, all students who enroll more than one day late shall be charged an additional fee of $1.00. No exceptions will be made to this rule.

Note.—No refund of fees will be made after the first week of the term.

BOARD AND ROOM
A list of approved rooming and boarding houses for men can be obtained from the Dean of Men, and for women from the Dean of Women. It is advisable for students to see the rooms before definitely engaging them.
Rooms are available in the vicinity of the school sufficient to house 1,800 students. The cost of room and board varies. The average cost of double rooms is from $2.00 to $3.00 per week per person. The average cost of single rooms is from $3.00 to $4.00 per week. The average cost of board is from $5.50 to $6.50 per week.

The Cafeteria
The Normal School maintains a lunchroom in the basement of the Training School building where wholesome food is served at small cost. Provision is made for five hundred students at each serving.

ESTIMATE OF EXPENSES
An estimate of the expenses for one term may be formed from the following table:
Room (one-half of a double room) ...................................... $30.00 to $36.00
Board ................................................................. 60.00 to 72.00
Laundry ................................................................. 0.00 to 10.00
Textbooks and supplies ................................................. 15.00 to 25.00
Incidentals .......................................................... 15.00 to 25.00
Tuition and fees (approximately) .................................... 10.00 to 12.50

Total for one term (12 weeks) ....................................... $130.00 to $180.50
REMUNERATIVE OCCUPATION

Kalamazoo offers opportunities for students who wish to support themselves in part during residence in the school. There are openings in a number of lines, including the care of lawns and furnaces, waiting table, care of children, assisting in housework, etc. For those who have had experience in business lines, there is occasional demand.

A woman student, working in a private home for room and board, is expected to give in ordinary housework a maximum of 30 hours a week at 30 cents an hour. If she works for room only, she is expected to give 10 hours a week; if for board only, she is expected to give 20 hours a week. The rates paid for miscellaneous work by the hour vary with the ability and speed of the worker and the type of work done.

Women should address applications for remunerative work to the Dean of Women; men should apply to the Dean of Men.

The Normal lunchroom offers employment to several students. Miss Grace E. Moore is in general charge of the lunchroom and to her all applications for work at the noon hour should be made.

THE CO-OPERATIVE STORE

The Co-operative Store, which began its existence at the opening of the Summer session of 1912, has had a most satisfactory development. Here it is possible for students to procure all their books and school supplies at reduced prices. The saving of students' time afforded by the Co-operative Store is inestimable, while the saving of money owing to low prices is another factor in assuring the general popularity of the institution.

STUDENT LOAN FUND

In September, 1912, the nucleus of a student loan fund was established by the gift of $200 from Miss Blanche Hull. This fund has been increased to a total of several thousand dollars. Money is loaned to deserving students on the recommendation of a faculty committee. A low interest rate of five per cent is charged and notes are given not to exceed one year. Application for loans should be made to the Student Loan Fund Committee.

SCHOLARSHIP FUNDS

The Fannie Ballou Memorial Fund, founded in 1921 in honor of Fannie Ballou, who was for seven years supervisor of the second grade of the Western Normal Training School, is administered as a loan fund. Loans are awarded to persons of superior ability in the field of elementary education who have completed at least one year of resident work in this school. Preference is given to students in the Early Elementary department. Funds are loaned for one year without interest. After that time, interest at the rate of five per cent per annum is charged. Persons receiving the loan are asked to take out an insurance policy, or to give equal collateral for the protection of the loan. The administration of this fund is in charge of a permanent committee of which Mr. Ellsworth is chairman.

The Debate Scholarship and Loan Fund. In the fall of 1920, the four debating organizations on the campus, the Senate, the Academy, the Forum, and the Tribunal, combined to start a fund which should be available for loans to worthy debaters, and which should eventually be used to award scholarships to debaters. The fund has now passed the thousand dollar mark, and has been instrumental in making it possible for several debaters to remain in school. The money is administered as a trust fund, and is under the management of the Forensic Board of Control.

The Goldsworthy Scholarship, founded by Amelia Goldsworthy, former head of the Art department, provides funds to aid worthy students who give promise in art.
CONDITIONS OF ADMISSION

Students may enroll at the opening of any term. All new students should present their applications and credentials by mail to the Registrar before the opening of the term. Blanks for this purpose may be obtained on request.

ENTRANCE TESTS

Standard intelligence and achievement tests are required of each student upon entrance. The results of these tests are not used as a part of the entrance qualifications but are of service in advising students relative to their scholastic work.

ENTRANCE REQUIREMENTS

(Effective for students entering before September, 1928.)

Any recommended graduate of a four-year high school which meets in full the requirements for approval by the Department of Public Instruction, or a graduate of an institution maintaining equivalent standards, may be admitted to any of the normal schools and colleges of the state, provided the applicant submits the following units: (A unit of high school work represents the equivalent of five recitations a week in one subject for one year of at least thirty-six weeks. Two or three hours of laboratory, drawing, or shop work will be counted as equivalent to one recitation.)

- English—three units
- Mathematics—two units, other than arithmetic
- History, civics, and economics—two units
- Laboratory science—one unit (This unit may be in physics, chemistry, or the biological sciences.)
- Foreign languages or other academic subjects—two units
- Five other units (These may be in vocational or academic work from courses offered in the school and approved by the State Department of Public Instruction.)

Students who have completed the first two years of an approved high school course and those who hold second-grade certificates will be admitted to the third year of the Normal High School under the general direction of the committee on High School curricula.

For admission to a degree curriculum, see the detailed outline of the requirements as given on pages 56-58.

Graduates of approved high schools who do not present the required units will be entered on condition and may make up their deficiencies in the Normal High School.

(Effective beginning with September, 1928.)

Admission on Certificate

A graduate of a four-year high school, accredited by the University of Michigan, may be admitted to any one of the four state normal schools provided that he is recommended by the principal of the high school and that he submits credits as follows:

I. Prescribed Units.*

- English.................................................. 3
- Foreign Language**................................ 2
- History.................................................. 1
- Algebra.................................................. 1
- Plane Geometry....................................... 1
- Laboratory Science (Physics, Chemistry, Botany, or Zoology)................................. 1

II. Additional Units from List A.......................... 3

III. Additional Units from List A or B.................... 3

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**ENTRANCE REQUIREMENTS**

**List A**

- English, 3 or 4 units
- Greek, 2 or 3 units
- Latin, 2, 3, or 4 units
- French, 2, 3, or 4 units
- German, 2, 3, or 4 units
- Spanish, 2, 3, or 4 units
- History, 1, 2, or 3 units
- Economics, $\frac{1}{2}$ unit
- Algebra, 1, $\frac{1}{2}$ or 2 units

- Geometry, 1 or $1\frac{1}{2}$ units
- Trigonometry, $\frac{1}{2}$ unit
- Physics, 1 unit
- Chemistry, 1 unit
- Botany, $\frac{1}{2}$ or 1 unit
- Zoology, $\frac{1}{2}$ or 1 unit
- Physiology, $\frac{1}{2}$ unit
- Physiography, $\frac{1}{2}$ or 1 unit
- Geology, $\frac{1}{2}$ unit

**List B**

List B comprises any secondary school subjects not included in List A, which are counted toward graduation by the accredited school.

**Note:**

1. It is expected that the principal will recommend not all graduates, but only those whose character, scholarship interests and attainments, seriousness of purpose, and intellectual promise are so clearly superior that the school is willing to stand sponsor for their success. The grade required for recommendation should be distinctly higher than that for graduation.

2. A unit is defined as a course covering an academic year and including in the aggregate not less than the equivalent of one hundred and twenty sixty-minute hours of class-room work. Two or three hours of laboratory, drawing, or shopwork are counted as equivalent to one of recitation.

3. The units of foreign language must be presented by all candidates for a degree. If not pursued in the high school, this work may be made up in the Normal School but without Normal School credit. Students having had no foreign language in high school must present two other units selected from List A.

4. In order that a half unit in science may be accepted, it must be supplemented by a second half unit in science. For this purpose the only groupings permitted are the following:
   (a) Botany and Zoology.
   (b) Zoology (or Botany) and Physiology
   (c) Physiography and Geology.
   (d) Physiography and Physiology.

**Provisional Admission**

An applicant for admission who presents fifteen acceptable entrance units from Lists A and B as specified above, and who, while presenting twelve units from List A, is deficient in not more than two of the prescribed units, may be admitted provisionally; but these deficiencies must be made up during the first year of residence, except that deficiencies in foreign language may be made up any time before receiving the bachelor's degree.

**Admission by Examination**

Students may also be admitted by examination in fifteen units of work, all of which must be chosen from List A. Arrangements for these examinations should be made with the Registrar at least one month in advance of the date on which the student desires to enter the School.

**Credentials Should Be Sent in Advance**

Prospective students are urged to send their high school credits to the Registrar in advance that there may be no delay when they present themselves for registration and enrollment. Students who have not filed copies of their high school credits in advance should present them at the time of registration.
ROUTINE OF REGISTRATION, CREDITS, ETC.

GENERAL INSTRUCTIONS FOR ENROLLMENT

Before the beginning of each term the Registrar prepares a special form, giving full information for enrollment. A copy of this form may be obtained at the Information Table.

CLASSIFICATION

Students are classified as 1, 2, 3, or 4. Students with fewer than nine units of credit are 1 (first year students); with nine to twenty-four units inclusive, are 2; with twenty-five to thirty-four units inclusive, are 3; with more than thirty-four units, are 4. Beginning students entering without advanced credit are always classified as 1.

CREDIT IN TERM HOURS

A unit of work represents a course of study pursued for twelve weeks with four class periods of fifty minutes each per week, and is regularly recorded as four term hours of credit.

Credits applying on the degree and certificate curricula may be earned in any of the subjects regularly required.

Courses which meet one hour a week for one regular term will be given 1 term hour of credit (one-fourth unit).

Courses which meet two hours a week for one regular term will be given 2 term hours of credit (one-half unit).

Courses which meet three hours a week for one regular term will be given 3 term hours of credit (three-fourths unit).

Courses which meet four hours a week for one regular term will be given 4 term hours of credit (one unit).

A minimum of ninety-six term hours of credit is required for a Life Certificate in a two-year curriculum, 144 term hours of credit for a Life Certificate in a three-year curriculum, 56 term hours of credit for the Limited Certificate, and 192 term hours of credit for the A.B. or the B.S. degree.

Students who carry successfully four regular subjects which meet four times a week for a term will receive 16 term hours of credit (four units).

Eight term hours (one-half of a full term's credit) is usually the maximum credit for any student during the Summer session. Classes reciting one hour daily during the Summer session ordinarily earn 2 term hours while those reciting two hours each day earn 4 term hours.

No credit will be given for a course for which the student is not officially registered.

The Standard Student Class Load

Sixteen term hours of work in addition to physical education is a standard student class load. As all courses do not carry the same number of term hours of credit, the load may vary from fifteen to eighteen term hours.

Extra Studies

No student may enroll for more than eighteen term hours of work without the permission of the Extra Study Committee. Physical Education, Library Methods, and Penmanship are not counted in term hours.

It is deemed more desirable for a student to do work of a high grade of excellence with a normal class load than to take extra subjects with mediocre success.

Students may make application for an extra study by securing an application blank from the Chairman of the Extra Study Committee, filling out the same, and filing the application with the chairman of the committee. Only in exceptional cases is permission granted to carry extra studies during the first term of residence.
TRANSFER OF CREDITS—MARKING SYSTEM

ENTRANCE WITH ADVANCED CREDITS

Advanced credit is allowed for work done in other normal schools and colleges to the extent to which the applicant's record shows that such work is the equivalent of courses offered in the Western State Normal School. Application for advanced standing, accompanied by credentials, should be made to the Registrar of the Western State Normal School within two weeks of the time that a student first enters the Normal.

TRANSFER OF CREDITS

Students presenting credits from other institutions will have them evaluated according to the following rules, adopted by the Michigan State Board of Education in August, 1922:

1. Candidates for a Limited or a Life Certificate who offer credit from other Michigan normal schools shall earn at least four units of credit in residence in the institution from which the certificate is sought. If fewer than eight units remain to be done with the institution granting the certificate, all shall be done in residence; if eight or more units are earned with the institution on approval of the faculty, two of the last six may be done in extension or by correspondence.

2. Candidates for a Limited Certificate or for a Life Certificate in a two-year curriculum who offer credits from institutions other than Michigan normal schools shall earn at least eight units of credit with the institution from which the certificate is sought, six of which shall be done in residence. On approval of the faculty the last two units may be done in extension or by correspondence. This rule does not apply to students from county normal schools.

3. Graduates from county normal schools shall be given eight units of credit toward a Limited Certificate and ten toward a Life Certificate, provided that said graduates shall have completed a four-year high school course preliminary to taking the county normal work. The remaining six units necessary for a Limited Certificate must be done in residence. Of the remaining fourteen necessary for a Life Certificate in a two-year curriculum, twelve must be done in residence. On the approval of the faculty the last two units required for either the Limited or Life Certificate may be done by extension or by correspondence.

4. Candidates for a degree shall earn twelve units of credit in residence with the institution from which the degree is sought. Credits granted through the State Department of Public Instruction may be applied on a State Life Diploma curriculum. The resident requirements for this curriculum are the same as for any two year curriculum except that four units of work must have been earned in residence since June 25, 1924.

MARKING SYSTEM

Each course receives one grade, which combines the results of class work and all tests and is lowered by absences.

Grades are indicated by letters, to each of which is given a certain value in "honor points."

<table>
<thead>
<tr>
<th>Grade</th>
<th>Significance</th>
<th>Honor Points (Per 4 term hours credit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>3</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>Fair</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>Passing</td>
<td>0</td>
</tr>
<tr>
<td>E</td>
<td>Failure†</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
<td></td>
</tr>
</tbody>
</table>

The mark of I means that the student has not finished the work of the course, through illness, unsatisfactory work, or some other clause, and may be given opportunity to complete it.
I's must be removed during the next succeeding term (except when the student does not return, and then within one year) or they automatically become E's.

The mark of E means that the student has failed. E's and W's can be removed only by taking again all the work involved.

Withdrawal from Courses

The mark of W will be given only when the Registrar issues an official Drop Slip. If a student withdraws from a class without the Registrar's permission, a mark of E will be given.

Standard for Graduation

The minimum number of honor points required of each student for graduation equals the number of subjects carried. (Normally a student in a two-year curriculum carries 24 subjects. He should earn at least 24 honor points. If he should fail in one subject, he would need to earn 25 honor points; if he should fail in three subjects he would need to earn 27 honor points.)
CERTIFICATES AND DEGREES

All applicants for a certificate to teach must be at least eighteen years of age and must be citizens of the United States, or have signified their intention of becoming citizens by having taken out the first papers.

Applications for certificates and degrees must be filed with the Registrar by the third week of the term in which it is desired that they be granted.

The State Board of Education through Western State Normal School grants the teacher's certificate and the Degree of Bachelor or Arts or Bachelor of Science as follows:

LIFE CERTIFICATE

Requirements:
Applicant must have completed one of the curricula offered in Western State Normal School, which curriculum shall require not less than two years of work (96 term hours credit) in advance of the high school. (Details of all curricula are given on pages 40-59.)

Duration and Validity:
The Normal Life Certificate shall be valid in all schools of the State, provided a copy of the certificate shall have been filed in the office of the legal examining officer of the county or city in which the holder is to teach.

LIMITED CERTIFICATE

Requirements:
Applicant must have completed a curriculum requiring forty-two weeks of work (56 term hours credit) in advance of the high school.

Duration and Validity:
The Limited Certificate shall be valid in all schools of the State for three years, provided a copy of the certificate shall have been recorded in the office of the legal examining officer of the county or city in which the holder is to teach.

REQUIRED PROFESSIONAL TRAINING

The Western State Normal School will afford every convenience for beginning teachers and will co-operate to the fullest extent with the State Department of Public Instruction and the county boards of school examiners in carrying out the provisions of the law regarding the professional training of all public school teachers.

The following statement by the Superintendent of Public Instruction, set forth in Bulletin No. 14 of the Department of Public Instruction, is clear and specific about the certification of teachers by county boards of examiners after September 1, 1925:

Summary of the Law

The law provides that after September 1, 1925, a person to receive a county certificate must have had at least one year of professional training beyond the completion of an approved four-year high school course.

Exceptions to this requirement for one year of professional training:
1. Any teacher who can furnish proof to the Superintendent of Public Instruction of having taught five years previous to the taking effect of the law in August, 1921, the last three years of which were continuous, may have a renewal of a certificate without completing the professional training, if such teacher has been continuously and successfully teaching and has the average standing mentioned in the next paragraph.

2. Any teacher holding a third grade certificate, a second grade certificate, or a first grade certificate on September 1, 1925, renewable because the teacher has taught continuously since the last certificate was received and has attained
an average standing of at least eighty-five per cent in all subjects covered in two or more previous examinations may have a third grade certificate and a second grade certificate renewed by completing twelve weeks of professional work amounting to sixteen term hours' credit, and may have a first grade certificate renewed by completing eighteen weeks of professional training amounting to twenty-four term hours' credit.

Attendance at a reputable university, college, or normal school during the regular school year shall be counted in lieu of teaching for the same period, when determining continuous teaching experience necessary for renewals of certificates.

Certificates Issued

A person who completes one year or more of professional training is granted a certificate as follows:

**Third Grade.** A person who completes one year of professional training is granted a third grade certificate by the county board of school examiners.

**Second Grade.** A person who completes one and one-third years of professional training is granted a second grade certificate by the county board of school examiners.

**First Grade.** A person who completes one and two-thirds years of professional training is granted a first grade certificate by the county board of school examiners.

Each of the above three grades of county certificates issued upon one year or more of professional training is renewable without further professional training, but no person may receive more than three third grade certificates, including renewals of third grades.

Renewal of County Certificates Issued Previous to September 1, 1925.

Any person who is doing work for the renewal of a county certificate issued previous to September 1, 1925, should select subjects from the list of subjects named for one year of professional training until such person has completed the twelve subjects required for a year of professional training. Any such person, however, will not be required to select the six required subjects named before he or she may pursue any of the nine subjects given as electives.

The requirements for one year of professional training are given on page 55.

**BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES**

The degree of Bachelor of Arts or Bachelor of Science is conferred by Western State Normal School upon the completion of one of the four-year curricula outlined on pages 56-59.

**CREDIT RELATIONS WITH COLLEGES AND UNIVERSITIES**

Graduates from the two-year curricula usually are granted junior standing in colleges and universities and are able to fulfill the requirements for a degree by an additional two years of work. Senior standing usually is granted to graduates of the three-year curricula. A student who desires to earn a life certificate in the Normal School, and then complete the work for a degree in some college or university, should plan his work with the requirements of the particular institution in mind.

Admission to the graduate schools is granted to students completing a four-year curriculum who have made their elections of courses conform to the requirements of such schools. Western State Normal School is a member of the American Association of Teachers Colleges.
THE CURRICULA

The curricula in Western State Normal School are planned to prepare teachers for the different departments and various phases of public school work, and also to give students who are preparing to teach, opportunity for general higher education. Recognizing that the prospective teacher should have some opportunity to adapt his education to his peculiar ability or personal ambition, the faculty of Western Normal, in outlining curricula sufficiently flexible to prepare teachers for both general and special school work, has made provision for students to exercise individual preference in elective work. A prospective student should study carefully the curricula as outlined that he may understand clearly the purposes of each. He should choose the curriculum for which he considers himself best fitted.

Life Certificate Curricula

Western State Normal School offers several curricula leading to the Normal Life Certificate. They are designed to prepare teachers for different grades and special kinds of public school work. These curricula require from two to four years (36 weeks each) of work beyond the four-year high school. The school year is divided into three terms of twelve weeks each and a Summer session of six weeks. A year's work consists of twelve units (48 term hours).

SIGNIFICANCE OF COURSE NUMBERS

Unless otherwise noted subjects numbered
1–99 inclusive are reserved for high school students
100–199 inclusive are intended for freshmen
200–299 inclusive are not open to freshmen
300–399 inclusive are open only to juniors and seniors
400–499 inclusive are open only to seniors.

The various consecutive terms in a given year subject are designated by the letters A, B, and C.

When courses of instruction are offered by extension, to the regular number of the course Cl is added to indicate class work, or Co to indicate correspondence work.
ART CURRICULUM  
(Three years in length) 

For the Preparation of Teachers and Supervisors of Art  

<table>
<thead>
<tr>
<th>Group</th>
<th>Course Description</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Psychology and Education:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introductory Psychology 101</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Educational Psychology 102</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Principles of Teaching 101</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Teaching 201, 202, 203</td>
<td>12 term hours</td>
</tr>
<tr>
<td>2.</td>
<td>Rhetoric 104 A, B, C</td>
<td>9 term hours</td>
</tr>
<tr>
<td>3.</td>
<td>Foreign Languages, Speech, and English in addition to Group 2</td>
<td>12 term hours</td>
</tr>
<tr>
<td>4.</td>
<td>History, Economics, Political Science, and Sociology</td>
<td>12 term hours</td>
</tr>
<tr>
<td>5.</td>
<td>Science and Mathematics</td>
<td>12 term hours</td>
</tr>
<tr>
<td>6.</td>
<td>Art:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Teachers' Art 102</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Industrial Art 103</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Elementary Design 109</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Mechanical Drawing 112</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Figure Drawing 205</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Art Observation 206</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Demonstration Drawing 207</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Art Composition 208</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>History and Appreciation of Art 211 A, B</td>
<td>8 term hours</td>
</tr>
<tr>
<td></td>
<td>Commercial Art 214</td>
<td>4 term hours</td>
</tr>
<tr>
<td></td>
<td>Art Supervision 313</td>
<td>4 term hours</td>
</tr>
<tr>
<td>7.</td>
<td>At pleasure</td>
<td>27 term hours</td>
</tr>
</tbody>
</table>

(Not more than 8 term hours may be elected in Art)  

8. Non-credit courses, required of all students:  
   Library Methods.  
   Penmanship.  
   Physical Education:  
   - For men—five terms, including course 106.  
   - For women—six terms, including courses 106 and 202.  

Minimum term hours required—144.  

Note.—1. The department reserves the right to take creditable work from the students for purposes of exhibition.  
   1. One unit of teaching should be deferred until the third year.  
   3. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 5, and 7.  
   4. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
ART AND MUSIC CURRICULUM
(Three years in length)

For the Preparation of Teachers of Art and Music

1. Psychology and Education:
   - Introductory Psychology 101 ................................ 4 term hours
   - Educational Psychology 102 ................................ 4 term hours
   - Principles of Teaching 101 ................................ 4 term hours
   - Teaching 201, 202 ........................................... 8 term hours

2. Rhetoric 104 A, B, C ........................................... 9 term hours

3. Foreign Languages, Speech, and English in addition to
   Group 2 .......................................................... 12 term hours

4. History, Economics, Political Science, and Sociology .......... 12 term hours

5. Science and Mathematics ......................................... 12 term hours

6. Art:
   - Teachers' Art 102 ............................................ 4 term hours
   - Industrial Art 103 .......................................... 4 term hours
   - Elementary Design 109 ...................................... 4 term hours
   - Mechanical Drawing 112 .................................... 4 term hours
   - Figure Drawing 205 ......................................... 4 term hours
   - Art Observation 206 ........................................ 4 term hours
   - Demonstration Drawing 207 ................................ 4 term hours
   - Art Composition 208 ........................................ 4 term hours
   - History and Appreciation of Art 211B ..................... 4 term hours
   - Art Supervision 313 ........................................ 4 term hours

7. Music:
   - Fundamentals of Music 101 A, B, C ........................ 12 term hours
   - Voice Culture 116 A, B ..................................... 4 term hours
   - Music Education 206 A, B, C ................................ 12 term hours
   - Harmony 209 A, B ............................................ 8 term hours
   - Modern Composers 212B .................................... 4 term hours
   - or Musical Appreciation 212C ................................ 4 term hours

8. Non-credit courses required of all students:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms, including course 106.
     - For women—six terms, including courses 106 and 202.

Minimum term hours required—145.

Note.—1. The department reserves the right to take creditable work from the
   students for the purpose of exhibition.
2. Two years of vocal or instrumental ensemble are required.
3. In as far as possible, consecutive courses should be elected in ful-
  fillment of the requirements of Groups 3, 4, and 5.
4. If it is desired that the work of this curriculum count as three years
   toward a degree, elections must be made in conformity with the
   requirements of a degree curriculum.
5. One unit of teaching should be deferred until the third year.
COMMERCE CURRICULUM
(Three years in length)

For the Preparation of Teachers of Commerce

1. Education and Psychology:
   - Introductory Psychology 101 .................. 4 term hours
   - Educational Psychology 102 .................... 4 term hours
   - Principles of Teaching 101 ................. 4 term hours
   - Teaching 201, 202 ............................. 8 term hours

2. Rhetoric 104 A, B, C .......................... 9 term hours

3. Economics:
   - Principles of Economics 201 A, B .......... 8 term hours
   - Financial Organization 202 .................. 4 term hours
   - Public Finance 301 A, B, C .................. 6 term hours
     or
   - Corporations 303 A, B, C .................... 6 term hours
   - General Business Administration 302 A, B .. 6 term hours
     or
   - Marketing 304 A, B ........................... 6 term hours

4. Science and Mathematics:
   - Mathematics 100 A, B, C, or 103 A, B, C, or
     104 A, B, C .................................. 12 or 15 term hours
   - Geography 209, 210 .......................... 8 term hours

5. Commerce:
   - Shorthand and Typewriting 102 A, B, C .... 12 term hours
   - Accounting 201 A, B, C ....................... 12 term hours
   - Accounting Theory 301 ........................ 4 term hours
   - Business Law 304 A, B, C .................... 9 term hours
   - Problems of Secondary Commercial Education 305 3 term hours

6. At pleasure:
   - From Department of Commerce ................ 4 term hours
   - From any departments except Commerce and
     Economics ...................................... 24 or 27 term hours

7. Non-credit courses required of all students:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     For men—five terms, including course 106.
     For women—six terms, including courses 106 and 202.

Minimum term hours required—144.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Group 6.
2. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
3. One unit of teaching should be deferred until the third year.
EARLY ELEMENTARY CURRICULUM

(Two years in length)

For the Preparation of Teachers of the Kindergarten and Grades 1 and 2

1. Psychology and Education:
   - Introductory Psychology 101 ........................................... 4 term hours
   - Educational Psychology 102 .......................................... 4 term hours
   - Psychology of Reading 104 ........................................... 4 term hours
   - Principles of Teaching 101 ......................................... 4 term hours
   - Teaching 201, 202 ..................................................... 8 term hours

2. Early Elementary Education:
   - Early Elementary Education 101 A, B, C ...................................... 12 term hours
   - Games and Rhythms 201 ................................................ 2 term hours
   - Stories for Childhood 202 ........................................... 2 term hours

3. Rhetoric 104 A, B, C ............................................................. 9 term hours

4. Foreign Languages, Speech, and English in addition to
   - Group 3 ........................................................................... 8 term hours

5. History or Sociology .............................................................. 12 term hours

6. Science and Mathematics:
   - Nature Study 131 ............................................................. 4 term hours
   - Elective ............................................................................ 8 term hours

7. Music 104 ............................................................................. 4 term hours

8. Art:
   - Art 102 ............................................................................ 4 term hours
   - Illustrative Handwork 107 .............................................. 4 term hours

9. At pleasure ............................................................................ 3 term hours

10. Non-credit courses required of all students.
    - Library Methods.
    - Penmanship.
    - Six terms of Physical Education which must include courses 106 and 202.

Minimum term hours required—96.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 4 and 5.
2. Attention is called to the following courses:
   - Demonstration Drawing 207.
   - Literature for Children 103.
   - Lyric Poetry 111.
   - Mythology 108.
   - Geography for Primary Grades 103.
   - Arithmetic 101.
   - Home Management 208.
   - Nutrition 206.
   - Educational Measurements 206.
LATER ELEMENTARY CURRICULUM
(Two years in length)

For the Preparation of Teachers of Grades 3, 4, 5, and 6

1. Psychology and Education:
   - Introductory Psychology 101 ........................................ 4 term hours
   - Educational Psychology 102 ........................................... 4 term hours
   - Principles of Teaching 101 .......................................... 4 term hours
   - Teaching 201, 202 .................................................... 8 term hours

2. Rhetoric 104 A, B, C .................................................. 9 term hours

3. Foreign Languages, Speech, and English in addition to
   Group 2 ........................................................................... 8 term hours

4. History .............................................................................. 12 term hours

5. Science and Mathematics:
   - Arithmetic 101 .................................................................. 4 term hours
   - Geography 101 A, B .......................................................... 8 term hours
   - Nature Study 131 or 132 ................................................. 4 term hours

6. Music 105 ............................................................................ 4 term hours

7. Art 102 ................................................................................ 4 term hours

8. At pleasure .......................................................................... 23 term hours
   (At least twelve term hours must be elected in work directly related to
   subjects taught in the later elementary grades. These courses will be
   in addition to any courses in that subject elected in fulfillment of the
   other requirements.)

9. Non-credit courses required of all students:
   - Library Methods.
   - Penmanship.
   - Six terms of Physical Education which must include courses 106 and 202.

Minimum term hours required—96.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 8.
2. Attention is called to the following courses:
   - Demonstration Drawing 207.
   - Literature for Children 103.
   - Lyric Poetry 111.
   - Mythology 108.
   - Story Telling 111.
   - Hygiene 112.
   - Health Education 215.
   - The Teaching of Geography 212.
   - The Teaching of History 202.
   - Psychology of Reading 104.
   - Educational Measurements 206.
JUNIOR HIGH SCHOOL CURRICULUM

(Two years in length)

For the Preparation of Teachers of Grades 7, 8, and 9

1. Psychology and Education:
   Introductory Psychology 101 ........................................ 4 term hours
   Educational Psychology 102 ........................................... 4 term hours
   Principles of Teaching 101 ........................................... 4 term hours
   Teaching 201, 202 ...................................................... 8 term hours

2. Rhetoric 104 A, B, C .................................................. 9 term hours

3. One major sequence, consisting of from 16 to 24 term hours, including
   4 term hours of teaching in that subject.

4. One minor sequence, consisting of 16 term hours, in another subject,
   including 4 term hours of teaching.

5. Two sequences, other than the major and minor, consisting of 12 term
   hours each.

6. The remaining units are to be taken in groups of three or miscellaneously
   with the consent of the adviser.

7. Non-credit courses required of all students:
   Library Methods.
   Penmanship.
   Physical Education:
      For men—five terms, including course 106.
      For women—six terms, including courses 106 and 202.

Minimum term hours required—96.

Note.—1. A sequence consists of consecutive, coherent courses in a given
subject.
2. All elections for major and minor sequences must be made with the
approval of a member of the department in which the work is to
be taken.
3. A major sequence may not be elected in a field of work for which a
special curriculum is provided. For example, a student may not
enroll in the Junior High School curriculum and specialize in such
subjects as Art or Commerce.
4. In determining the courses to be taken, in fulfillment of the require-
ments of Groups 3, 4, 5, 6, the student should hold in mind that
there is demand for teachers qualified to teach the following groups
of subjects:
   Science (geography, general science, nature study, physiology
   and hygiene, elementary botany, elementary biology, agricul-
   ture), history.
   English, geography, history.
   Mathematics, geography, other sciences (enumerated above).
   English, geography, other sciences (enumerated above).
   English, history, science (enumerated above).
   Geography, history, other sciences (enumerated above).
   Music and any two of these subjects.
5. Attention is called to the following courses:
   Art 101.
   General Science 104.
   Teaching of Junior High School Mathematics 102.
   Genetic Psychology 203.
   Junior High School Education 201.
   Extra-curricular Activities 220.
   Educational Measurements 206.
SENIOR HIGH SCHOOL CURRICULUM
(Two years in length)

For the Preparation of Teachers of Grades 10, 11, and 12

1. Psychology and Education:
   - Introductory Psychology 101 ........................................ 4 term hours
   - Educational Psychology 102 ........................................ 4 term hours
   - Principles of Teaching 101 .... 4 term hours
   - Teaching 201, 202 ................................................. 8 term hours
   
2. Rhetoric 104 A, B, C ................................................ 9 term hours

3. A major sequence of 28 term hours including 4 term hours of teaching.

4. A minor sequence of 16 to 24 term hours in another subject, including 4 term hours of teaching.

5. A sequence, other than the major or minor, consisting of 12 term hours.

6. The remaining units should be taken in groups of 12 term hours of consecutive courses in subjects not chosen as a major or minor sequence, or miscellaneously with the consent of the adviser.

7. Non-credit courses required of all students:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms, including course 106.
     - For women—six terms, including courses 106 and 202.

Minimum term hours required—96.

Note.—1. A sequence consists of consecutive, coherent courses in a given subject.

2. All elections for major and minor sequences must be made with the approval of a member of the department in which the work is to be taken.

3. A major sequence may not be elected in a field of work for which a special curriculum is provided. For example, a student may not enroll in the Senior High School curriculum and specialize in such subjects as Art or Commerce.

4. In making elections, it should be held in mind that graduates in this curriculum obtain positions in the small high schools only, and will be expected to teach at least four subjects.

5. Students who desire to teach in the high schools of rural agricultural, consolidated, and village schools are referred to the curriculum given on page 52.

6. Attention is called to the following courses:
   - Genetic Psychology 203.
   - Educational Measurements 206.
   - Extra-curricular Activities 220.
# HOME ECONOMICS CURRICULUM

(Three years in length)

For the Preparation of Teachers and Supervisors of Home Economics

1. Psychology and Education:
   - Introductory Psychology 101 ........................................ 4 term hours
   - Educational Psychology 102 ........................................ 4 term hours
   - Principles of Teaching 101 ........................................ 4 term hours
   - Teaching 201, 302 .................................................. 8 term hours

2. Rhetoric 104 A, B, C .................................................. 9 term hours

3. Foreign Languages, Speech, and English in addition to Group 2 ......................... 12 term hours

4. History, Economics, Political Science, and Sociology ...................................... 12 term hours

5. Science and Mathematics:
   - Hygiene 112 ......................................................... 4 term hours
   - Home Nursing 212 .................................................. 4 term hours
   - Chemistry 103 A, B, C ............................................ 12 term hours
   - Electives ............................................................ 12 term hours

6. Household Arts Design 106 .................................................. 4 term hours

7. Home Economics:
   - Clothing 101 .......................................................... 2 term hours
   - Foods 102 ............................................................. 2 term hours
   - Clothing 103 .......................................................... 4 term hours
   - Foods 104 ............................................................. 4 term hours
   - Clothing 205 .......................................................... 4 term hours
   - Nutrition 206 .......................................................... 4 term hours
   - Clothing 207 .......................................................... 4 term hours
   - Home Management 208 .............................................. 4 term hours
   - Home Economics Education 209 .................................. 4 term hours
   - Millinery 215 .......................................................... 4 term hours
   - Advanced Clothing 311 ............................................. 4 term hours
   - Advanced Foods 312 .................................................. 4 term hours

8. At pleasure ....................................................................... 11 term hours

9. Non-credit courses required of all students:
   - Library Methods.
   - Penmanship.
   - Six terms of Physical Education which must include courses 106 and 202.

**Minimum term hours required—144.**

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 5, and 8.

2. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
MANUAL ARTS CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Manual Arts

1. Psychology and Education:
   - Introductory Psychology 101 ........................................ 4 term hours
   - Educational Psychology 102 ....................................... 4 term hours
   - Principles of Teaching 101 ....................................... 4 term hours
   - Teaching 201, 202 .................................................. 8 term hours

2. Rhetoric 104 A, B, C .............................................. 9 term hours

3. Foreign Languages, Speech, and English in addition to
   Group 2 ..................................................................... 12 term hours

4. History, Economics, Political Science, and Sociology ....... 12 term hours

5. Science and Mathematics:
   - Applied Mathematics 112 ........................................... 4 term hours
   - Physics 160 .................................................................. 4 term hours
   - Electives ..................................................................... 12 term hours

6. Manual Arts:
   - Mechanical Drawing 111 A, B ..................................... 8 term hours
   - Household Mechanics 102A ....................................... 4 term hours
   - Advanced Benchwork 103A ....................................... 4 term hours
   - Wood Finishing 207 ................................................... 4 term hours
   - Sheet Metal 222 ....................................................... 4 term hours
   - Shop Organization 301 .............................................. 5 term hours
   - Electives ................................................................... 24 term hours

7. At pleasure (Not in Manual Arts) .................................. 18 term hours

8. Non-credit courses required of all students:
   - Library Methods.
   - Penmanship.
   - Five terms of Physical Education, including course 106.

Minimum term hours required—144.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 5, 7.

2. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.

3. Students who enter without high school physics must elect Physics 100 A, B, C.

4. Those who elect a year of either college physics or mathematics may substitute another subject for Applied Mathematics 112.

5. Woodshop 99 and Mechanical Drawing 99 are required of all students who have not had similar work in high schools.

6. Manual Arts students wishing to prepare to teach some work in Physical Education should elect Physical Education courses 101, 102, 103 the first year. Physical Education 121, 122, 123 should be elected the second year. Courses 118, 128, 213, 215, 219 should also be elected and may be taken in summer sessions. The courses above enumerated will total fifteen hours. A certain amount of field, floor, and track work, corresponding to laboratory work, will be required of all enrolled in each coaching course.

7. One unit of teaching should be deferred until the third year.
MUSIC CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Music

1. Psychology and Education:
   - Introductory Psychology 101 ......................................... 4 term hours
   - Educational Psychology 102 ........................................... 4 term hours
   - Principles of Teaching 101 ......................................... 4 term hours
   - Teaching 201, 202, 203 ............................................ 12 term hours

2. Rhetoric 104 A, B, C .................................................. 9 term hours

3. Foreign Languages, Speech, and English in addition to
   Group 2 ........................................................................... 8 term hours

4. History, Economics, Political Science, and Sociology ........ 8 term hours

5. Science and Mathematics .............................................. 8 term hours

6. Music:
   - Fundamentals of Music 101 A, B, C .................................. 12 term hours
   - Voice Culture 116 A, B, C, 216 A, B, C .......................... 12 term hours
   - Music Education 206 A, B, C ........................................ 12 term hours
   - Harmony 209 A, B, C .................................................. 12 term hours
   - History of Ancient and Medieval Music 212A .................... 4 term hours
   - Modern Composers 212B ............................................. 4 term hours
   - Musical Appreciation 212C .......................................... 4 term hours
   - Musical Composition and Analysis 320 A, B, C .................. 12 term hours
     (An elective in music may be substituted.)
   - Orchestration 331A ..................................................... 4 term hours

7. At pleasure (Not in Music) .............................................. 11 term hours

8. Non-credit courses required of all students:
   - Library Methods
   - Penmanship
   - Physical Education:
     For men—five terms, including course 106.
     For women—six terms, including courses 106 and 202.

Minimum term hours required—144.

Note.—1. Vocal or instrumental ensemble are required throughout the course.
2. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 5, and 7.
3. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
4. One unit of teaching should be deferred until the third year.
PHYSICAL EDUCATION FOR MEN CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Physical Education for Men and Boys

1. Psychology and Education:
   - Introductory Psychology 101 ........................................ 4 term hours
   - Educational Psychology 102 ......................................... 4 term hours
   - Principles of Teaching 101 ........................................... 4 term hours
   - Teaching 201, 202, 203 ............................................... 12 term hours

2. Rhetoric 104 A, B, C .................................................. 9 term hours

3. Foreign Languages, Speech, and English in addition to Group 2 .................................. 12 term hours

4. History, Economics, Political Science, and Sociology ............................................. 12 term hours

5. Science:
   - General Biology 103 A, B ............................................. 8 term hours
   - Hygiene 112 ............................................................... 4 term hours
   - Anatomy 211 A, B ...................................................... 8 term hours
   - Physiology 211C ....................................................... 4 term hours

6. Physical Education:
   - History of Physical Education 107 .................................. 3 term hours
   - Gymnastic Theory 108 .................................................. 2 term hours
   - Baseball Technique 118 ................................................ 2 term hours
   - General Athletics and Games 121A ................................ 1 term hour
   - Elementary School Gymnastics 121B ................................ 3 term hours
   - Outdoor Games 121C .................................................... 2 term hours
   - Fundamental Football 128 ............................................. 1 term hour
   - Football Technique 213 ................................................ 2 term hours
   - Basketball Technique 215 ............................................. 2 term hours
   - Track Technique 219 .................................................... 2 term hours
   - Physical Education 221 A, B, C .................................... 6 term hours
   - Swimming 227 ............................................................ 1 term hour
   - Anthropometry and Physical Diagnosis 310 ....................... 4 term hours
   - First Aid and Massage 312 .......................................... 4 term hours
   - Physical Education Administration 317 ........................... 4 term hours
   - Physical Education 321 A, B, C .................................... 6 term hours
   - Scoutcraft 332 .......................................................... 4 term hours

7. At pleasure (Not in Physical Education) ......................................................... 14 term hours

8. Non-credit courses:
   - Library Methods.
   - Penmanship.
   - Physical Education—five terms.

Minimum term hours required—144.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, and 7.
2. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
3. One unit of teaching should be deferred until the third year.
PHYSICAL EDUCATION FOR WOMEN CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Physical Education for Women and Girls

1. Psychology and Education:
   - Introductory Psychology 101 ........................................ 4 term hours
   - Educational Psychology 102 ......................................... 4 term hours
   - Principles of Teaching 101 .......................................... 4 term hours
   - Teaching 201, 202, 203 .............................................. 12 term hours

2. Rhetoric 104 A, B, C .................................................. 9 term hours

3. Foreign Languages, Speech, and English in addition to Group 2:
   - Fundamentals of Speech 101A ....................................... 4 term hours
   - Elective .................................................................... 12 term hours

4. History, Economics, Political Science, and Sociology .................. 12 term hours

5. Science:
   - Biology 103 A, B ........................................................ 8 term hours
   - Hygiene 112 ................................................................ 4 term hours
   - Anatomy 211 A, B ...................................................... 8 term hours
   - Physiology 211C ....................................................... 4 term hours
   - Home Nursing 212 ..................................................... 4 term hours
   - School Health Problems 214 ........................................ 4 term hours

6. Physical Education:
   - Swedish Theory and Practice 112 .................................... 2 term hours
   - Play Ground Organization 119 ...................................... 3 term hours
   - Methods 217 ................................................................ 4 term hours
   - Rhythmic Plays and Singing Games 218 ............................. 2 term hours
   - Applied Anatomy 220 .................................................. 4 term hours
   - Theory of Athletics 222 .............................................. 2 term hours
   - Theory of Games 223 ................................................... 3 term hours
   - Theory of Swimming 224 ............................................ 2 term hours
   - History and Administration of Physical Education 321 ......... 4 term hours
   - Community Recreation, Scouting, Campfire 322 ................. 4 term hours
   - Individual Gymnastics 323 .......................................... 4 term hours
   - Advanced Coaching Technique 324 ................................ 4 term hours

7. At pleasure with consent of adviser (Not in Physical Education) ...... 13 term hours

8. Non-credit courses:
   - Library Methods.
   - Penmanship.
   - Physical Education 110 A, B, C; 111; 113; 125 A, B, C; 126 A, B, C;
     210 A, B, C; 213 A, B, C; 225 A, B, C; 226 A, B, C; 310 A, B; 311;
     313 A, B, C.

Minimum term hours required—144.

Note.—1. In as far as possible consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, and 7.
2. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
3. One unit of teaching should be deferred until the third year.
RURAL HIGH SCHOOL CURRICULUM
(Two years in length)

For the Preparation of Teachers of Rural High Schools

1. Psychology and Education:
   - Introductory Psychology 101 ............................................. 4 term hours
   - Educational Psychology 102 ............................................. 4 term hours
   - Principles of Teaching 101 ............................................. 4 term hours
   - Teaching 201, 202 ......................................................... 8 term hours
   - Rural Education 201 A, B, C ............................................ 12 term hours

2. Rhetoric 104 A, B, C ....................................................... 9 term hours

3. A major sequence of 28 term hours including 4 term hours of teaching.

4. A minor sequence of 16 term hours including 4 term hours of teaching.

5. At pleasure ................................................................. 11 term hours

6. Non-credit courses required of all students:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms, including course 106.
     - For women—six terms, including courses 106 and 202.

Minimum term hours required—96.

Note.—1. A sequence consists of consecutive, coherent courses in a given subject.
2. All elections for major and minor sequences must be made with the approval of a member of the department in which the work is to be taken.
3. Major and minor subjects are available in science, mathematics, literature, history, and social science, and in agriculture, home economies, and manual arts. Eleven term hours of free electives enables the student to choose among such professional subjects as secondary school administration, problems of county normal teachers and rural supervisors, genetic psychology, educational measurements, mental tests, school supervision, curriculum, history of education, or additional academic subjects.
4. Mature second year students who have had sufficient teaching experience and are able to do independent study, may elect work in rural education in the seminar course for third and fourth year students with the consent of the instructor. This course meets two hours per week.
5. Attention is called to the following courses:
   - Genetic Psychology 203.
   - Educational Measurements 206.
   - Extra-curricular Activities 220.
RURAL ELEMENTARY CURRICULUM

(Two years in length)

For the Preparation of Teachers of Rural Elementary Schools

1. Psychology and Education:
   - Introductory Psychology 101 ........................................... 4 term hours
   - Educational Psychology 102 ............................................ 4 term hours
   - Principles of Teaching 101R ........................................... 4 term hours
   - Teaching 201, 202 ..................................................... 8 term hours
   - Curriculum 101 ......................................................... 4 term hours
   - Rural Education 201 A, B, C ........................................ 12 term hours

2. Rhetoric 104 A, B, C ..................................................... 9 term hours

3. Foreign Languages, Speech, and English in addition to
   - Group 2 ........................................................................ 12 term hours

4. History, Economics, Political Science, and Sociology .............. 12 term hours

5. Science and Mathematics:
   - Arithmetic 101 ............................................................. 4 term hours
   - Nature Study 131, 132, or Agriculture 141 ....................... 4 term hours
   - Geography 101 A, B ..................................................... 8 term hours

6. Music 106 ......................................................................... 4 term hours

7. Art 102 ............................................................................. 4 term hours

8. At pleasure ........................................................................ 3 term hours

9. Non-credit courses required of all students:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms, including course 106.
     - For women—six terms, including courses 106 and 202.

Minimum term hours required—96.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4.

2. Attention is called to the following courses:
   - Agriculture 142, 143, 144.
   - Literature for Children 103.
   - Lyric Poetry 111.
   - Mythology 108.
   - Story Telling 111.
   - Hygiene 112.
   - Health Education 215.
   - The Teaching of Geography 212.
   - The Teaching of History 202.
   - Psychology of Reading 104.
LIMITED CERTIFICATE CURRICULUM
(One year and one Summer session in length)

A Shorter Curriculum for the Preparation of Teachers of Rural Elementary Schools

The Limited Certificate curriculum requires a year and a Summer session of work beyond the four-year high schools, and leads to a certificate good for three years in Michigan schools.

Students in the Limited Certificate curriculum are urged to elect three consecutive units, with a view of taking any Life Certificate curriculum which they may decide to enter when they return for their second year.

1. Psychology and Education:
   - Introductory Psychology 101 .................................................. 4 term hours
   - Principles of Teaching 101R .................................................. 4 term hours
   - Curriculum 101 ..................................................................... 4 term hours
   - Teaching 101 ........................................................................ 4 term hours

2. English Composition 101A .......................................................... 4 term hours

3. Sociology 103 .......................................................................... 4 term hours

4. Teachers' Art 102 ..................................................................... 4 term hours

5. Music 106 ............................................................................... 4 term hours

6. Electives (selected from the following) ......................................... 24 term hours
   - Literature for Children 103 ...................................................... 4 term hours
   - Psychology of Reading 104 ....................................................... 4 term hours
   - American History 101 A, B, or C ............................................. 4 term hours
   - Geography 101A ................................................................... 4 term hours
   - Arithmetic 101 ........................................................................ 4 term hours
   - Hygiene 112 ........................................................................... 4 term hours
   - Nature Study 131 or 132 .......................................................... 4 term hours
   - Agriculture 141 .................................................................... 4 term hours

7. Non-credit courses required of all students:
   - Library Methods.
   - Penmanship.
   - Three terms of Physical Education which must include course 106.

**Minimum term hours required—56.**

**Note.—1.** A student may elect any six of the courses listed in Group 6 or any three and three consecutive courses in one subject with a particular life certificate in view.

**2.** Agriculture is a year's work in the eighth grade in the latest edition of the State Course of Study. Students who have not had Agriculture in the high school should elect this subject or Nature Study as advised by the enroler,
ONE YEAR OF PROFESSIONAL TRAINING

The Curriculum Formulated by the State Department of Public Instruction for the Preparation of Teachers for Rural Elementary Schools.

(a) Each applicant must complete the following subjects:

- Psychology 101 ............................................... 4 term hours
- Observation and Teaching 101 ................................ 4 term hours
- Written English 101A ......................................... 4 term hours
- Hygiene 112 ..................................................... 4 term hours
- Agriculture 141 ............................................... 4 term hours
- Reading 104 ..................................................... 4 term hours
- Principles of Teaching 101R .................................. 4 term hours
- Curriculum 101 ................................................ 4 term hours

(b) Each applicant must complete a year's work by electing from this list of subjects:

- Art 102 ............................................................ 4 term hours
- Music 106 .......................................................... 4 term hours
- History 101 A, B, or C ......................................... 4 term hours
- Geography 101A ................................................ 4 term hours
- Arithmetic 101 .................................................. 4 term hours
- Grammar ......................................................... 4 term hours
- Rural Sociology 103 ............................................ 4 term hours
- Nature Study 131 ............................................... 4 term hours
- Psychology 102 ................................................ 4 term hours

(c) Non-credit courses required of each applicant:

- Penmanship.
- Physical Education, 2 terms.

Minimum term hours required—48.

Note.—1. "Four term hours" means one course for twelve weeks with four recitations per week or their equivalent.
2. Students are advised to take the second course in psychology in their second year.
3. Not more than one-sixth of the work required for one year of professional training may be done by correspondence or in extension classes.
4. The completion of one-half year of work in an approved four-year normal school, college, or university above a four-year approved high school course may be substituted for six of the above subjects as directed by adviser.
5. A person who has completed the work required for a year of professional training as outlined above and who desires a second or first grade certificate may select any subject that will be credited toward a life certificate or toward a degree in an approved university, college, or normal school.
BACHELOR OF ARTS

Four-Year Curriculum Leading to the Degree of Bachelor of Arts

At its regular meeting, March 29, 1918, the State Board of Education authorized the normal schools of the state to formulate a four-year curriculum leading to the Bachelor's degree. The curriculum is the same for all of the normal schools of Michigan, and it is possible for students in many of these curricula to plan their work so that it will count as part credit toward the degree. However, the entrance requirements for the four-year curriculum are more rigidly prescribed than for the Life Certificate curricula, and candidates for a degree must satisfy these entrance requirements.

Students may enter the institution to begin or continue their work for the degree at the beginning of any regular term.

General Requirements for Admission.

Admission to the Western State Normal School as a candidate for the degree of Bachelor of Arts may be gained only by certificate or by examination. Fifteen units of high school work are required for admission, a unit meaning the equivalent of five recitations a week in one subject for one year of at least thirty-six weeks. Two or three hours of laboratory, drawing, or shop work will be counted as equivalent to one recitation.

Applicants who offer certificates of graduation from high schools accredited by the University of Michigan or the State Department of Public Instruction will be admitted without examination.

Applicants for admission from non-accredited high schools or whose entrance credits are in any way deficient, will be examined under the direction of the Entrance Requirements Committee. Details concerning these examinations may be obtained from the Registrar.

Subjects Required for Admission*

A high school graduate who wishes to enter Western State Normal School with a view of securing the degree of Bachelor of Arts must qualify according to the following scheme. He must have had

- English ........................................ 3 units
- Foreign Language ................................ 2 units
- Mathematics (Algebra or Geometry) ............ 2 units
- Science ........................................ 1 unit
- History, Civics, and Economics ............... 2 units

Subjects Accepted for Admission

He must present a total of 15 credits (including those just noted) selected from the following list:

- English ........................................ 3 or 4 units
- Greek ......................................... 2 or 3 units
- Latin ......................................... 2, 3, or 4 units
- French ......................................... 2, 3, or 4 units
- Spanish ....................................... 2, 3, or 4 units
- History ....................................... 1, 2, or 3 units
- Algebra ....................................... 1, 1½, or 2 units
- Geometry ..................................... 1 or 1½ units

*See new Entrance Requirements, pages 32-33.
THE CURRICULA

Trigonometry ........................................... ½ unit
Physics .................................................. 1 unit
Chemistry ............................................... 1 unit
Physiology ............................................. ½ unit
Geology .................................................. ½ unit
Botany ................................................... ½ or 1 unit
Zoology .................................................. ½ or 1 unit
Physiography .......................................... ½ or 1 unit
Elementary Economics ................................. ½ unit
Agriculture ............................................. 1 or 2 units
Household Arts ......................................... 1 or 2 units
Drawing .................................................. ½ or 1 unit
Manual Arts .............................................. 1 or 2 units
Commercial Branches .................................. 1 or 2 units
General Science ........................................ ½ unit

Requirements for the Degree of Bachelor of Arts

The degree of Bachelor of Arts and a Teacher's Life Certificate will be granted to students upon satisfactory completion of the curriculum outlined below. The work extends over a period of four years of thirty-six weeks each, and presupposes the completion of a four-year standard high school course as described under Requirements for Admission. A term hour of work represents a course of instruction in a single subject continuing for twelve weeks and having one class-hour a week.

Two hours of laboratory work will count as one class-hour. The requirement for graduation with this degree is distributed as follows:

Group 1 English Composition and Rhetoric .................. 12 term hours

Group 2 History, Political Science, Economics, Sociology, Philosophy ........................................ 20 term hours

Group 3 Biology, Chemistry, Geography, Geology, Physics, Mathematics, Astronomy ....................... 24 term hours

Group 4 Ancient Languages, Modern Languages, English Language and Literature .......................... 24 term hours

The remaining units may be elected from the courses regularly offered by the various departments, subject to the following restrictions:

1. Courses must be elected so that the requirements in some one of the Life Certificate curricula are fully satisfied.
2. Not more than 64 term hours may be taken in any one department.
3. Courses counted in Group 1 cannot be counted in Group 4.
4. Not more than a total of 64 term hours may be counted from the following departments: Music, Art, Home Economics, Commerce, Industrial Arts, and Physical Education. Credits in these departments counted toward a degree must be earned in courses generally recognized as of college grade.
5. At least two-thirds of the work taken in residence beyond the second year must be in courses not open to first-year students, and no candidate will be recommended for the A.B. degree who has spent less than one year at the Western State Normal School and who has not been in residence during the term next preceding the time of his graduation.

Minimum term hours required—192.
BACHELOR OF SCIENCE

Four-Year Curriculum Leading to the Degree of Bachelor of Science

Requirements for Admission

The requirements for admission to the Bachelor of Science curriculum are the same as for Bachelor of Arts curriculum (pages 56-57) except that, prior to September, 1928,* the option is granted of presenting, in place of two units of foreign language, two units chosen from the departments of mathematics, natural science, or social science.

Requirements for the Degree of Bachelor of Science

The degree of Bachelor of Science and a Teacher's Life Certificate will be granted upon satisfactory completion of the curriculum outlined below. The work extends over a period of twelve terms of twelve weeks each, and presupposes the completion of a four-year standard high school course as described under Requirements for Admission. A term hour of work represents a course of instruction in a single subject, continuing for twelve weeks and having one class-hour a week. Two hours of laboratory work ordinarily count as one class-hour. The requirements for graduation with this degree are distributed as follows:

Group 1  English Composition and Rhetoric .......................... 12 term hours
Group 2  History, Political Science, Economics, and Sociology  12 term hours
Group 3  Psychology and Education:
  Introductory Psychology 101 ...................................... 4 term hours
  Educational Psychology 102 ........................................ 4 term hours
  Principles of Teaching 101 ........................................ 4 term hours
  Teaching 201, 202 .................................................. 8 term hours
  Elective ........................................................................ 4 term hours
Group 4  Ancient Languages, Modern Languages, or English
  in addition to Group 1 .................................................. 12 term hours
Group 5  Biology, Chemistry, Geography and Geology,
  Mathematics, and Physics ............................................. 12 term hours
Group 6  Art.
Group 7  Commerce.
Group 8  Home Economics
Group 9  Manual Arts.
Group 10  Music.
Group 11  Physical Education for Men.
Group 12  Physical Education for Women.

In addition to the minimum amount of work designated under groups 1 to 5 inclusive, the student must elect not more than sixty-four term hours from any of the departments of Group 5, or from any of the groups from six to twelve inclusive. The remaining credits to make up one hundred ninety-two term hours may be taken as free electives, subject to the approval of the chairman of the degree committee.

*See new Entrance Requirements, pages 82-33.
Courses must be elected so that the requirements in some one of the Life Certificate curricula are fully satisfied.

Credits counted toward a degree must be earned in courses generally recognized as of college grade. After June of 1928, candidates for the degree of Bachelor of Science must present a major sequence of thirty-six term hours of consecutive, coherent courses elected from a department or from related departments, and a minor sequence of twenty-four term hours of consecutive, coherent courses.

Isolated courses will not be counted toward satisfying the minimum requirements of groups 1 to 5. At least one-half of the work beyond the first year must be in courses not open to first-year students. No candidate will be recommended for the Bachelor of Science degree who has spent less than thirty-six weeks at the Western State Normal School and who has not been in residence during the term next preceding the time of his graduation.

Minimum term hours required—192.
THE EXTENSION DEPARTMENT

JOHN C. HOEKJE, Director

Extension courses are open to:

a. High school graduates, with or without experience, who wish to earn credits to apply on certificates or on degrees.

b. High school graduates who wish to take work purely for personal pleasure and profit with or without credit.

c. Mature persons who wish to pursue work for pleasure and profit with or without credit.

All instruction in Extension courses is given by members of the regular faculty of Western State Normal School. The work takes two forms:

a. Class work at a strategic center within range of the school which the instructor visits at frequent intervals (usually every week). Most classes meet on Saturday.

b. Carefully organized correspondence courses. Students who choose this type of work are directed in their study through outlines and personal letters from members of the faculty.

All subjects offered students in extension work both in class work and by correspondence are equivalent to corresponding subjects in residence, are presented to students in definite assignments, and count 4 term hours toward a life certificate. Certain courses count toward a degree of A.B. or B.S.

Class courses begin regularly each year about the middle of October and the first of February.

Correspondence courses may be begun at any time when the Normal is in session. Correspondence students are expected to complete a course within eighteen weeks, though a time extension to twenty-four weeks may be arranged for in exceptional cases. Work not completed in twenty-four weeks is considered dropped.

In all cases application for entrance to courses must be made to the Extension Department on special forms furnished by the Department. This may be done by letter or through a representative of the Normal authorized by the Department. Correspondence students must enroll with the Extension Department. When in residence all extension students enroll with the Director of Extension.

The schedule of fees follows:

Class tuition, per unit of credit ........................................ $10.00
Correspondence tuition, per unit of credit ............................ $10.00

Henceforth for students who enroll for extension work the following rules regarding the amount of such work permitted will apply:

1. A maximum of one-fourth of the required number of courses for a Life Certificate and for the A.B. or the B.S. degree may be earned by extension.

2. A maximum of two courses may be earned by extension by graduates of County Normals who are also graduates of four year high schools.

3. Not more than two extension courses can be applied toward the requirements for the Limited Certificate or toward the requirements to satisfy the 1925 Certification Law.

The Extension Department can be of service to you whether you wish to secure a Life Certificate or to earn credits applicable toward a degree. Interested persons who do not find answers to their questions here are requested to communicate with the Extension Director.
COURSES OF INSTRUCTION

ART

Any one of the following group of courses constitutes a major sequence in art:

a) 102, 103, 109
b) 102, 109, 206
c) 102, 205, 207
d) 102, 211 A, B
e) 102, 104, 105

101. Teachers' Art for Junior High School. 2 term hours. Offered each term. Mrs. Struble.

Lettering, color study, art appreciation, school room arrangement, arrange-
ment of bulletin board, pictures, flowers, correlation of the teaching of art with
geography, history, and English.

Note.—This course is open to Junior High School students only and credit will not be
given any one who has taken Teachers' Art 102.

102. Teachers' Art. 4 term hours. Offered each term. Miss Broemel, Miss Roberts, Miss Siedschlag, Miss Stevenson.

This course prepares the student to direct art activities in the grades. It
includes the study of design, lettering, color, drawing and paper cutting, together
with methods of presenting problems in art to children in the various grades.

Note.—Required of all Early Elementary, Later Elementary, Limited, Art, and Art and
Music students.

103. Industrial Art. 4 term hours. Offered each term. Miss Roberts.

Problems in handwork naturally evolving from a study of how the world
provides itself with food, clothing, shelter, utensils, or how it puts itself on record,
and of modes of transportation.

104. Lettering and Poster Making. 4 term hours. Fall term. Miss Stevenson.

Special problems for grades; poster work to advertise school activities. The
work has been planned to be of special help to students other than Art or Art
and Music students.

105. Modeling. 4 term hours. Spring term. Miss Stevenson.

A general course offered to students in all departments. Course includes the
designing, building and casting of pottery, use of potter's wheel and of the kiln
for firing, and modeling with clay.

106. Household Arts Design. 4 term hours. Offered each term. Miss Broemel.

Costume design and illustration will occupy the first six weeks. Individual
types, their needs, prevailing modes, creative costumes for pageants and plays
will be studied and represented in line, tone, and color. Decorative design for
costume will be planned and executed. The last six weeks will be devoted to
house furnishing. Color, design, selection and arrangement of furnishings will
be supplemented by collections of illustrative material and visits to decorators'
and furniture shops.
107. **Illustrative Handwork.** 4 term hours. Offered each term. Miss Siedschlag.

Problems relating to interests in primary grades worked out in wood, paper, clay, and other mediums.

Note.—Required of Early Elementary students.


A beginning course in art structure, teaching principles of design and color theory and their application to the making of original borders, surface patterns, and other school art problems.

112. **Mechanical Drawing.** 4 term hours. Spring term. Mr. Huff.


204B. **Wood Turning Design.** 1 term hour credit when taken in connection with Manual Arts 204A. (See Manual Arts Course, page 102.) Miss Siedschlag.

Designs emphasizing fine color and good proportion are made on paper and used as patterns for wood turning.

205. **Figure Drawing.** 4 term hours. Prerequisite: Teachers' Art 102. Winter term. Miss Stevenson.

Rapid sketches of figure in action. Preliminary sketches of hands and parts of the face. Careful drawing of figure in charcoal or crayon.

206. **Art Observation.** 4 term hours. Offered each term. Mrs. Struble.

Observation of the art activities in the training school and the discussion and illustration of these problems.

207. **Demonstration Drawing.** 4 term hours. Prerequisite: Teachers' Art 102. Winter term. Miss Roberts.

Practice in rapid drawing on the blackboard and on large paper with white and colored chalk. Nursery rhymes and children's stories are illustrated on blackboard and by means of paper cutting. Perspective and composition are reviewed.

208. **Art Composition.** 4 term hours. Prerequisite: Teachers' Art 102. Elementary Design 109. Fall term. Miss Roberts.

A study of composing within a given space figures, landscapes, flowers, birds, and animals, emphasizing unity, good spacing, good distribution of dark and light, study of tone relationship, and color harmony. Mediums used are show card paints, charcoal, pen and ink, and linoleum cuts. Christmas cards for the annual sale are designed in this class.

211A. **History and Appreciation of Art.** 4 term hours. Prerequisite: Teachers' Art 102, Elementary Design 109, Art Composition 208, or consent of the instructor. Winter term. Miss Roberts.

Study of Primitive, Egyptian, Chaldean, Greek, Roman, Indian, Chinese and Japanese architecture, sculpture, and painting.

211B. **History and Appreciation of Art.** 4 term hours. Prerequisite: Same as 211A. Spring term. Miss Roberts.

Study of the art of the Renaissance in Europe and of modern and contemporary art in Europe and America.
212. Handicraft. 4 term hours. Prerequisite: Teachers' Art 102 or Industrial Art 103. Spring or Summer term. Miss Stevenson.

Includes problems in batik, color cement, leather tooling, and other problems in handwork.

214. Commercial Art. 4 term hours. Prerequisite: Art 102, Art Composition 208. Winter and Spring terms. Miss Stevenson.

Lettering and application to advertising material such as posters, street cards, and book covers. Ink work with the various lettering pens will be included.


A course in pencil technique and composition for architectural drawing students.

220. Stage Design. 4 term hours. Fall or Winter term. (Not offered in 1927-1928). Miss Siedschlag.

A course for Art and Speech students. Class makes practical use of knowledge of scene painting, lighting, mechanics of staging the mid-winter play.

305. Advanced Figure Drawing. 4 term hours. Prerequisite: Teachers' Art 102, Figure Drawing 206. Winter term. Miss Stevenson.

A continuation of Figure Drawing 205, developing technical skill and imagination.

308. Advanced Art Composition. 4 term hours. Prerequisite: Teachers' Art 102, Elementary Design 109, Art Composition 208. Winter or Summer term. Miss Roberts, Miss Siedschlag.

When offered during the winter term, the work consists of making drawings and designs for the Brown and Gold. During the summer term, the work centers about the study of prints and print making, etching, and woodblock printing.

308D. Woodshop Design. 3 hours credit for the year's work when taken in conjunction with Woodshop 308 A, B, C. (See Manual Arts Course, page 103). Miss Siedschlag.

The work is given in connection with furniture making. Designs are made to be executed in Woodshop 308 A, B, C.

309. Advanced Design. 4 term hours. Prerequisite: Teachers' Art 102, Elementary Design 109, Art Composition 208. Fall or Spring term. Miss Stevenson.

Continuation of Elementary Design 109.

311. History and Appreciation of Art. 4 term hours. Prerequisite: Teachers' Art 102, Elementary Design 109, Art Composition 208, History and Appreciation of Art 211 A, B. Fall term. Miss Roberts.

A study of the development of painting and sculpture with special attention given to modern movements and contemporary art.

313. Art Supervision. 4 term hours. Prerequisite: Teachers' Art 102, Elementary Design 109, Art Composition 208, Commercial Art 214, History and Appreciation of Art 211A. Spring term. Miss Siedschlag.
A study of the school curriculum and its needs in art activities. Course of study will be outlined and administrative problems discussed. Collections of illustrative material will be cataloged, and equipment and supplies planned.


A course in textile decoration, specializing in embroidery. The use of decorative textiles for home, school, and stage is discussed.

321. Painting. 4 term hours. Prerequisite: Teachers' Art 102, Elementary Design 109, Art Composition 208 or the consent of the instructor. Spring or Summer term. Miss Broemel, Miss Roberts.

Painting of still life and landscape in the studio and outdoors. Oil or water color are used. The course involves the study of composition, color and good technique.

322. Bookbinding. 4 term hours. Prerequisite: Industrial Art 103 and Elementary Design 109 or consent of the instructor. Fall term. Miss Siedschlag.

An advanced course in the construction and decoration of books.

BIOLOGY

Course 102 is a survey course for those who have only a limited time to devote to the subject.

Course 101 is recommended as a minor sequence in biology. Any three one term courses may be taken for which the student has the prerequisites, but it is desirable to have them somewhat related in subject matter. Courses 131, 102, and 121, for example, make a good sequence.

Good major sequences are: for students interested in the general aspects of the subject, courses 101, 301, 302, 303; for students interested in zoology, courses 101 and any three of 251, 252, 253 and 254; for students interested in botany, courses 101 and 221. Students interested in nature study should refer to the special course of study outlined for nature study teachers, page 68. For sequences in agriculture, see page 69.

General Courses

101 A, B, C. General Biology. 12 term hours. Courses should be taken consecutively through the year. Dr. Goddard.

A general laboratory course which can profitably be selected by those who wish a thorough general training in the subject and those who desire a basis for specialization. Credit in this work is accepted for entrance in professional schools of medicine and dentistry. Beginning with the cell as a unit, a number of representative animal and plant forms are studied with reference to their structures, functions, and life relations. Classroom; 2 hours a week, laboratory, 2 double periods.

102. Fundamentals of Biology. 4 term hours. Fall, Winter, and Summer terms. Dr. Kenoyer.

The student gets a general notion of the manner in which animals and plants feed, grow, react to their surroundings, reproduce, and develop. He gains some ability in interpreting the facts of organic nature. This course should not be taken by students who have taken or expect to take Biology 101 or 103.

103 A, B. General Biology. 8 term hours. Fall and Winter, or Winter and Spring terms. Dr. Goddard, Dr. Kenoyer.
An abbreviated form of Course 101, covering the ground in two terms. Intended primarily for freshman students in the departments of physical education, but open to others. Physical education students should take Hygiene 112 in the term of their freshman year in which they are not enrolled in Biology 103. Classroom, 2 hours a week; laboratory, 2 double periods.

104. General Science. 4 term hours. Prerequisite: previous work in collegiate science. Fall and Winter terms. Dr. Goddard.

Intended for those who expect to teach general science in either junior or senior high schools. Also adapted to the needs of those who cannot specialize in science, but who would like to take a general introductory course. The problem method is largely followed. The common phenomena of everyday life both in the physical and in the living world will form the basis for the work. Attention is directed to both subject matter and methods of presentation.

201. Teaching of Biology. 2 term hours. Prerequisite: at least three terms of work in the biology department. Spring term. Dr. Kenoyer.

For those who intend to teach biology in the high schools. Instruction is given in the organization of material and in the means of presenting biological truths through the lecture-recitation, the laboratory, and the field trip.

202. History of Science. 4 term hours. Fall term. Dr. Goddard.

A survey of the development of scientific ideas and a study of the lives and achievements of great scientists. Effort will be made to develop not only a knowledge of these achievements, but also an appreciation of the problems and painstaking labors of these early investigators and the heroism and dramatic significance of their work. Emphasis will be placed on the triumphs of science in the present scientific age and the relation of science to present civilization. Historical relations between science and religion will be traced.

301. Organic Evolution. 4 term hours. Prerequisite: Biology 101 or 102. Fall term. Dr. Kenoyer.

It is important that the teacher understand evolution as the logical scientific attitude toward nature,—the most satisfactory means of explaining all progress that has occurred and shall occur in the universe. The student is given an outline of the evidences for and the probable steps in the evolution of both the plant and the animal kingdoms. Two hours per week are devoted to laboratory work.

302. Genetics. 4 term hours. Prerequisite: Biology 101 or 102 and, if possible, 301. Winter term. Dr. Kenoyer.

Deals with the reasons why living things differ from one another and the manner in which these differences are transmitted from parents to offspring. In the laboratory the laws of heredity are worked out by the breeding of the fruit fly.

303. Eugenics. 4 term hours. Prerequisite: Biology 101 or 102 and, if possible, 302. Spring term. Dr. Kenoyer.

The principles of heredity as applied to man, the present trend of civilization and means for the improvement of the race. Population increase, temperance, the color problem, race suicide, immigration, and warfare are considered in their eugenic bearing.

401. Biology Seminar. 1 term hour. Prerequisite: at least three terms of work in the biology department. Offered each term. May be repeated as often as desired. The Staff.
Advanced students in biology meet once each week to review and discuss current biological literature.

**Anatomy and Hygiene**

112. **Hygiene.** 4 term hours. Offered each term. Mr. Place.

This course considers the factors of both personal and social hygiene, with especial emphasis on the causes of ill-health and disease and their control and prevention.

113. **School Hygiene.** 2 term hours. Summer term. Mr. Place.

Designed especially for teachers. Such problems are considered as malnutrition of the school child, factors influencing growth, physiological differences between children and adults, school-room ventilation, personal hygiene, and prevention of contagious diseases. Hygienic and sanitary surveys are taken.

211 A, B. **Anatomy.** 8 term hours. Fall and Winter terms. Mr. Place.

This course gives the student a comprehensive knowledge of the structure of the human body. A complete dissection of the rabbit is made. This and the following course constitute a year's work required of sophomores in physical education and open to other students. Classroom, 3 hours a week; laboratory, 2 hours a week.

211C. **Physiology.** 4 term hours. Prerequisite: Anatomy 211 A and B or high school physiology. Spring term. Mr. Place.

This course is especially designed for physical education students.

214. **School Health Problems.** 4 term hours. Prerequisite: courses 112 and 211 A, B, C. Spring term. Mr. Place.

This study of the methods of maintaining good health in schools is planned especially for second year physical education women. Practice is given in the recognition of the common diseases of children. A special study is made of the contagious diseases. Hygienic and sanitary surveys are taken.

215. **Health Education.** 4 term hours. Prerequisite: Hygiene 112 or Physical Education 106, and Principles of Teaching 101. Offered each term. Miss Mullen.

The course is intended to give the teacher an understanding of the place of health in education; to give the students instruction in and, as far as possible, experience in various methods of health presentation; to familiarize the students with devices for obtaining the interest and co-operation of the parents and children in healthful living; to acquaint the students with activities and literature of various organizations interested in school health.

**Botany**

121. **Elementary Botany.** 4 term hours. Spring term. Dr. Kenoyer.

Designed for freshmen and others who have not taken botany. Devoted mainly to the structure, functions, and classification of seed plants. Classroom, 2 hours a week; laboratory, 2 double periods.

221 A, B. **General Botany.** 8 term hours. Prerequisite: Biology 101 or 121, or a year of high school botany. Fall and Winter terms. Dr. Kenoyer.
The life history of representative plants, chosen to avoid duplication of work done in Biology 101 but to supplement that course in giving a conception of the development of the plant kingdom. The principles of plant physiology are illustrated by demonstration and experiment. Classroom, 2 hours a week; laboratory, 2 double periods.

221C. Field Botany. 4 term hours. Prerequisite: Biology 101 or 121. Desirable preliminary: Biology 221 A, B. Spring and Summer terms. May be elected both terms. Dr. Kenoyer.

Plants are considered mainly from the standpoints of ecology and taxonomy. The students become familiar with the plants of the region and the manner in which they are grouped into communities. Classroom, 2 hours a week; laboratory or field, 2 double periods.

421. Research in Botany. Hours and credit by arrangement. Prerequisite: Biology 221 A, B, C. Dr. Kenoyer.

Individual instruction in beginning research for advanced students.

Zoology

151. Elementary Zoology. 4 term hours. Spring term. Dr. Goddard.

This is designed to offer a one-term course to freshmen and others who have had little previous zoology. A general survey will be made of the animal kingdom with special emphasis on habits, life histories, physiology and economic importance. The course will deal largely with higher animals and will give opportunity for considerable field work. Practical applications to agriculture, health and disease, etc., will be given prominence. Classroom, 2 hours a week; laboratory, 4 hours a week.

251. Entomology. 4 term hours. Fall term. Dr. Goddard.

Structural characteristics, habits, life histories, natural homes, classification and economic importance of insects. Field excursions will deal with natural environment, adaptations, and identification. Food habits and economic control will receive special attention. Structural characters, identification, classification, and methods of rearing insect forms will be studied in the laboratory.

252. Invertebrate Zoology. 4 term hours. Winter term. Dr. Goddard.

The study will include structural characters, physiology, life histories, habits, distribution and classification of invertebrates. Identification of local forms and practical economic values will be emphasized. This course is especially desirable for students intending to teach biology in the high school.


A continuation of course 252, but may be taken independently. Habits of the higher animals and their practical relationship to human life will be especially emphasized. Some attention will be given to comparative anatomy and its relation to evolutionary development. Practical applications to game laws and to the protection and conservation of wild life will be studied. This course like 252, will be especially valuable to prospective teachers of high school biology.

254. Field Zoology. 2 or 4 term hours. Spring and Summer terms. Dr. Goddard.

A course for students desiring to become acquainted with animals in their natural homes and to learn methods of collecting, mounting, classifying, and
preserving for laboratory and demonstration purposes. Special attention will be given to methods of keeping living material, such as the making and stocking of aquaria, terraria and animal cages. Identifying and classifying specimens will be carried on in the laboratory. Saturday forenoon should be reserved for field work.

Nature Study

Students preparing to be special teachers of nature study in platoon schools should elect Biology 101 A, B, C, Botany 221 C, Zoology 251, 254, and Nature Study 131, 132, 134.

131. Biological Nature Study. 4 term hours. Offered each term. Miss Hadley.

The students make materials which they can use in their schools. Outline drawings of trees, birds, and flowers are colored. An aquarium and a net which can be used for water and air insects are made. Each student has an individual garden where he prepares the soil, plants the seed, and cares for the plants that he raises. By trips through the meadows and woods the student learns to recognize the trees, flowers, birds, and insects that are common inhabitants of our fields, woods, and streams. The theories and problems of biology and the ideals of nature study are given in lectures throughout the course.


Treated in much the same manner as 131, except that the physical side is stressed rather than the biological. Common rocks and minerals, stars and our solar system, magnetic and electric toys, heat, light, and sanitation are studied.


The student becomes acquainted with the books necessary for the school's nature library. Naturalists and nature poets, essayists, and story tellers are studied.

135. Bird Study. 4 term hours. Summer term. Miss Hadley.

The student learns to identify at least fifty birds in the field, and makes colored plates of seventy-five birds. Lectures are given on the economic importance of birds, their life problems, the measures necessary for their protection, and what the United States and Michigan have done for their protection.

137. Scouts' Nature Study. 4 term hours. Prerequisite: high school biology or the equivalent. Summer term. The staffs of the biology and geography departments.

In this course several instructors, each for a period of about a week, will give instruction on those phases of nature study which are most important as part of the equipment of the prospective scout leader. The student will spend most of his time in the field, and will become acquainted with the material that the average child will find in the usual Michigan camp environment.


A discussion of methods, materials, and curricula for nature study. Of special interest to later elementary students.
Agriculture

The work in agriculture is intended to develop interest in, appreciation of, and right attitudes toward farm life and the work of farming, as well as to develop knowledge of scientific food production and marketing. Some of the courses are intended for those who expect to teach in city schools as well as for those who expect to teach in rural sections. Anyone interested in boys' and girls' club work, garden supervision work, planning and care of school grounds, special phases of farming as side lines, teaching in rural and consolidated schools, teaching agriculture and science in high schools, or in finishing a four year course in agriculture in an agricultural college should consider the courses offered in this department. A one hundred acre farm is operated in connection with this department.

A major sequence in agriculture consist of courses 142, 143, 144, 242, 243, and 244.

A minor sequence in agriculture consists of three of the above courses, preferably 142, 143, and 144 or 244.

Since the specialized courses are offered only every other year, students who desire to major in agriculture, who will be in school only two years, and who enter in years in which second year courses are offered, may take second year courses in the first year.

Students expecting to teach in town schools should consider courses 241 and 245.

141. Elementary Agriculture. 4 term hours. Offered each term. Mr. Delamarter.

For those who can take only one term of agriculture preparatory to teaching in a rural school. Material for grades I–VIII inclusive will be presented, the work of the earlier grades being a study of nature material selected from the rich resources of the farm. Material adapted to the year course in eighth grade agriculture will be studied and ways in which the teacher may initiate agricultural improvement will be considered.

142. Farm Crops. 4 term hours. Fall term (1928-1929). Mr. Delamarter.

Factors in the production of all farm crops and adaptation, culture, and improvement of the separate crops, such as corn, wheat, oats, rye, barley, buckwheat, field beans, potatoes and root crops, the clovers, alfalfa, vetch, soy beans, millets, hay and pasture grasses. Some study of the botany of crop plants will be made.


The student is expected to become familiar with the correct types of farm animals. Some time will be devoted to a study of breeds, noting particularly adaptations, characteristics, and economic importance. Market classes will be considered in relation to correct type. Animals will be judged by scale of points and by comparison. Correct breeding practices will be noted. Each student will be required to solve a problem involving the housing, feeding, care, and management of each kind of farm animal and the marketing of products.

144. Fruit Growing. 4 term hours. Spring term (1928-1929). Mr. Delamarter.

Both tree fruits and small fruits, including choice of site and soil, selection of varieties and of nursery stock, setting of trees and plants, culture, pruning, insects and diseases and their control, picking, handling, and marketing of fruit. Field work will be given in setting trees and plants, pruning, spraying, and the like.
242. Soils. 4 term hours. Fall term. Mr. Delamarter.

The aim of this course is to give the student a knowledge of the origin and nature of soils, soil classes, textural classes, physical properties, moisture relations, air, heat, culture, deterioration and conservation, judging farm lands, supply of lime, nitrogen, organic matter and mineral food, soil organisms, crop rotation, manures and commercial fertilizers.

243. Agricultural Economics. 4 term hours. Winter term. Mr. Delamarter.

The economics of production and marketing, including such problems as farm life, size of farm business, production, balance, capital and credit, types of farming and farm enterprises, selection of crops and livestock, layout and arrangement, acquiring a farm, land rental, farm accounts, cost accounts, cost of producing farm products, marketing of farm products, fundamental principles of co-operation in agriculture, power and equipment, labor. Laboratory practice will be given in farm accounting, including inventories and financial statements, financial accounts, and cost accounts.

244. Gardening. 4 term hours. Spring term. Mr. Delamarter.

Home and school gardens and the place of gardening in educational work; objectives and methods of school gardening. Garden crops are studied and each student plans a garden. Some study will be made of flowers as well as vegetables and the principles of landscape gardening will be presented. Field practice in gardening will be provided.

245. The Farmer and His Task. 2 term hours. Winter term. Mr. Delamarter.

A course intended for those who have always lived in town or who expect to teach in town schools. Aims to develop proper appreciation of farm problems and to serve as a basis for rural and urban co-operation. The course presents the historical development of agriculture, agriculture in other lands, the farmer of the past, the present, and the future, a few of the problems involved in providing an adequate food supply that the city man should understand, the joys of farm life, some items of non-vocational agriculture that should help the city autoist to enjoy more fully his trip amidst country scenes, and the teacher’s relation to this problem of insuring proper understanding of food production and distribution.

CHEMISTRY

Students who expect to be recommended to teach chemistry in high schools must elect, as a minimum, courses 101 A, B, C, or 102 A, B, C. Through arrangement with the Department of Physics, a major may be made by taking chemistry the first year and physics the second year.

Students wishing a degree in chemistry should plan courses including the following: general chemistry, mathematics and physics during the first year; qualitative analysis, quantitative analysis, calculus and physics the second year; organic chemistry, quantitative analysis the third year; physical chemistry and special courses the fourth year.

101 A, B, C. General Chemistry. 12 term hours. Prerequisite: one year of high school chemistry. Begins in the fall term and continues through the year. Mr. Boynton, Dr. McCracken.

The fundamental principles of chemistry are studied in such a way as to prepare both those students who wish to teach and those who expect to go on to more advanced work in the subject. This course may also be taken as a cultural subject by students desiring a broader knowledge of their environment.

Classroom, 3 hours a week; laboratory, 4 hours a week.
102 A, B, C. General Chemistry. 12 term hours. Begins in the fall term and continues through the year. Mr. Eldridge.

Similar to course 101 A, B, C, but intended for students who have had no high school chemistry.
Classroom, 3 hours a week; laboratory, 4 hours a week.

103 A, B, C. General Chemistry. 12 term hours. Begins in the fall term and continues through the year. Mr. Eldridge.

Required of all students in the Home Economics department. No other students admitted.
Classroom, 3 hours a week; laboratory, 4 hours a week.

104. Introductory Chemistry. 4 term hours. Summer term. Mr. Eldridge.

A study of the historical development of chemistry and of its place in modern life. It is to be noted that this course is not to be taken by students desiring the fundamental principles of the subject; it is rather designed to give an appreciation of the importance of chemistry.
Classroom, 3 double periods a week; laboratory, 4 double periods a week.

201A. Qualitative Analysis. 4 term hours. Prerequisite: Chemistry 101A, B, C or 102 A, B, C. Fall term. Dr. McCracken.

Basic analysis. Two lectures a week and a minimum of 8 hours in the laboratory.

201B. Qualitative Analysis. 4 term hours. Prerequisite: Chemistry 101 A, B, C or 102 A, B, C, and 201A. Winter term. Dr. McCracken.

Acid analysis. Almost entirely laboratory work. A minimum of 10 hours of laboratory work a week required.

202A. Organic Chemistry. 4 term hours. Prerequisite: Chemistry 101A, B, C or 102 A, B, C. Summer term. Mr. Eldridge.

The aliphatic (fatty) series are studied—paraffins, alkyl halides, alcohols, aldehydes, ketones, sugars, amines, and acids.
Classroom, 3 double periods a week; laboratory, 4 double periods a week.

202B. Organic Chemistry. 4 term hours. Prerequisite: Chemistry 101A, B, C or 102 A. B. C or 202A. Summer term. (Not offered in 1927.) Mr. Eldridge.

The aliphatic (open chain) and aromatic (closed chain) compounds are studied.
Classroom, 3 double periods a week; laboratory, 4 double periods a week.

204. The Teaching of Chemistry. 2 term hours. Prerequisite: Chemistry 101 A, B, C or 102 A. B, C. May accompany either 101C or 102C. Spring term. Dr. McCracken.

This course is especially designed for students preparing to teach chemistry in high school. The subjects stressed are fundamental chemical theories, problems, laboratory equipment and technique, and the history of chemistry.

301. Advanced Qualitative Analysis. 4 term hours. Prerequisite: General Chemistry 101 A, B, C or 102 A, B, C and Qualitative Analysis 201 A, B. Spring term. Dr. McCracken.

This is entirely a laboratory course devoted to the analysis of ores, alloys, water, etc.
302 A, B, C. **Organic Chemistry.** 12 term hours. Prerequisite: Chemistry 101 A, B, C or 102 A, B, C. Open to qualified sophomores. Begins in the fall term and continues through the year. Mr. Eldridge.

Preparation and reactions of organic compounds, both of the aliphatic and aromatic series are studied. These courses are not only valuable to those students who wish to teach chemistry, but are also suited to the needs of those who may later study medicine, dentistry, or chemical engineering. Credit is given for each term's work, but students are advised against taking one course only.

Classroom, 3 hours a week; laboratory, 6 hours a week each term.

303A. **Quantitative Analysis.** 5 term hours. Prerequisite: Chemistry 101 A, B, C or 102 A, B, C and 201 A, B. Mr. Boynton.

Gravimetric methods. Laboratory work offered each term. Two lectures a week are given in the spring term and must be attended before credit will be given. They include studies in precision, solubility product principles, and principles of separation.

303B. **Quantitative Analysis.** 5 term hours. Prerequisite: Chemistry 101 A, B, C or 102 A, B, C or 201 A, B, and 303A. Mr. Boynton.

Volumetric methods. Laboratory work offered each term. Two lectures a week are given in the fall term and must be attended before credit will be given. They include studies in acidimetry, alkalimetry, iodimetry, theory of indicators, and oxidation reduction theory.

401A. **Physical Chemistry.** 5 term hours. Prerequisite: Chemistry 101 A, B, C or 102 A, B, C, 201 A, B, and 303A, Physics 201 A, B, C or 100 A, B, C, and Mathematics 103 A, B, C or equivalent. A knowledge of calculus is desirable. Open to qualified juniors. Fall term. Mr. Boynton.

Lectures and laboratory work. This course is particularly valuable for those who expect to teach physics and chemistry. The work includes a rigorous review of the fundamentals of chemistry, studies of physico-chemical theory, molecular weight determinations, properties of solutions, elementary thermodynamics, polarimetric and spectroscopic measurements.


Lectures and laboratory work. The course includes determinations of degree of ionization, studies in thermo-chemistry, studies in heterogeneous and homogenous equilibrium, colloids, radioactivity, and atomic structure.

401C. **Electrochemistry.** 5 term hours. Prerequisite: Chemistry 101 A, B, C or 102 A, B, C, 201 A, B, 303A and 401 A, B, Physics 201 A, B, C or 100 A, B, C, Mathematics 103 A, B, C or the equivalent, and Calculus 205 A, B, C. Open to qualified juniors. Spring term. Mr. Boynton.

Lectures and laboratory work. The course includes the study and measurement of conductance, transport numbers, electromotive force, single electrode potentials, degree of ionization, voltaic cells, and oxidation-reduction potentials.

402A. **Organic Preparations.** 4 term hours. Consult instructor before enrolling. Offered each term. Mr. Eldridge.
Methods of preparing the aliphatic compounds with an effort to produce the maximum yield at the minimum expense. Theoretical interpretations of facts are sought.

Classroom, 1 hour a week; laboratory, 10 hours a week.

402B. **Organic Preparations.** 4 term hours. Consult instructor before enrolling. Offered each term. Mr. Eldridge.

Methods of preparing the aromatic organic compounds.

Classroom, 1 hour a week; laboratory, 10 hours a week.


Coal, water, and ore analysis.

404. **Inorganic Preparations.** 4 term hours. Consult instructor before enrolling. Offered each term. Mr. Eldridge, Dr. McCracken.

Methods of preparing the less common inorganic compounds.

Laboratory, 12 hours a week.

405. **Organic Analysis.** 2 or 4 term hours. Consult instructor before enrolling. Mr. Eldridge.

Determination of carbon, hydrogen, nitrogen, etc., by combustion methods.

Laboratory work only.

**COMMERCe**

101. **Business Arithmetic.** 4 term hours. Fall and Winter terms. Mr. Pennell.

An arithmetical study of business situations which will enable the student to solve problems of the type that are of everyday occurrence in modern business. Review of fractions, decimals, and practical measurements followed by a thorough study of percentage and its applications. Considerable time is given to the development of mental solutions.

102A. **Shorthand and Typewriting (Elementary).** 4 term hours. Fall term. Mrs. Clark, Miss Watson.

Training in the elementary theory of Gregg shorthand and the technique of typewriting. The first ten lessons in the Gregg Manual, supplemented by assignments from Speed Studies and Graded Readings, are covered in this course.

Note.—Students electing shorthand and typewriting should plan to take 102 A, B, and C. Credit will not be allowed for a single term except by previous arrangement with the instructor.

102B. **Shorthand and Typewriting (Intermediate).** 4 term hours. Prerequisite: Shorthand and Typewriting 102A. Winter term. Mrs. Clark. Miss Watson.

The theory of Gregg shorthand and the technique of typewriting completed. Accuracy and rhythm in typewriting are stressed and moderate speed developed.

*Shorthand and typewriting must be taken three consecutive terms to secure credit, with the following exceptions:

Students who present one unit of Gregg shorthand and one unit of typewriting for entrance will not be allowed credit for Shorthand and Typewriting 102A, and should enroll for 102B.

Students who present two units of Gregg shorthand and two units of typewriting for entrance will not be allowed credit for Shorthand and Typewriting 102A or 102B, and should enroll for 102C. Early in the first week of the fall term a special examination will be arranged for these students. Failure to pass this examination will necessitate taking the work for review without credit.
*102C. Shorthand and Typewriting (Advanced). 4 term hours. Prerequisite: Shorthand and Typewriting 102 A, B. Spring term. Mrs. Clark, Miss Watson.

Application and discussion of the principles of Gregg shorthand, dictation at moderate speed, and extensive reading of shorthand notes. In typewriting, attention is given to speed and accuracy, to the transcription of shorthand notes, and to the preparation of various business forms.

201A. Accounting. 4 term hours. Fall term. Mr. Pennell.

A study of the principles of the double-entry system of accounting and an examination of the principal technical accounting devices for giving expression to these principles; the effect of current business transactions upon balance sheet accounts; a study of the theory and practice of recording temporary changes of proprietorship in expense and revenue accounts; and the development of simple definite rules of debit and credit. Special attention is given to columnar journals, subsidiary ledgers, and control accounts.

201B. Accounting. 4 term hours. Prerequisite: Accounting 201A. Winter term. Mr. Pennell.

Significance of the accounting period and periodic operations; construction of simple financial statements; and the classification of accounts for accounting and other purposes. Special attention is given to the periodic adjustment of accounts, working sheets, income statements and balance sheets, and ledger closing.

201C. Accounting. 4 term hours. Prerequisite: Accounting 201 A, B. Spring term. Mr. Pennell.

This course includes an intensive study of income and its determination and a careful consideration of some of the problems of income accounting. The more important phases of partnership accounting and of corporate accounting are given special attention.

202. Shorthand. 4 term hours. Prerequisite: Shorthand and Typewriting 102C. Fall term. Miss Watson.

Intensive drill on dictation and transcription. Special attention is given to the discussion of methods of teaching shorthand.

203. Typewriting. 2 term hours. Prerequisite: Shorthand and Typewriting 102 A, B, C. Winter term. Miss Watson.

An advanced course planned especially to develop operating technique and for the consideration of methods of teaching.

204. Letter Writing. 4 term hours. Spring term. Miss Watson.

Designed to develop facility in various forms of letter writing for business use; to establish standards of judgment for form and expression by an analysis of the principles embodied in the best modern business letters, and to develop individuality of style.


Principles of junior business training, secretarial practice, and office management. Discussion of methods for teaching such a course in high school.

301. Cost Accounting. 4 term hours. Prerequisite: Accounting 201 A, B, C. Fall term. Mr. Pennell.
The relation of cost accounting to management for control; general principles involved in constructing a cost system; modern methods of distributing the three elements of cost—material, labor and burden; cost records and operating reports; joint and by-product costs; budgetary control and the use of cost reports by executives and department heads. Class discussion is supplemented by many short illustrative problems, and a complete cost set is written up as a laboratory exercise.

302. Auditing. 4 term hours. Prerequisite: Accounting 201 A, B, C. Winter term. Mr. Pennell.

An elementary study of the theory and technique underlying a simple audit. Analysis of the more important balance sheet, expense, and revenue accounts; examination of original data supporting the accounts; use of auditor's working papers, adjustments, and adjusting journal entries. Many questions involving actual situations are introduced for class discussion and a working trial balance, financial exhibits, and the text of a simple report are prepared from a set of working papers.

303. Accounting Theory. 4 term hours. Prerequisite: Accounting 201 A, B, C. Fall term. Mr. Pennell.

This course is designed especially to meet the needs of those who are preparing to teach bookkeeping in secondary schools. It deals (1) with the theory of the underlying structure of the double-entry system, (2) with some of the controversial points of bookkeeping and accounting theory, (3) with some of the more important literature of bookkeeping and accounting, (4) with a discussion of the subject matter suitable for a high school course, and (5) with a consideration of methods of presenting this matter to high school students. Special readings from various authors of bookkeeping and accounting texts are assigned, and numerous short problems illustrating theoretical questions are given for solution.

304. A, B, C. Business Law. 9 term hours. Offered as a year's course. Mr. Pennell.

Organized to meet the particular needs of teachers of business law in secondary schools, this course undertakes primarily to develop an appreciation for law through a study of its sources, development, and significance. By assigned readings from various legal writers, an effort is made to give the student some acquaintance with the history and philosophy of law. Special emphasis is laid upon the practical application of legal rules in ordinary business transactions. The course continues throughout the year, and students who elect it must plan to take it as a whole. Credit will not be given for a single term.

A. Contractual transactions involving a study of the leading principles of the law of contracts.
B. Special contractual transactions dealing with the more important principles of the law of sales, bailment, and negotiable instruments.
C. Various forms of business association. The principles of the law of agency, partnership, and corporations.

305. Problems in Secondary Commercial Education. 3 term hours. Fall and Winter terms. Mr. Pennell.

This course deals with some of the more important problems of commercial education in secondary schools. An analysis of modern business is made in an effort to ascertain what education for business should strive to do. An examination is made of secondary commercial curricula to determine whether or not the best interests of business and of the students are served. Certain modifications of existing curricula are considered and new subject matter examined. Some attention is given to the history and development of commercial education.
EARLY ELEMENTARY EDUCATION

101A. Early Elementary Education. 4 term hours. Fall and Spring terms. Mrs. Campbell, Miss Coppens, Mrs. Phillips.

An appreciation of child conservation is sought through a knowledge of the physical needs of the child and the method the school uses to provide and promote healthy living.

101B. Early Elementary Education. 4 term hours. Prerequisite: Early Elementary Education 101A, Psychology 101. Fall and Winter terms. Mrs. Campbell, Miss Coppens, Mrs. Phillips.

The nature and development of the behavior of the young child is studied. Observation in the Training School is required so that the student may become familiar with the natural mental characteristics, individual differences, and problem cases of children from five to eight years of age.

101C. Early Elementary Education. 4 term hours. Prerequisite: Early Elementary Education 101 A, B, Psychology 101. Fall and Winter terms. Mrs. Campbell, Miss Coppens, Mrs. Phillips.

The satisfaction of the child's needs is found in the enriched curriculum which provides for an active child. Standards for judging objectives and methods used will be established. Experience in recording growth and development through the activities will be given. Activities dealing with the social life of which the child is a member; scientific experiences including use of numbers. Observation in the Training School required.

201. Games and Rhythms. 2 term hours. Prerequisite: Early Elementary Education 101 A, B. Fall, Winter, and Spring terms. Mrs. Campbell, Mrs. Phillips.

The development of rhythm and play in young children. About one-half of the course consists of readings and discussions of the theory of teaching plays and games. The remainder of the time is given to floor work and practice in games and dancing.


A study of the field of story telling for young children. Through classroom criticism and actual story telling standards in both are established.

103. Geography for the Early Elementary Grades. (See description of course in Geography Department, page 87.)

104. Music. (See description of course in Music Department, page 109.)

107. Illustrative Handwork. (See description of course in Art Department page 62.)

EDUCATION AND PSYCHOLOGY

Students preparing for positions as superintendents, principals, elementary school supervisors, junior high school supervisors, or helping teachers should enroll in the A.B. curriculum. In addition to the courses in Education and Psychology required for a life certificate, this department advises such students to elect from the groups A, B, and C according to their specialized interests. The sum total of all work taken in the department should not exceed sixty-four term hours. (See note 2, page 57.)
A. Courses for Superintendents and Principals.

B. Courses for Elementary School Supervisors, County Normal Critics, Helping Teachers.

C. Courses for Junior High School Supervisors.

Education

101. Principles of Teaching. 4 term hours. Prerequisite: Psychology 102 or its equivalent. Offered each term. Various members of the staff.

   Includes such topics as the curriculum, moral and social training, discipline, type lessons, questioning, and lesson plans. Systematic observation of classes in the training school is made, and standards for judging classroom instruction are worked out.

201. Junior High School Education. 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Fall and Spring terms. Mr. Wilds.

   A survey of the field of junior high school education. Comprises a brief study of the biological and psychological foundations upon which the junior high school is based; a survey of the origin, development, and present status of the junior high school movement; and a study of the junior high school curriculum, including a consideration of the various subjects and the points of view to be emphasized in their treatment.

206. Educational Measurements. 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Offered each term. Dr. Ellis, Dr. Sangren.

   A beginning course in educational tests and measurements. Includes such features as elementary statistical methods, essentials of test and scale construction, standardized tests and scales in school subjects, diagnosis and treatment of special difficulties, informal tests, surveys. There will be some opportunity for practice in giving and scoring tests, and in the interpretation of results.

220. Extra-Curricular Activities. 3 term hours. Prerequisite: Psychology 101, 102, Education 101. Winter and Spring terms. Miss Mason, Mr. Wilds.

   A study of the organization and supervision of the extra-curricular program in elementary and secondary schools. Consideration is given to such topics as the justification of extra-curricular activities, extra-curricular evils, typical
experiments in organization and administration, relation of extra-curricular program to the curriculum, centralization and unification, faculty participation, student participation and student government, point systems, systems of school credit and honor awards, financing the extra-curricular program.

224A. History of Education. 3 term hours. Prerequisite: Psychology 101, 102, Education 101. Fall term. Mr. Wilds.

The foundation elements of our educational organization and practice in ancient and medieval times. A detailed consideration of the education of Greek, Roman, and Christian civilizations. Emphasis is placed upon the three great forces giving rise to the beginnings of modern education—the Renaissance, the Protestant Reformation, and the Intellectual Awakening.

224B. History of Education. 3 term hours. Prerequisite: History of Education 224A. Winter term. Mr. Wilds.

The development of education in the seventeenth and eighteenth centuries, the transition from medieval to modern attitudes, the transplanting of European institutions to American shores, education in the American colonies, and the effects of the American and French revolutions upon educational theories and practices.

225. History of Education. 3 term hours. Prerequisite: Psychology 101, 102, Education 101. Spring term. Mr. Wilds.

The beginnings of national education in Europe and America, the battle for free public schools, and the development of new conceptions of the educational process as exemplified in the teachings of such leaders as Pestalozzi, Herbart, and Froebel. The last half of the term is devoted to a study of present day educational leaders and movements with detailed consideration given to such topics as: Dewey’s social philosophy, the project idea, educational measurements, mental testing, curriculum reconstruction, the Dalton and Winnetka plans of individualized instruction, the nursery school, the unified kindergarten-primary unit, the junior high school, the junior college, the county unit and rural consolidation, the platoon system, vocational guidance and training.

230A. Vocational Education. 3 term hours. Fall term. Mr. Diamond.

An introductory course. Among the topics covered are economic and social need for vocational education; legislation regarding this subject; methods of procedure in starting part-time schools; vocational guidance, and follow-up work.

230B. Vocational Education. 3 term hours. Winter term. Mr. Diamond.

Methods of teaching industrial subjects; selecting and analyzing types of work, arrangement of lesson plans, testing and marking, records and reports, class management, internal and external relations.

230C. Vocational Education. 3 term hours. Spring term. Mr. Diamond.

History and literature of the manual arts.

301. Junior High School Problems. 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Spring term. Mr. Wilds.

An advanced course dealing with such practical problems as the adaptation of instruction to the different levels of intelligence, the adequate provision of guidance and exploration opportunities, the organization and supervision of home room activities, and the articulation of the junior high school with the elementary school and the senior high school. Opportunity will be given for trips to outstanding junior high schools for study and investigation.
306A. **Secondary Education.** 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Fall term. Dr. Halnon.

A comparative study of secondary education; the development of secondary education in America; principles determining secondary education; aims and functions of secondary education.


Aims and functions of secondary education; evaluation of the various high school subjects; trend in the content of each subject; organization of subject matter; measurement of results; individual problems in the construction of high school curricula.


Character and classification of secondary school population; the secondary school teacher; classroom routine; problems of discipline; types of recitations; tests and examinations; records and reports.

316A. **School Administration.** 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Fall term. Mr. Powell.

A course for students looking forward to work as superintendents; and also for those teachers, elementary school principals, junior and senior high school principals, as well as general or special supervisors, who wish to render more constructive co-operation to their superintendents of schools. Some of the major problems discussed are the following: place of public opinion (local, state, and national) in school control; selection and functions of boards of education and of the superintendent of schools; personal organization and control; selection, training, tenure, and salaries of teachers; adjustments of curricula to individual differences; the platoon, Winnetka, Cambridge, Dalton, and other plans; the efficiency expert; business organization.

316B. **Problems in School Administration.** 4 term hours. Prerequisite: Education 316A, or experience as an administrator. Winter term. Mr. Powell.

Problems met by all school administrators will be studied in detail, and methods for arriving at solutions in the field will be tested by application to real situations, the method of the school survey being used wherever possible. The problems include: school survey methods, location and planning of school buildings, curriculum reorganization, administration of health and physical education, educational and vocational guidance, grades and marks.

316C. **Problems in School Administration.** 4 term hours. Prerequisite: Education 316A, B. Spring term. Mr. Powell.

The method followed is similar to that in Education 316B. The problems include: classification, progress, and achievement of pupils; child accounting, financial accounting, supply accounting, publicity, taxation, state control.

325. **School Publicity.** 2 term hours. Winter term. Mr. Wilds.

Practical application of statistical and graphic methods to educational publicity. Specific training is given in the preparation of concrete material for school exhibits, school bulletins, superintendents' reports, and the daily newspapers.
328A. **Supervision of the Elementary Curriculum.** 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Fall term. Dr. Hilliard.

Introduction to the field of curriculum making; basic principles underlying the same worked out; special emphasis on writing and spelling. Open to qualified sophomores who obtain the consent of the instructor.

328B. **Supervision of the Elementary Curriculum.** 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Winter term. Dr. Hilliard.

Special emphasis on composition, oral English, silent reading, and the improvement of study habits. Open to qualified sophomores who obtain the consent of the instructor.

328C. **Supervision of the Elementary Curriculum.** 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Spring term. Dr. Hilliard.

Special emphasis on geography, elementary science, history, civics, arithmetic, literature, and art. Open to sophomores as above.

330 A, B, C. **School Supervision.** 12 term hours. Four hours a week throughout the year. Prerequisite: Psychology 101, 102, Education 101, Teaching 201, 202. Miss Steele.

A course for those looking forward to positions as principals and supervisors of elementary schools and critic teachers in normal schools. The course deals with the problems of supervision, with special emphasis upon the improvement of teaching. Opportunity is provided for practical experience. Among the more important topics are diagnosis of instruction observed, methods of improvement, methods of meeting teachers individually and in groups, the selection of textbooks, the use of standard tests.

331. **Practice in Supervision.** 4 term hours. Offered each term. Miss Steele.

This course is offered to a few selected students, and is adapted to their needs and interests. Provision is made for practice work as critic teacher, supervisor, or as assistant principal.

427. **Administration of Educational Measurements.** 4 term hours. Prerequisite: Psychology 101, 102, 205, Education 101, 206. Spring term. Dr. Sangren.

An advanced course in educational measurements based upon a knowledge of the fundamentals of educational and mental testing. The purpose of the course is to consider how to conduct testing programs and how to interpret and use test results. The work of the course will involve a certain amount of actual practice in testing, reporting the results of testing, and applying statistics to educational problems. The course is intended primarily for those who expect to be responsible for measurement work in a school system, whether in the capacity of superintendent, principal, supervisor, or director of educational measurement.

**Psychology**

101. **Introductory Psychology.** 4 term hours. Offered each term. Various members of the staff.

An introductory course serving as a scientific basis for subsequent courses in education, as well as an introduction to the field of psychology itself.
102. **Educational Psychology.** 4 term hours. Prerequisite: Psychology 101. Offered each term. Various members of the staff.

An application of the principles of psychology to the practical work of teaching in the classroom.

104. **Psychology of Reading.** 4 term hours. Prerequisite: Psychology 101. Offered each term. Dr. Hilliard, Miss Spindler.

A summary of the results of the scientific studies made in the field of reading, with suggestions as to the bearing of these studies upon the material and methods of teaching.

203. **Genetic Psychology.** 4 term hours. Prerequisite: Psychology 101, 102. Offered each term. Dr. Henry.

A study of the development of mind in the race and in the individual.

205. **Mental Tests.** 4 term hours. Prerequisite: Psychology 101, 102. Offered each term. Dr. Sangren.

An introduction to the use of mental tests. About two-thirds of the course is given to supervised training in the administration of the Stanford Revision of the Binet-Simon individual intelligence tests. Actual practice in the giving of mental tests is provided.

212. **Industrial Psychology.** 4 term hours. Prerequisite: Psychology 101, 102. Spring term. Mr. Powell.

Deals with the applications of psychology to business and industry.

234. **Psychology of School Subjects.** 4 term hours. Prerequisite: Psychology 101, 102. Winter term. Dr. Ellis.

A course in the psychology of learning as specifically involved in each of the elementary school subjects.

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**ENGLISH**

99. **Grammar Drill.** No credit given. Offered each term. Miss Gary.

A miscellaneous review and drill for students who are deficient in the rudiments of English grammar, spelling, and punctuation. Such students will be required to carry this work in connection with the regular courses in composition and rhetoric in order that they may receive such extra attention as cannot be given them in these classes. The class meets twice a week.

101A. **Composition.** 4 term hours. Offered each term. Miss Gary.

A consideration of the principles of composition, with emphasis upon sentence and paragraph structure. Representative prose selections are read and analyzed and many written compositions are required.

101B. **Composition.** 4 term hours. Offered each term. Miss Gary, Miss Master.

A general discussion of the four forms of discourse with analysis of specimens of each form. Most of the time will be devoted to the writing and correction of themes.

102 A, B, C. **History of English Literature.** 12 term hours. Four hours a week throughout the year. Miss Eicher, Miss Loutzenhiser, Miss Van Horn.
A general survey of the whole field of English Literature with wide reading in biography and representative selections from the various periods. Students electing this course should take it throughout the year. By special arrangements students entering the Normal School in January may take the remainder of the course.

103. Literature for Children. 4 term hours. Offered each term. Miss Master, Miss Rawlinson.

This course aims: (1) to give a general survey of the field of literature suited to the needs and tastes of children; (2) to get at the general principles which underlie the selection of literature for children under any given conditions; (3) to organize and give new meaning to the mass of literature already read, and to add largely to its content by further reading. While this is primarily a course in literary material for class use, some attention will be paid to the subject of general reading for children, both inside and outside of school.

104 A, B, C. Rhetoric. 9 term hours. Three hours a week throughout the year. Miss Eicher, Mr. Foley, Miss Loutzenhiser, Miss Master, Mr. Masterson, Miss Nobbs, Miss Rawlinson, Mr. Slusser, Miss Swain, Miss Van Horn.

This is equivalent to the regular required work in college Freshman English. The aim of the course is to cultivate the habit of correct speech both oral and written, and to develop some skill in the use of the ordinary forms of composition. Some time is given to the careful study and analysis of such literary masterpieces as will awaken in the student a livelier appreciation of the value and importance of style in speaking and writing.

Note.—This course covers the same ground as Composition 101A and Composition 101B, and may be substituted in all cases where either of these courses is required. Students may not count Rhetoric 104 for credit along with the courses in Composition. Students must plan to take the course throughout the year with the same instructor.

110. English Literature. 4 term hours. Fall term. Mr. Sprau.

In this course an attempt is made to introduce the student to the general field of literary study and to develop in him some skill in critical interpretation. The typical forms of literature are carefully studied, and different ways of approaching the subject are considered. The course is intended to be a foundation for further study of literature.

111. Lyric Poetry. 4 term hours. Winter term. Mr. Sprau.

This course is a more thorough study of one form of literature considered in 110. Its aim is to help the student to a fuller appreciation of good poetry, to know why a poem is good literature, and to suggest ways of using poetry with classes. Intended for grade teachers especially.

112. The Familiar Essay. 4 term hours. Spring term. Mr. Sprau.

This course aims to introduce the student to careful and accurate reading of English literary prose, and to cultivate in him some appreciation of the familiar essay as a type of literature. The familiar essay is studied in its historical development with special emphasis on the essay as written by the best essayists of our own time.

Note.—While 110, 111, and 112 represent a consecutive year's work, each unit may be taken separately with profit.

118. The English Bible. 6 term hours. Twice a week throughout the year. Mr. Sprau.

In this course an attempt will be made to study the Bible as a body of great literature. Facts of history and composition, in so far as they are known, will
be carefully studied as a background for intelligent interpretation and appreciation of Biblical literature. Students who enroll in the course for credit will be required to read the major part of the Bible and to study intensively certain books that are especially rich in literary value. *Juniors and seniors may elect the course only with the consent of the instructor.*

120. **History of American Literature.** 4 term hours. Fall term. Mr. Foley, Mr. Masterson, Miss Nobbs, Mr. Slusser.

A general survey of American literature. The reading of selections to illustrate the various periods is required.

Note.—120, 121, and 122 may be taken separately or as a year’s sequence of courses.

121. **Chief American Poets.** 4 term hours. Winter and Spring terms. Mr. Foley, Mr. Masterson, Miss Nobbs, Miss Swain.

An intensive study of the chief American poets.

122. **American Prose.** 4 term hours. Winter and Spring terms. Mr. Foley, Mr. Masterson, Miss Nobbs, Miss Swain.

An intensive study of the chief American prose writers.

124 A, B, C. **General Literature.** 9 term hours. Three hours a week throughout the year. Dr. Brown.

In this course the student is offered the opportunity of making acquaintance with great literatures other than English. Through translations he is introduced to the literature of the ancient Hebrews, Greeks, and Romans, to the Mediaeval and modern literature of the Italian, French, German, Spanish, Russian, and Scandinavian languages. Some attention is given to English literature, but only so much as its position among the literatures of the world might seem to justify. The course assumes no knowledge of any foreign language. The course extends throughout the year and may not be taken for a single term without the previous consent of the instructor. Intended primarily for freshmen and sophomores.

213 A, B. **The English Novel.** 6 term hours. Fall and Winter terms. Dr. Brown.

The first aim of the course is to acquaint the student with the method of studying and teaching prose fiction. For this purpose some short, well-constructed novel will be analyzed in the classroom. After some study of the picaresque tale of the Elizabethan times, the class will trace the development of the novel in Defoe, Richardson, Fielding, Sterne, and Smollett, the Gothic romance, and the novels related to the French Revolution. In the spring term, the leading English novelists from Jane Austen to the present date will be studied. Each member of the class will be required to make a detailed study of some novelist or phase of the novel, and to report upon the same to the class.

214 A, B, C. **Shakespeare.** 9 term hours. Three hours a week throughout the year. Mr. Sprau.

The purpose of the course is to help the student read Shakespeare with more understanding and appreciation and to give him practice in reading and interpreting Shakespeare to classes. Six or seven plays are carefully studied in class. Twenty-four other plays are assigned for careful reading.

216. **Contemporary Literature.** 4 term hours. Fall and Winter terms. Mr. Sprau.

It is the aim of this course to give the student some acquaintance with the better things in the literature of the last twenty years and to help him choose
his reading with more critical discrimination. The classroom work consists of reading and interpreting representative selections, and of lectures upon interesting subjects connected with the literature of today. The course is primarily a reading course; much library work is required.

219. The Short Story. 3 or 4 term hours. Spring term. Dr. Brown, Mr. Foley.

This course aims to trace the development of the short story in England, France, and America, with an account of its various types, and its general technique. The required reading will serve to acquaint the student with the best short stories and the method of teaching such material. Themes and reports will be required.

224 A, B. Eighteenth Century Poetry. 6 term hours. Fall and Winter terms. Mr. Foley.

In the first term, a study is made of classicism in English literature as exemplified in the non-dramatic poetry of Dryden, of his successor, Pope, and of some of Pope's contemporaries. The second term follows the further history of classicism, and the rise and progress of romanticism to the end of the eighteenth century, including the work of Gray, Maepherson, Cowper, Blake, and Burns. Without the previous consent of the instructor, credit cannot be given for a single term. Offered in 1927-1928.

225. The Ballad. 4 term hours. Spring term. Mr. Foley.

A study of the form and method of development of the traditional popular ballad. A number of ballads representative of various types will be studied minutely, and many others will be read. The course will pay some attention secondarily to the later artistic ballad.

226 A, B, C. Masterpieces. 6 term hours. Two hours a week throughout the year. Miss Loutzehiser.

This course continues throughout the year, but students may elect one, two, or three terms. Its purpose is to study intensively some of the masterpieces of English literature. At least one example of the novel, the essay, the drama, the tale, and of narrative poetry, will be read and analyzed. The masterpieces studied are as follows: In A, Canterbury Tales, Othello; in B, Heroes and Hero Worship, The Faerie Queen; and in C, The Ring and the Book, The Return of the Native.

302 A, B, C. History of English Literature. 12 term hours. Four times a week throughout the year. Dr. Brown.

A survey course in English Literature primarily for third year students who have had no literature courses in the first or second years. It may be elected by other third or fourth year students who have not had English 102. Students electing the course should take it throughout the year. No credit for a single term except by previous arrangement with the instructor.

308 A, B. The English Drama. 6 term hours. Winter and Spring terms. Offered in alternate years with Modern Drama 338. Dr. Brown.

In the winter term the class will trace the English drama from its origin in miracle and mystery plays through the period of the moralities, the interludes and the imitations of Latin tragedy and comedy to the work of Lyly, Green, Peele, Kyd, Marlowe, and Shakespeare. In the spring term will be read representative plays of Jonson, Chapman; Beaumont and Fletcher, Webster, and Shirley, heroic dramas by Dryden, Congreve, Farquhar, and Vanbrugh; eighteenth century comedies; and the choicest dramas of Byron, Shelley, and Browning. Offered in 1928.
309 A, B, C. Nineteenth Century Poetry. 12 term hours. Four hours a week throughout the year. Mr. Sprau.

This course aims to cultivate in the student a richer appreciation of poetry and to develop some skill in the critical interpretation of literature. The work consists of wide reading in the poetry of the century supplemented by critical and interpretive lectures on the thought of the period as it was reflected in the work of the chief English poets. The course continues throughout the year, and students who elect it must plan to take it as a whole. Credit will not be granted for a fractional part of the work without the previous consent of the instructor to take the course for a single term only.

A. Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats. Fall term.
B. Landor, Tennyson, and Browning. Winter term.
C. Mrs. Browning, Clough, Arnold, Rossetti, Morris, and Swinburne. Spring term.

Not offered in 1927-1928.

317. The English Epic. 3 or 4 term hours. Fall term. Dr. Brown.

A study of the general characteristics of the epic. The class will make a careful study of Paradise Lost. Selections will be read from other epics for comparative study.

322. Browning. 4 term hours. Summer terms only. Mr. Sprau.

This course is for those advanced students who care enough for Browning’s poetry to study it carefully. Primarily for third and fourth year students specializing in English, or electing it in place of foreign language.

323. Advanced Rhetoric. 4 term hours. Offered each term. Mr. Foley.

In this course some attention is given to the historical background and method of development of the language. Such subjects as point of view, fashion in language, euphemism, poetic imagery, and shifting meanings of words are studied, with a view to illuminating much that lies back of literary expression, and to sharpening and vivifying the student’s appreciation of literature. It is taken for granted that those who enroll in the course have had considerable work in English or in foreign language.

325 A, B. Eighteenth Century Prose. 6 term hours. Fall and Winter terms. Mr. Foley.

This course involves the reading of a variety of types in the non-fiction prose of the eighteenth century, with attention to the ideas and ideals voiced by the leading English writers of that time. The course extends through the fall and winter terms. Without the previous consent of the instructor, credit cannot be given for a single term. Not offered in 1927-1928.

A. Defoe, Swift, Steele, and Addison.
B. Johnson, Hume, Goldsmith, Burke, and Boswell.

333. Lives and Letters of English Authors. 4 term hours. Prerequisite: freshman or sophomore courses in English literature. The instructor’s consent is required. Dr. Brown.

This course will combine a detailed study of the Wordsworths, the Carlyles, and others, with wide reading in biography and letters. Reports and critical essays will be required. By special arrangement this course may be substituted for one of the units in Group I of the A.B. curriculum.

338 A, B. Modern Drama. 2 term hours each term. Winter and Spring terms. Offered in alternate years with The English Drama 308. Miss Eicher.
A study of the plays of Ibsen, Pinero, Jones, Galsworthy, Shaw and others, with a careful inquiry into the relation between the continental, English, and American drama. Not offered in 1928.

405 A, B, C. Nineteenth Century Prose. 12 term hours. Four hours a week throughout the year. Offered in alternate years with English 309 and under the same conditions. Mr. Sprau.

A. Coleridge, Lamb, Hazlitt, Hunt, and Landor.
B. DeQuincey, Macaulay, Carlyle, and Newman.
C. Ruskin, Arnold, Huxley, Pater, and Stevenson.
Offered in 1927-1928.

406. Anglo-Saxon.


The purpose of Anglo-Saxon 406 is to give the student some acquaintance with Old English grammar and Old English forms as a foundation for more thorough study and understanding of Modern English, and to give him a clearer conception of early English literature. Bright's Anglo-Saxon Reader is used as a text, supplemented with wide reading in translation from early English literature, and in the history of the period. Required of students who major in English in the A. B. curriculum.

In Chaucer 407, as much as possible of Chaucer's poetry is read in the original with special attention to pronunciation, grammar, and meter. The life and time of Chaucer are carefully studied as an aid to the interpretation of his poetry. A generous amount of reading in the literature of the Middle English period is required. Required of students who major in English in the A. B. curriculum.

415. Literary Criticism. 4 term hours. Winter and Spring terms. Mr. Sprau.

A careful study of the fundamental principles of literary criticism, supplemented with wide reading in English critical essays. Each student writes several short criticisms. The work of the course is arranged to develop in the student a careful critical judgment and to cultivate the habit of careful criticism.

431. Wordsworth. 4 term hours. Summer terms only. Mr. Sprau.

The work of the course consists of as careful a study of the life and poetry of William Wordsworth as the time will permit. Open only to juniors and seniors and to such sophomores as have been given special permission to take the course.

230. The English Conference.

One evening each week during the winter, members of the faculty who are especially interested in teaching English and students who are specializing in English meet together to discuss the problems that confront the teachers of English. The meetings are open to all who care to attend.

GEOGRAPHY AND GEOLOGY

Students preparing to teach in the grades or the junior high school should elect courses 101A and 101B in the freshman year if possible. These courses are prerequisite for many of the other courses offered by the department. Economics 201 A, B, should be elected by all students who plan to specialize in geography.
A major sequence in geography must include courses 101A, 101B, 212, and at least two courses in regional geography.

A minor sequence in geography may consist of courses 101A, 101B, and one of the courses 105, 203, 204, 205, 210, 212, 301, 310; or it may include courses 209, 210, and one regional course.

Students preparing to teach general science should elect in this department either courses 101A and 101B, or 101A, 305, and 320A.

For students specializing in history, courses 101A, 101B, and 310 are recommended.

Students taking a three or four year curriculum with sequences in nature study and geography should elect in this department courses 101A, 101B, 212, 306, 320A, and at least two regional courses.

Geography

101A. Elements of Geography. 4 term hours. Offered each term. Miss Harrison, Miss Strunk.

An introductory study of the mutual relationships between man and the natural environment with special emphasis upon types of climate and some of the adjustments which man makes to climatic conditions in selected regions.

101B. Elements of Geography. 4 term hours. Prerequisite: Geography 101A. Offered each term. Miss Boswell, Miss Strunk.

An introductory study of the mutual relationships between man and the natural environment with special emphasis upon adjustments to location, land forms, soils, minerals, ground and surface waters, oceans and coast lines in selected regions. An elementary study is made of map projections.

103. Geography for the Early Elementary Grades. 2 term hours. Fall term. Miss Boswell.

Life of typical primitive peoples in relationship to their environment; primitive industries and their development; simple phases of the economic life of progressive people. An acquaintance will be made with the literature of this field.

Note.—Open only to students enrolled in the Early Elementary curriculum and should not be elected by any who desire more than one course in geography. Students may not elect both 103 and 101A except with diminution of credit.

105. Geography of the United States and Canada. 4 term hours. Prerequisite: Geography 101 A, B. Offered each term. Miss Boswell, Mr. Wood.

A study of the two countries by geographic regions.

201. Michigan and the Old Northwest. 4 term hours. Spring term. Mr. Wood.

The geology, climate, soils and minerals, vegetation, fisheries, lakes, resorts and scenic features, all in relation to the historical and industrial development of the region. The course includes a study of the glaciation and industries in the vicinity of Kalamazoo.

203. Geography of Europe. 4 term hours. Desirable antecedents: Geography 101 A, B. Fall and Winter terms. Mr. Wood.

The relation of the continent to the world as a whole, its physical features, climates, resources, and the relationship between these natural environmental conditions and the development and present social, industrial and commercial life of its leading nations.
204. Geography of South America. 4 term hours. Desirable antecedents: Geography 101 A, B. Spring term. Miss Harrison.

The relationships between the combination of environmental conditions existing in each of the major geographic regions of the continent and the economic activities carried on therein. The place of South America in world trade, with special emphasis upon the commercial relations between this continent and the United States.

205. Geography of Mexico and the Caribbean Area. 4 term hours. Desirable antecedents: Geography 101 A, B. Winter term. Miss Harrison.

It is the aim of this course to give the student such an acquaintance with the geography of these countries and islands as will enable him to understand the economic development of each, and to follow intelligently the trend of political events within them.

209. Elements of Geography. 4 term hours. Fall terms. Miss Strunk.

Similar in scope to courses 101A and 101B. Open only to students in the Department of Commerce. Credit will not be given for both 209 and 101A, B.


The geographic factors underlying commerce and industry; the geography of the major industries; the principal trade routes of the world and the commerce which passes over them; great trade centers and the geographic reasons for their importance.

212. The Teaching of Geography in the Grades. 4 term hours. Pre-requisite: Geography 101 A, B. Open to qualified freshmen with consent of instructor. Offered each term. Miss Strunk.

Objectives in the teaching of geography, evaluation and technique of visual aids, organization and presentation of textual material, geographic tests.

301. Geography of Southeast Asia and Australasia. 4 term hours. Pre-requisite: Geography 101 A, B, and one regional course. Spring term. Miss Strunk.

The geography of southeast Asia, the Philippine Islands, the Dutch East Indies, Australia, and New Zealand. The organization of geographic material will receive emphasis.

306. Meteorology. 4 term hours. Prerequisite: Geography 101A or consent of instructor. Winter term. Miss Harrison.

The causes underlying the daily changes in temperature, pressure, wind direction and force, humidity, cloud phenomena, precipitation, and the major types of storms. Among the goals sought are an understanding of weather conditions, the acquisition of some ability in weather forecasting, and an appreciation of some of the relationships existing between weather conditions and human activities.


A detailed study of the elements which combine to form climate, the interpretation of climatic data, essential features of the main types of climate. Emphasis is placed on the climates of the United States.
310. The Historical Geography of the United States. 4 term hours. 
Prerequisite: Geography 101 A, B and History 101 A, B or equivalent. 
Open to qualified sophomores with consent of instructor. Fall term. 
Miss Harrison.

A study of the relations between the natural environmental elements and the 
settlement and development of the United States.

Geology

207. Geology. 4 term hours. Spring and Summer terms. Mr. Wood.

An introduction to earth history. It includes a brief study of the earth's 
physiography, climate, minerals, genesis of ore deposits, the origin of the earth, 
the evolution of plants and animals, the origin of mountains, and the history 
and growth of the continents.

Note.—This is an appreciation course similar to survey courses in chemistry and 
bioogy, and should not be elected by students desiring a year's work. Such stu-
dents should elect Geology 320 A, B, C.

320A. Geology. 4 term hours. Fall term. Mr. Wood.

A study of the origin of the features of the surfaces of the earth, the materials 
of which they are made, and the processes by which they are formed. It 
includes the topics of glaciation, the work of streams, underground water, and 
wind, vulcanism, and formation and recognition of common rocks and minerals.

320B. Geology. 4 term hours. Prerequisite: Geology 320A. Course 207 
may be substituted with consent of instructor. Winter term. Mr. 
Wood.

A study of ore deposits and the nature of the earth's interior, the origin of the 
earth, and the early periods of its geological history.

320C. Geology. 4 term hours. Prerequisite: Geology 320 A, B. Spring 
term. Mr. Wood.

A continuation of the geological history of the earth; the ancient history of 
plants and animals; the study of fossils; the growth of the continents up to their 
present forms as habitable lands.

Note.—Students who elect Geology 207 and 320 A, B, C will receive a total of but 12 
term hours of credit for the four courses.

HISTORY AND SOCIAL SCIENCE

"History and Social Science" is a group title including four separate and 
distinct departments, namely: history, political science, economics, 
and sociology. Curriculum advisers should bear this fact in mind in helping 
students plan their work. It is frequently desirable that students majoring 
in one department of this group should minor in another. Candidates for the 
A.B. degree who major in any department of this group are advised to take a 
minimum of nine hours in each of the other co-ordinate departments in the 
group.

Students preparing to teach "Community Civics," "Problems of Democ-

racy," and similar subjects, are advised to take in addition to United States 
History 101 A, B, C, Political Science 201 A, B, Economics 101A, and Sociology 
201 A, B, or nine hours in any one of the latter three departments.

History

101A. United States History to 1789. 4 term hours. Offered each term. 
Miss Barnett, Mr. Burnham, Dr. Knauss, Dr. Russel, Mr. Trumble.
Starting with the European background of American history, this course treats the origin and growth of the colonies, discusses their relation to the mother country, and shows why and how the independence of the United States was established. Special attention is given to the causes and course of the Revolution and to the beginnings of state and national government.

101B. United States History, 1789-1865. 4 term hours. Offered each term. Miss Barnett, Mr. Burnham, Dr. Knauss, Dr. Russel, Mr. Trumble.

This course treats American history from the inauguration of Washington to the close of the Civil War. The organization of the government under the Constitution, the rise of political parties, the movement into the West, the influence of the frontier, the industrial revolution and its consequences, the rising tide of democracy, the slavery controversy, the sectionalization of the country, and the Civil War are among the chief topics studied.

101C. United States History, 1865 to the Present Time. 4 term hours. Offered each term. Miss Barnett, Mr. Burnham, Dr. Knauss, Dr. Russel, Mr. Trumble.

A study of the leading movements in American history since the Civil War. Reconstruction, industrial development, the coming of big business, the organization of labor, the settlement of the far west, recent industrial, social, and political problems and the efforts to solve them, America as a World Power and its part in the Great War are the chief topics in this course.

102. History of Greece. 4 term hours. Fall term. Mrs. Johnson.

After a brief survey of ancient Oriental civilization, this course studies the political, social, and cultural life of the Greek people from their earliest history to the breaking up of the Empire of Alexander the Great. Emphasis is placed upon our debt to the Greeks for the elements which they contributed to modern civilization.


This course traces the history of Rome from the earliest times to the fall of the Empire in the West. The development of early Roman institutions, the expansion of Roman power over the Mediterranean World, the transition from the Republic to the Empire, and the social, political, legal, and cultural life of imperial Rome are the chief topics emphasized.


The Teutonic invasions and their results, Charlemagne's empire, the rise and nature of feudailism, the medieval church and its work, the social and intellectual life of the period, the Crusades, the rise of cities, the development of commerce, and the Renaissance.

105A. English History, 55 B.C.-1603. 4 term hours. Fall term. Dr. Russel.

A study of the origin and growth of English nationality, early Britain, Anglo-Saxon institutions, Norman centralization, rise of the common law, limitation of monarchy, decay of feudalism, commercial development, separation from Rome and the Anglican Establishment, sea power and nationalism during the Elizabethan era.

105B. English History, 1603-1815. 4 term hours. Winter term. Dr. Russel.
The struggle for Parliamentary supremacy, the Great Civil War and the Revolution of 1688, England and the Continental powers, the wars of the eighteenth century, colonial expansion, the American Revolution, opposition to France during the Napoleonic era.

105C. **English History, 1815-1927.** 4 term hours. Spring term. Dr. Russel.

The development of the British Empire, Parliamentary reform and the growth of democracy, foreign trade and industrialism, the labor movement, the self-governing dominions, imperialism, the Irish question, the Great War and subsequent adjustments.

201A. **Modern Europe, 1500-1763.** 4 term hours. Fall term. Dr. Scott.

A study of the Reformation and the religious wars which followed it, the struggle between Spain and England, the rise of the Dutch republic, the growth of absolutism in France, the establishment of parliamentary supremacy in England, the rise of Russia and Prussia, and the world conflict between France and Great Britain.

201B. **Modern Europe, 1763-1870.** 4 term hours. Winter term. Dr. Scott.

European life in the eighteenth century, the French Revolution, the era of Napoleon, the industrial revolution, reaction after 1815, the rise of democracy and nationality in the nineteenth century.

201C. **Modern Europe, 1870-1927.** 4 term hours. Spring term. Dr. Scott.

The history of the Third French Republic, political and social reform in England, the German Empire, the problem of the Near East, the expansion of Europe in Asia and Africa, international relations, the World War and since.

202. **The Teaching of History.** 4 term hours. Prerequisite: two college courses in history. Offered each term. Mr. Burnham.

This course is intended for students in the Later Elementary and Junior High School groups. It deals with the aims, content, organization, presentation, and testing of history in the grades. The evaluation of texts, the planning of lessons, the selection and gradation of collateral reading, the correlation of history with the other branches of the curriculum and with the various activities of the school will receive attention.

301A. **United States History, 1783-1815.** 3 term hours. Fall term. Mr. Burnham.

This course begins with the Critical Period in American History and treats in detail the making of the Constitution, the organization of the government under it, the reign of Federalism, the triumph of Jeffersonian democracy, and the influence upon America of the Revolutionary and Napoleonic wars in Europe.

301B. **United States History, 1815-1848.** 3 term hours. Winter term. Mr. Burnham.

The rise of the Middle West, the growth of democracy, the tariff, internal improvements, banking, slavery and anti-slavery, and territorial expansion to the Pacific are among the topics studied.

301C. **United States History, 1848-1865.** 3 term hours. Spring term. Mr. Burnham.

This course treats the rise of sectionalism, the struggle over the extension of slavery into the territories, the crisis of 1860, the Southern Confederacy, and the Civil War.
302. Economic Development of Modern Europe. 3 term hours. Fall term. Dr. Knauss.
A study of the origin and development of the economic institutions of the present day with particular references to European development since 1500.

Analysis of our economic development from colonial times to the present. Such forces and factors as the westward movement, the industrial and agricultural revolutions, the tariff and public finance, conservation and allied topics will be considered.

304. Latin American History. 3 term hours. Spring term. Dr. Knauss.
A survey of the history of the Latin American countries. Particular attention will be given to the political, the economic, and social institutions and problems of Latin America.

305. International Relations, 1850-1914. 3 term hours. Fall term. Dr. Scott.
The foreign relations of the Great Powers and the history of their expansion into the less developed areas of Asia, Africa, the Pacific, and Latin America will be treated in this course in their political, economic, and social aspects.

306. The World War. 3 term hours. Prerequisite: International Relations 305. Winter term. Dr. Scott.
This course deals with the causes and nature of the Great War, describes its military and other aspects, and traces the history of the negotiations for peace. A special study is made of the development of the machinery for international action—arbitration, the Hague Conferences, the World Court, and the League of Nations.

307. Reconstruction in Europe. 3 term hours. Spring term. Dr. Scott.
Political reconstruction in Europe during and since the Great War; the break up of the central empires, the process of building up new states, the economic and social problems facing post-war Europe, and the means used in the efforts to solve them.

Political Science

A college course in the history of the United States is prerequisite to all courses in this department.

201A. National Government. 4 term hours. Fall term. Mr. Shilling.
A study of the national government of the United States including its structure, functions, and operations.

201B. State and Local Government. 4 term hours. Winter term. Mr. Shilling.
Since the citizen has many contacts with the state, city, or county government, an effort will be made to acquaint the student with the organization, aims, and problems of state, county, and municipal government.

201C. Practical Politics. 4 term hours. Prerequisite: Government 201A or B. Spring term. Mr. Shilling.
A detailed study of the nature and activities of political parties of the United States, including rise, development, and mechanism. Elections, ballots, and civil service are given emphasis.

301 A, B. Comparative Government. 6 term hours. Prerequisite: Government 201A and B, or History of Modern Europe. Fall and Winter terms. Mr. Shilling.

This course aims to acquaint the student with the structure, problems, and workings of the governments of the more important European countries. During the fall term the British Empire is studied; in the winter term France, Germany, Italy, Russia, and Switzerland. In the study of each country, problems of administration, civil service, taxation, and foreign relations receive special emphasis.

301C. History of Political Thought. 3 term hours. Prerequisite: Government 301 A, B. Spring term. Alternates with 302. Not offered in 1928. Mr. Shilling.

A survey of the political thought of peoples from ancient times to the present. Special emphasis is given the contributions of the Greeks and Romans, political theory of struggle between church and state, the Reformation, the Puritan Revolution and the revolutionary periods in America and Europe. Recent political thought as influenced by the industrial revolution, nationalism, imperialism, and internationalism.

302. American Municipal Government. 3 term hours. Prerequisite: Government 201B. Alternates with 301C. Mr. Shilling.

Attention is focused on the problem of city government, growth of cities, types of city organization, municipal functions and finances, administrative personnel, public utilities, and public conveniences.

Economics

101. Introduction to Economics. 5 term hours. Offered each term. Mr. Moore.

Gives a background of business information that will develop an interest in and prepare for further study in this field. For the student with but one course in the subject, it will be of practical value in interpreting the business aspects of his profession. Primarily descriptive of productive industries, production and marketing methods, corporations, methods of transportation, the work of banks, insurance companies, labor organizations, and other agencies as they function in the modern business world. Economic principles are not presented. Designed primarily for those who wish to major in this department but have had no economics in high school, and for those who care for only one term in the subject.

201 A, B. Principles of Economics. 8 term hours. 201A offered each term. 201B offered Winter and Spring terms. Mr. Bigelow, Mr. Moore.

A study of the fundamental principles of economics and their application to some of the more important of our present economic problems. Its purpose is to acquaint the student with the underlying forces and generally accepted laws which govern our economic life, and to train him in methods of straight thinking which will enable him to get at the heart of economic problems which face every individual in his own daily life and in the fulfilling of his duties as a citizen.

A survey course designed to present the essential features of the modern financial system upon which business rests, and to enable the student to obtain an understanding of the economic functions performed by each of the numerous financial institutions,—investment banks, stock exchanges, commercial banks, trust companies, savings institutions, commercial paper houses, discount companies, Federal Reserve and Federal Farm Loan institutions,—which together comprise this system.

203. Labor Problems. 4 term hours. Prerequisite: Economics 201 A, B. Fall and Spring terms. Mr. Bigelow.

An analysis of the nature and underlying causes of the problems facing the worker in modern economic society, followed by a consideration of the attempts which have been made at their solution by employers and public as well as by the workers themselves. Present methods are evaluated in the light of underlying economic principles in order to develop sound thinking about these problems.

301 A, B, C. Public Finance. 6 term hours. Prerequisite: Economics 201 A, B. (Work in government may be substituted in special cases by permission of the instructor.) Twice a week throughout the year. Offered in alternate years with Corporations 303. Offered in 1927-1928. Mr. Bigelow.

A study of public expenditures, revenues, debts, and problems of fiscal administration. Deals with the characteristics of and trends in public expenditures, the sources of government income, the principles and problems of taxation, an analysis of typical modern taxes such as the general property tax, the income tax, the inheritance tax and customs duties, the use of public credit, and the budget system and other methods of fiscal administration.

302 A, B, C. General Business Administration. 6 term hours. Prerequisite: Economics 201 A, B. Twice a week throughout the year. Offered in alternate years with Marketing 304. Offered in 1927-1928. Mr. Moore.

This course deals with the elementary principles of internal organization and management of industrial enterprises. Since many of the problems of school administration are similar to, if not identical with, the problems of the business concern, this course is designed to be helpful to prospective school principals and superintendents, as well as to the student majoring in the economic field. It includes a discussion of the nature of modern industry; plant location, layout and types of construction; material equipment and power; planning and routing; statistics and accounting; marketing methods and problems; production, management; personnel administration; purchasing, traffic, credit, and collections.

303 A, B, C. Corporations. 6 term hours. Prerequisite: Economics 201 A, B. Twice a week throughout the year. Offered in alternate years with Public Finance 301. Not offered in 1927-1928. Mr. Bigelow.

A study of the place of the corporation in modern business life. Consideration is given to the problems of organization, direction, finance, and control from the point of view of the promoter, the manager, the creditor, the investor, and the public.

304 A, B, C. Marketing. 6 term hours. Prerequisite: Economics 201 A, B. Twice a week throughout the year. Offered in alternate years with General Business Administration 302. Not offered in 1927-1928. Mr. Moore.

A study of the principles, methods, and problems of marketing. The following are some of the topics covered; the marketing functions, the marketing of
farm products, raw materials and manufactured goods; the operation of middle-
men, and their place in the market structure; retail types and policies; con-
ssumer and producer co-operation; market finance; brands and trade names;
specialization; price maintenance; unfair competition; cost of marketing; prices
and price factors; general criticism of existing market structure and proposals
for its reform.

Sociology

Sociology is now generally recognized to be as important a requisite as any
in the education of teachers, and the following courses are designed to
meet the needs of teachers as well as the needs of those who are interested in
social theory and its application to problems other than those of teaching.
Students who desire to major in Sociology or who expect to take two full years' work are urged to take the courses in the order in which they are named. Students who are planning to teach Community Civics should elect at least the following courses: 201A Society and the Individual, 201B Social Organization, 301B Social Pathology.

103. Sociology. 4 term hours. Elective for freshmen only. Offered each term. Dr. Burnham.

A study of social relations and activities in small communities. An elementary textbook in general sociology and a text dealing specifically with village and country life are used. A collection of source materials illustrating the co-operation of teachers and schools in local activities is available.

201A. Society and the Individual. 4 term hours. Offered each term. Dr. Terpenning.

A discussion of the psychological approach to the study of sociology. It includes some consideration of the bearing of the evolutionary theory on sociological thought, and takes up such subjects as suggestion and choice, sociability and personal ideas, sympathy, the social self, hostility, emulation, leadership, conscience, degeneracy, and freedom.

Note.—Courses 201 A, B, C constitute a year's work in social theory. All three terms should be, and the second and third terms must be, taken consecutively. During the year students will be required to make an original application of the principles of the course in the form of a thesis.

201B. Social Organization. 4 term hours. Prerequisite: Sociology 201A. Offered each term. Dr. Terpenning.

The group phase of the organic relation between society and the individual is presented in connection with such subjects as the following: primary groups and the ideals which develop in them; the importance of communication in the extension of primary ideals to the more elaborate groupings; systems of idealism such as Democracy and Christianity; the organization and function of social classes; the nature, functions, and dangers of institutions; the importance and control of public will.

See note under course 201A.

201C. Social Process. 4 term hours. Prerequisite: Sociology 201 A, B. Spring term. Dr. Terpenning.

A study of advanced social theory. Consideration is given to the nature of the process of social evolution and its relation to degeneration, conflict and co-operation, valuation, and intelligence.

See note under course 201A.

301A. The History of Social Thought. 4 term hours. Prerequisite: Social Organization 201 A, B. Fall term. Dr. Barnes.
This course undertakes to trace the important contributions to social thought from the sayings and proverbs of the most ancient people of whom we have any record up to the present time.

Note.—Courses 301 A, B, C, D may be taken separately and they may be taken in any order by students who have had the prerequisite courses.

301B. Social Pathology. 4 term hours. Prerequisite: Sociology 201 A, B. Winter term. Dr. Barnes.

A study of pathological or diseased aspects of modern society from the point of view of fundamental causes and scientific remedies. Poverty, delinquency, divorce, unemployment, insanity, crime, and kindred subjects will be considered.

See note under course 301A.

301C. The Family. 4 term hours. Prerequisites: 201 A, B. Spring term. Dr. Barnes.

A historical study of the institution of marriage, followed by a careful analysis of modern family disorganization and its social significance.

See note under course 301A.

301D. Criticism of Utopian Thought. 4 term hours. Prerequisite: Sociology 201 A, B. Spring term, 1928. Dr. Barnes.

A discussion of Utopias from Plato and the Hebrew prophets to Samuel Butler and H. G. Wells, with especial reference to modern conditions. Anarchy, socialism, and syndicalism, will be briefly considered in the light of past Utopias. Each student will write an original Utopia embodying his own constructive views and criticisms of modern society.

See note under course 301A.

HOME ECONOMICS

Students specializing in Home Economics must take all of the following courses except any that are marked elective. Their numerical order should be observed unless permission is granted by an adviser to vary this order.

Cookery

102. Introductory Home Economics. 2 term hours. Fall term. Miss Moore.

A foundation course aiming to give a background for all future work in foods and cookery.

104. Foods. 4 term hours. Prerequisite: Home Economics 102. Winter and Spring terms. Miss Moore.

A study of the fundamental principles of cookery, methods of preparation, with laboratory practice in foods used in the home.


A general discussion of the essentials of an adequate diet; application of such knowledge to the feeding of individuals and family groups and the planning of typical dietaries.

A study of the home, family relationship, and administrative problems.


The purpose of this course is to give students a basis for the selection and organization of subject matter preparatory to teaching Home Economics. Study is made of the general aims and methods of teaching these subjects and the construction and use of illustrative material.

210. **Home Economics.** 2 term hours. Offered each term. Miss Walton.

This course is planned for those specializing in other departments than Home Economics. Problems in food preparation, and the planning and serving of food for various occasions.

212. **Home Nursing.** 4 term hours. Fall and Winter terms. Miss Walker.

Prevention and care of illness in the home, including simple nursing procedures and first aid treatment for common household emergencies.


The teaching of classes in Home Economics in campus and other training schools.


Problems in planning, marketing, preparing and serving meals in the home. Demonstration of cookery processes.

**Clothing and Textiles**

101. **Introductory Home Economics.** 2 term hours. Fall term. Mrs. Schumacher.

An introductory study of the scope of Home Economics. Clothing appreciation is taught by lecture, text books, and in the making of illustrative material.

Note.—Required of Freshmen parallel to Home Economics 102.

103. **Clothing.** 4 term hours. Prerequisite: Home Economics 101. Winter and Spring terms. Mrs. Schumacher.

One-half of the term is spent in the study of textiles, with respect to their cost, quality and use. The remaining time is devoted to garment construction. Fundamental principles of sewing are applied in the making of simple garments.

205. **Clothing.** 4 term hours. Prerequisite: Introductory Home Economics 101, Clothing 103. Fall term. Miss Walker.

A construction course with the emphasis on technique of fitting and finishing. The problems include the making of a paper dress-form, and its use in fitting tailored garments.
207. Clothing. 4 term hours. Prerequisite: Introductory Home Economics 101, Clothing 103, Clothing 205. Winter or Spring terms. Mrs. Schumacher, Miss Walker.

Advanced dressmaking, including modeling or draping on the form. Original and copied models are carried out in the finer materials. Special attention is given to the application of art principles in dress design and dress decoration.

210. Clothing Elective. 4 term hours. Winter and Spring terms, or as scheduled. Mrs. Schumacher, Miss Walker.

A course for non-specializing students. Clothing appreciation and garment construction are taught to help the student of any department to clothe herself appropriately and economically.

215. Millinery. 4 term hours. Prerequisite: Introductory Home Economics 101, Clothing 103. Fall or Spring terms. Miss Walker.

Fundamental millinery processes. Study of line and design in the making of inexpensive hats. Blocking, draping, and all newer methods of making the frameless hat are done in paper models and real materials.

Note.—This course is open to other than Home Economics students upon recommendation of the adviser.

311. Special Problems in Advanced Clothing. 4 term hours. Prerequisite: Introductory Home Economics 101, Clothing 103, Clothing 205, Clothing 207. Mrs. Schumacher.

Opportunity is given in this course for advanced work in textiles, dress decoration, children's clothing, etc. Special work in methods of teaching in relation to laboratory practice.

103 A, B, C. General Chemistry. (See description of course in Chemistry Department, page 71.)

106. Household Arts Design. (See description of course in Art Department, page 61.)

LATIN

100 A, B, C. Elementary and Second-Year Latin. No credit or 12 term hours.

This course is designed for those students who need two units of Latin for admission to the A.B. curriculum, or to a medical, dental, or other professional course. It covers the work of two units of high school language requirement. One unit of high school Latin may be applied, provided the remainder of the course is taken here.

101 A, B, C. Cicero and Latin Composition. 12 term hours. Prerequisite: two units of high school Latin or Course 100. Miss Hoebeke.

The reading of four orations of Cicero and several of his letters along with a study of the political institutions of the Roman Republic; also the reading of selections from Ovid's Metamorphoses. Latin composition once a week throughout the year.

102 A, B, C. Vergil. 12 term hours. Prerequisite: Three units of high school Latin or course 101. Miss Kraft.

The first six books of the Aeneid will be read, or selections from Ovid's Metamorphoses may be substituted for a part of the work. A study of Greek and Roman mythology will accompany the reading.
103 A, B, C. Latin Literature. 12 term hours. Miss Kraft.

A study of Roman literature with rapid reading of representative Latin authors, and a detailed study of the following:
A. Selections from Ovid. Cicero’s De Senectute. Fall term.

106. Teachers’ Course. 4 term hours. Spring term. Miss—

This course treats of the problems of the first two years of high school Latin. Observation of actual teaching and reports and discussions will form a part of the work. All students specializing in Latin are required to take this course.

107. Latin Writing. 4 term hours. Winter term. Miss—

Practice in the fundamental principles of correct expression in Latin. Should be elected by all students specializing in Latin.

204 A, B. Horace. 8 term hours. Fall and Winter terms. Miss Kraft.

A. Odes and Epodes. Fall term.
B. Satires and Epistles. Winter term.

204C. Latin Comedy. 4 term hours. Spring term. Miss Kraft.

A study of the rise and development of Latin Comedy, and the reading of selected plays of Plautus and Terence.

305A. Catullus, Tibullus, and Propertius. 3 term hours. Fall term. Miss—

Selected readings from the elegiac poets of the Augustan Age, together with a study of the history of the period.

305B. Martial and Juvenal. 3 term hours. Winter term. Miss—

305C. Selections from Lucretius. 3 term hours. Spring term. Miss—

108. Mythology. 4 term hours. Fall and Winter terms. Miss Zimmerman.

A study of the mythology of Greece and Rome, with wide reading in English literature treating of these myths, and special reference to their use in the teaching of children.

LIBRARY

Library Methods. Non-credit course. Offered each term. Miss French.

A course of ten lessons on the use of the library. Required of all freshmen.

MANUAL ARTS

99. Elementary Woodwork. High school credit only. Fall and Summer terms. Mr. Sherwood.

A beginner’s course in the fundamentals of hand woodworking. Care and use of the common bench tools, and simple wood finishing. Designed particularly to prepare the student of limited experience for shop courses of college grade and required of all students who have not had this work in accredited high schools.
99. **Mechanical Drawing.** High school credit only. Fall and Summer terms. Mr. Huff.

Lettering, technical sketching, working drawings of simple objects, involving top, front, and end views, invisible edges, sections, auxiliary views, tracing, inking, and blue printing as outlined by the State of Michigan Course of Study in Mechanical Drawing for high schools. Required of all manual arts students who have not had a satisfactory course in high school mechanical drawing.

102A. **Household Mechanics.** 4 term hours. Fall and Winter terms. Mr. Tabraham.

A course in the selection and use of tools and materials and the operation and repair of mechanical devices used in maintaining the modern home. Practical problems in repairing door bells, electric flatirons, plumbing, glazing, painting, soldering, and carpentry. Suitable equipment lists for new household mechanics installations as well as for the converted woodshop type.

102B. **Household Mechanics.** 4 term hours. Prerequisite: Household Mechanics 102A. Spring term. Mr. Tabraham.

A more advanced study of tools and materials in the maintenance of the household with emphasis on the development of job sheets, and a detailed study of the theory of modern household appliances. Of particular interest to those preparing to teach household mechanics.

103A. **Advanced Benchwork.** 4 term hours. Prerequisite: Elementary Woodwork 99 or the equivalent. Fall and Winter terms. Mr. Sherwood.

A more advanced course in woodworking with particular emphasis on technique of hand tools, grinding and sharpening. Includes elementary pattern making and molding.

103B. **Pattern Making.** 4 term hours. Prerequisite: Advanced Benchwork 103A or the equivalent. Spring and Summer terms. Mr. Sherwood.

A continuation of course 103A involving both pattern making and foundry practice. Special emphasis is placed upon accuracy of workmanship and general technique, as well as the educational principles involved. Visits to commercial shops and foundries are made to articulate more effectively this work with modern industrial practices.

108. **General Metal.** 4 term hours. Winter and Summer terms. Mr. Weaver.

A course offering information regarding the metal industries and the status of industrial workers in the various trades. The organization and presentation of material is based on a number of unit activities which familiarize the individual with different metals and their useful purposes. Processes in forging, heat treating, welding, soldering, brazing, plating, spinning, stamping, etching, riveting, machining, fitting, and polishing are demonstrated and worked out in several metals.

111A. **Mechanical Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 99 or the equivalent. Fall and Winter terms. Mr. Huff.

111B. **Mechanical Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 111A. Spring term. Mr. Huff.

More advanced problems in mechanical drawing, detailing, design, theory and application, ranging from simple geometrical problems through surface development to machine details, cams and gears. Special emphasis on review of the fundamentals of drawing, discussion of teachers' problems and practical problems.

112. **Mechanical Drawing.** 4 term hours. Spring term. Mr. Huff.

Primarily for Art students. Short intensive study of tool technique, lettering, geometric problems, orthographic projection, isometric drawing, machine details, and some architectural drawing, tracing, and electric blue printing.

116A. **Printing.** 4 term hours. Fall and Summer terms. Mr. Pullin.

This course is for beginners and is intended to acquaint the student with the various tools and materials of a print shop and to teach him the fundamentals of plain type composition, as he carries simple jobs through the various stages from composition to making ready and putting on the press and feeding. Practical work is given in setting straight composition and simple forms.

116B. **Printing.** 4 term hours. Prerequisite: Printing 116A. Winter and Summer terms. Mr. Pullin.

This is a continuation of course 116A in which proportion and balance are emphasized, including a study of typefaces. Practical work is given in the composition of more complicated pieces of printing which involves rule work, borders and ornaments. Practical work is given in make-ready of forms on press and feeding.

116C. **Printing.** 4 term hours. Prerequisite: Printing 116A, 116B. Spring and Summer terms. Mr. Pullin.

Advanced work in the complete designing and producing of printed matter with a study of plates, papers, and inks. Advanced imposition and presswork.

142. **Auto Mechanics.** 2 term hours. Offered each term. Mr. Tabraham.

An elementary course consisting of lectures and demonstrations but no laboratory work covering the various parts of the modern automobile, their relation and operation. Ignition, lubrication, minor adjustments and repairs will be included. Of particular interest to new drivers.

Note.—This course should be elected only by students desiring but an elementary knowledge of the subject. Course 242A should be elected by those who desire broader knowledge.

201. **Mechanical and Machine Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 99 or equivalent. Fall and Summer terms. Mr. Huff.

This course is the same as Drawing 1 of the Engineering Department, University of Michigan, and it fits the requirement of future engineering students and teachers of Mechanical Drawing. Special attention is given to orthographic projection, detailing assemblies, and other fundamentals of drafting.


This course is the same as Drawing II of the Engineering Department, University of Michigan. Instruction and exercises are given on combinations of the point, line, and plane, intersections, developments, tangent planes and warped surfaces.

An elementary course in the fundamentals of woodturning. It includes spindle and oval turning, chuck, faceplate, and sphere turning. Special attention is given to tool grinding and the care of various types of wood lathes. Organization of a course of study.

204B. **Wood Turning Design.** (See description of course in Art Department, page 62.)

205. **Woodshop.** 4 term hours. Prerequisite: Advanced Benchwork 103A. Fall, Spring, and Summer terms. Not offered 1927-1928. Mr. Nichols.

An introductory course in the use and care of woodworking machines. Special emphasis is given to the various types of machines and points to be considered in the buying of woodshop equipment. Much attention is given to jointer and surfacer grinding, band saw filing, and brazing, and circular saw fitting. Types of furniture construction are worked out through a series of fundamental problems.

207. **Woodfinishing.** 4 term hours. Fall and Summer terms. Not offered 1927-1928. Mr. Nichols.

The working out of the standard finishes, along with some of the more popular finishes now in vogue in industrial finishing, on a group of panels of the same woods as those used in the construction of modern furniture.

215 A, B, C. **Architecture.** 12 term hours. Prerequisite: one year of collegiate drawing. Begins Fall and Summer terms. Mr. Huff.

Plans, elevations, detailing, rendering, perspective, estimates, tracing and blueprinting of structures ranging from simple one-story buildings to original designs for modern homes. Special emphasis placed on practical work and architectural appreciation.

216. **Printing.** 4 term hours. Spring and Summer terms. Mr. Pullin.

Keeping of records and accounts. Purchase of materials. Planning and laying out equipment. School publications. Students will work out courses of study and original ideas intended to broaden the scope of the shop's work and increase its efficiency.

222. **Sheet Metal.** 4 term hours. Spring term. Mr. Weaver.

The application of hand and machine processes in cutting, forming, seaming, burring, crimping, notching, and wiring as applied to the making of tinware, spouts and gutters, large containers, and similar things.

224 A, B, C. **Machine Shop.** 12 term hours. Begins Fall and Summer terms. Mr. Weaver.

Advanced practice in machine tool construction, operation, and repair. Machine parts are finished and assembled, and considerable time is devoted to tool-making. A study is made of shop layouts and equipment, and a course is outlined for teaching machine shop practice.

226. **School Publication and Printing.** 2 term hours. Spring term. Mr. Pullin.

Intended for students who expect to handle school periodicals as a part of their work as teachers of English. The work is divided between various topics;
tools and materials of a print shop, the fundamentals of plane type composition, selection of paper stock, estimating and work dealing with the cost of printing of a school paper, and the study of good design in advertisements and make-up.

242 A, B, C. Auto Mechanics. 12 term hours. Four hours a week throughout the year. Mr. Weaver.

A study of the various parts of the automobile, such as axles, springs, transmission, poser plants, and repair jobs on these units. A thorough study of electricity as applied to the automobile, including storage battery repair, ignition, starters, generators, wiring, and lighting. Vulcanizing and welding are also taught.

Note.—Course 242A may be taken as a unit course any term. Not open to students who have received credit for course 142.

301. Shop Organization. 5 term hours. Winter, Spring, and Summer terms. Mr. Sherwood.

This course is planned to meet the needs of those students who have had considerable experience or training and who wish to organize this experience and adapt it to the needs and requirements of schools. Courses of study are worked out, with models and methods of class procedure. Shop arrangements, equipments, supplies, and inventories are carefully studied.

Note.—Open to sophomores in special cases only.


An advanced course in machine woodshop designed for those who wish to specialize in woodwork. This course includes more advanced problems in furniture construction and design. Some attention is given to caning and simple upholstery, wood steaming, and bending. In this course each student makes a layout of an ideal woodshop, equipping the same and setting the machine, putting in all power lines and openings. Much time is given to the selection of material and the organization of a course of study suitable for senior high school work.

MATHEMATICS

Courses in the department of mathematics are designed to meet the needs of students presenting three types of preparation in the high school. Freshmen electing work in mathematics for the first time should be careful to select from courses 100A, 103A, or 104A the one best suited to the amount of high school mathematics for which they have credit.

Students expecting to teach mathematics are advised to elect the professional courses in the teaching of mathematics best suited to their particular field. It should be noted, however, that the faculty of the department of mathematics is unanimously of the opinion that adequate appreciation of, and acquaintance with, subject matter is the first and inevitable step in the acquisition of professional skill in teaching. Professional preparation for teaching mathematics demands both academic accomplishment and training in proficiency of method, but in general the relative importance of these two types of education is in the order in which they are mentioned here. Students whose time is so limited as to permit of only partial preparation for teaching mathematics are advised to consult with members of the department as to the courses best adapted to their needs.

100A. Algebra Beginning with Quadratics. 4 term hours. Fall term. Mr. Bartoo, Miss Shaunding.

Designed for students who present for admission one year only of algebra. For those students it should precede all other courses in mathematics.
100B. **Solid Geometry.** 4 term hours. Winter term. Mr. Bartoo, Miss Shaunding.

    Designed for students who present one year of plane geometry, but who have not studied solid geometry.

100C. **Trigonometry.** 4 term hours. Offered each term. Mr. Ackley, Mr. Bartoo, Miss Shaunding.

    Plane trigonometry, trigonometric functions, identities, inverse functions, equations, solution of triangles by logarithms.

101. **Arithmetic.** 4 term hours. Prerequisite: high school algebra and geometry. Offered each term. Mr. Ackley, Mr. Blair, Mr. Everett, Miss Ford.

    Lectures and discussions on the history and teaching of the subject, with assigned reading. Extended treatment of typical problems of applied arithmetic.

102. **Teaching of Junior High School Mathematics.** 4 term hours. Prerequisite: high school algebra and geometry. Offered each term. Mr. Everett, Miss Ford.

    This course will consist of a series of talks and discussions, with assigned readings for junior high school teachers on the best methods of teaching mathematics in the seventh, eighth, and ninth grades. Such topics as the function concept, graphs, the transition from arithmetic to algebra, formulas, and the more modern business applications of the subject will be considered along with the more traditional material of these grades.

103A. **Trigonometry and Algebra.** 5 term hours. Fall term. Mr. Ackley, Mr. Bartoo, Mr. Blair.

    This course includes all of the work offered in course 100C and in addition an introduction to college algebra. Designed for students who wish to major or minor in mathematics and who have not taken trigonometry as a part of their high school course. Meets five times a week.

103B. **College Algebra and Analytic Geometry.** 5 term hours. Winter term. Mr. Ackley, Mr. Bartoo, Mr. Blair.

    A continuation of course 103A. Rectangular and polar co-ordinates, simultaneous linear equations and determinants. Meets five times a week.

103C. **College Algebra and Analytic Geometry.** 5 term hours. Spring term. Mr. Ackley, Mr. Bartoo, Mr. Blair.

    A continuation of course 103B. Completes substantially all of the work offered in 104B. Meets five times a week.

104A. **College Algebra and Analytic Geometry.** 4 term hours. Fall term. Mr. Everett, Miss Ford.

    Rectangular and polar co-ordinates, simultaneous linear equations, determinants, relations between straight lines. Designed for students who desire to major or minor in mathematics and who have taken trigonometry as a part of their high school course. Also open to students who are taking at the same time course 100C.

104B. **College Algebra and Analytic Geometry.** 4 term hours. Winter term. Mr. Everett, Miss Ford.
A continuation of course 104A. Permutations and combinations, the circle, quadratic equations, complex numerals, polynomials.

104C. College Algebra and Analytic Geometry. 4 term hours. Spring term. Mr. Everett, Miss Ford.

A continuation of course 104B. The parabola, ellipse, and hyperbola, higher plane curves. A brief survey of solid geometry.

110. Surveying. 4 term hours. Prerequisite: trigonometry. Spring and Summer terms. Mr. Everett.

A course in field work involving actual problems in surveying and leveling. The final test consists of field notes and a map from a personal survey of an irregular tract.

112. Applied Mathematics. 4 term hours. Winter, Spring, and Summer terms. Mr. Ackley.

An elementary course in the application of the fundamental operations of mathematics to the solution of industrial or simple engineering problems.

115. College Algebra. 4 term hours. Spring and Summer terms. Mr. Ackley, Mr. Blair.

A thorough review of elementary algebra, followed by topics usually studied in a course in college algebra, such as the function concept, determinants, permutations and combinations, theory of equations, and logarithms.

116. Analytic Geometry. 5 term hours. Prerequisite: trigonometry and college algebra. Spring and Summer terms. Mr. Ackley, Mr. Blair.

Analytic geometry of the straight line, circle, and conic sections. This course is designed to follow course 115 and students who have completed courses 100C, 104C, 115, and 116 will be admitted to calculus.

205A. Calculus. 4 term hours. Prerequisites: college algebra and analytic geometry. Fall and Summer terms. Mr. Ackley, Mr. Blair, Mr. Everett.

An elementary course in differential calculus.

205B. Calculus. 4 term hours. Winter and Summer terms. Mr. Ackley, Mr. Blair, Mr. Everett.

A continuation of course 205A.

205C. Calculus. 4 term hours. Spring term. Mr. Ackley, Mr. Blair, Mr. Everett.

A continuation of course 205B. A course in integral calculus.

208. The Teaching of Geometry. 2 term hours. Winter and Summer terms. Mr. Bartoo, Mr. Blair.

The aim of this course is to give the prospective teacher the best educational thought relating to the content and teaching of geometry in the high school. It is recommended that this course either precede or accompany practice teaching in geometry.

209. The Teaching of Algebra. 2 term hours. Fall and Summer terms. Mr. Bartoo, Mr. Blair.
The aim of this course is to give the prospective teacher the best educational thought with reference to the content and teaching of algebra in high school. It is recommended that this course either precede or accompany practice teaching in algebra.

315A. History of Mathematics. 2 term hours. Prerequisite: analytic geometry. Fall and Summer terms. Mr. Blair.

Treats of the history of geometry and trigonometry from earliest times to the present.

315B. History of Mathematics. 2 term hours. Prerequisite: analytic geometry. Winter and Summer terms. Mr. Blair.

A continuation of course 315A, treating of the history of arithmetic and algebra.

321. Differential Equations. 4 term hours. Prerequisite: Integral Calculus 205C. Winter term. Mr. Blair, Mr. Everett.

322. Theory of Equations. 4 term hours. Prerequisite: Integral Calculus 205C. Winter term. Mr. Blair, Mr. Everett.

This course alternates with course 323 and will be offered in 1927-1928.

323. Solid Analytic Geometry. 4 term hours. Prerequisite: Integral Calculus 205C. Winter term. Mr. Everett.

This course alternates with course 322, and will not be offered in 1927-1928.

325. Theoretical Mechanics. 4 term hours. Prerequisite: Calculus 205C. Winter term. Mr. Blair.

The material of this course consists of a study of the composition and resolution of translations by vector methods without, however, making use of the notation of vector analysis. In linear and plane kinematics a critical study is undertaken of the following topics: velocity, acceleration, angular velocity, angular acceleration. In dynamics, mass, density, moments and centroids of particles, lines, areas, and volumes are studied.

327. Theory of Statistics. 4 term hours. Prerequisite: Calculus 205C. Fall term. Mr. Everett.

A study of mathematical principles and formulas underlying investments, accounting, and educational statistics. The course will include the analysis and solution of typical problems.

MODERN LANGUAGES

French

101 A, B, C. Elementary French. 12 term hours. Mrs. Hockenberry, Miss Tamin.

The rudiments of grammar, drill in pronunciation, reading of 100-150 pages of a selected text, writing French from dictation and memorizing of French songs and poems. The course aims, from the outset, to give training in understanding spoken French and in answering questions.

Note.—Credit will not be granted for a part of the course. Not offered to beginners after Fall term.

102 A, B, C. Intermediate French. 12 term hours. Prerequisite: two years of high school French or one year of college French. Mrs. Hockenberry, Miss Tamin.
Composition based on text and on assigned topics, and further practice in oral French. About 500 pages of texts, including plays and short stories.

103 A, B, C. Conversational French. 6 term hours. Prerequisite: two years of high school French. Miss Tamin.

Strongly advised as a parallel course with 102 A, B, C and 203 A, B, C for those who are majoring in French. Topics for informal conversation assigned at each recitation to develop fluency. Outside reading of magazines and modern novels.

203A. Nineteenth Century French Prose and Drama. 3 term hours. Prerequisite: French 101 A, B, C and 102 A, B, C or the equivalent. Fall term. Mrs. Hockenberry.

Cursory study of the development of Romanticism in France; readings from Chateaubriand, George Sand, Victor Hugo.


The Realistic School. Readings from Balzac, Flaubert, Maupassant.


The nineteenth century theatre. Includes study of plays of de Musset, de Vigny, Augier.

204A. Problems of Teaching French. 4 term hours. Prerequisite: French 203 A, B, C or the equivalent. Fall term. Miss Tamin.

Informal discussion of the daily problems arising in the teaching of French. Students planning to teach French must elect this course as the fall term work of course 204 B, C.

204B. Advanced French. 4 term hours. Prerequisite: French 204A or consent of instructor. Winter term. Miss Tamin.

A study of the seventeenth century conditions and history. Readings from the letters of Mme. de Sevigne and the fables of La Fontaine.

Note.—See course 204A.

204C. Advanced French. 4 term hours. Prerequisite: French 204 A, B or consent of instructor. Spring term. Miss Tamin.

The Classical Drama of the seventeenth century. Plays of Corneille, Racine, and Moliere.

205 A, B, C. France and the French. 1 term hour each term. Mrs. Hockenberry.

Obligatory for those specializing in French, but a course conducted in English and open to those not in the French department. A study of topics, oral and written, pertaining to French life. Discussion on the art, geography, education, and historical monuments of France. Intended as a cultural background for other courses and for general information.

206 A, B, C. The Contemporary Drama. 6 term hours. Miss Tamin.

Intended especially for advanced students who are majoring in French and who wish additional credit. Reading course to acquaint the students with
modern masterpieces. Such authors as Maeterlinck, Hervieu, Brieux, and de Curel will be studied.

German

101 A, B, C. Elementary German. 12 term hours. Miss Zimmerman.

The aim of this course is to give the student a thorough knowledge of the fundamentals of German grammar, some facility in speaking and writing the language, and the power to understand and reproduce simple German reading matter. The work will consist of the systematic study of German grammar, the reading of 100 to 200 pages of narrative prose, the reading and memorizing of selected poems, and the writing of simple, idiomatic German. No credit will be given for a part of the course. One year of high school German may be applied on the course.

102 A, B, C. Intermediate German. 12 term hours. Prerequisite: one year of college German or two years of high school German. Miss Zimmerman.

The work of this course will consist principally of extensive reading of novelistic and dramatic German. The composition work will consist of reproductions of texts read, short compositions on assigned topics, and reports on books assigned for collateral reading. The memorizing of poems will be continued.

103 A, B, C. Scientific German. 12 term hours. Prerequisite: the equivalent of one year of college German. Not offered in 1927-1928. Miss Zimmerman.

The reading material in this course will be adapted to the needs of the students. An attempt will be made to give as wide a vocabulary as possible, to meet the needs of students interested in different sciences and in mathematics. An opportunity will be given to the students to suggest, upon advice of the instructors in science and mathematics, articles to be read bearing upon particular problems.

203 A, B, C. The Literature of the Eighteenth Century. Prerequisite: the equivalent of two years of college German. 12 term hours. Miss Zimmerman.

A study of the literature of the eighteenth century in Germany, covering the classical period and the beginnings of Romanticism. Dramas of Lessing, Goethe, and Schiller, prose works of the period, and selected lyrics and ballads will be read in class and assigned for collateral reading. Credit will be given for less than a year, but it is desirable to take the course as a whole.

Spanish

101 A, B, C. Elementary Spanish. 12 term hours. No credit will be given for less than a year's work. Mr. Greenwall.

The elements of grammar and pronunciation are given particular attention. The use of oral Spanish is encouraged.

102 A, B, C. Intermediate Spanish. 4 term hours each term. Prerequisite: Spanish 101 A, B, C or two years of high school Spanish. Mr. Greenwall.

Composition, conversation, grammar, and the reading of selected works by modern authors.

201 A, B, C. Advanced Spanish. 3 term hours each term. Prerequisite: Spanish 101 A, B, C and 102 A, B, C or the equivalent. Mr. Greenwall.
Emphasis will be placed on advanced composition and the reading of advanced texts. It is also the purpose of this course to give a knowledge and understanding of the Spanish-speaking nations.

**MUSIC**


Students with little or no knowledge of music should take this course before entering courses 104, 105, or 106.

101A. **Fundamentals of Music.** 4 term hours. Fall term. Mrs. Snyder.

Training in singing by syllables in all major and minor keys, sight singing, and original melody writing from different rhythmic patterns in each key.

101B. **Fundamentals of Music.** 4 term hours. Prerequisite: Music 101A. Winter term. Mrs. Tawney.

Sight reading involving part singing is offered and ear training is stressed. Oral and written response is given to hearing of simple melodic and rhythmic forms.


Sight reading, involving part singing and more difficult melodic and rhythmic problems, is presented. Melody writing involving the above problems is given in both major and minor keys.

104. **Early Elementary Music.** 4 term hours. Offered each term. Mrs. Britton, Mrs. Snyder.

This course gives a singing knowledge of syllables in all major and minor keys; study of song material for first three grades; treatment of monotonos; experience in presentation and teaching of rote songs and introduction of notation.

105. **Later Elementary Music.** 4 term hours. Offered each term. Mrs. Britton, Mrs. Snyder.

Material suitable for upper grades, method of introducing part singing, and experience in unison and part singing in all major and minor keys.

106. **Rural School Music.** 4 term hours. Offered each term. Mrs. Snyder.

The course consists of sight reading of unison songs, introduction of part singing, theory, methods of teaching music in the rural school, organization of music work in the school and the community. The importance and value of music in the life of school and community are emphasized. Material for school singing, community singing, appreciation work and recreational play are considered.

116 A, B, C. **Voice Culture.** 2 term hours each term. Offered each term. Mrs. Snyder.

Stresses the fundamental processes of breath control and tone production. Group singing for each student every day, singing of songs in small groups, and later some individual coaching.
123. **Women's Glee Club.** 4 term hours for a year's work. Mrs. Snyder.

The Women's Glee Club of sixteen is chosen from the chorus through competition. The object is to select students for special artistic training in ensemble work. The Glee Club enters the State College Music Contest and sings before a number of high schools throughout the State. They also take an active part in the musical work on the campus and in the city.

125. **Men's Glee Club.** 4 term hours for a year's work. Mr. Maybee.

Open to all men with musical ability who have had experience in singing. The club enters the State Music Contest and makes a concert tour during the spring vacation in addition to filling numerous other engagements and taking an active part in the music life on the campus.

127. **Orchestra.** 4 term hours for a year's work. Rehearsals twice a week. Mr. Amos.

Open to all students with a reasonable amount of training upon wind and string instruments. Special training is given in small groups outside of regular rehearsals.

130. **Band.** Physical education credit. Rehearsals twice a week throughout the year. Mr. Amos.

This organization of from fifty to sixty members affords the student who plays some instrument opportunity for directed development. The school owns many of the instruments, which it places at the disposal of the students. Since the Band appears at assemblies and games, it is also supplied with uniforms.

206A. **Music Education.** (For specializing music students.) 4 term hours. Prerequisite: Music 101 A, B, C. Fall term. Mrs. Tawney.

This course presents methods of teaching music in the primary grades. The work includes: the selection and singing of rote songs; a study of the child voice; the treatment of monotones; introduction of sight singing, and plans for class procedure.


This course deals with presentation of music in the intermediate grades. It involves these topics: development of independent sight singing, both syllables and words; two and three part singing; introduction of tonal and rhythmic problems found in music designed for intermediate grades. Courses in music appreciation, organization of grade school orchestras, and instrumental class work are discussed and suitable material for the work is considered.

206C. **Music Education.** 4 term hours. Prerequisite: Music 101A, B, C and 206 A, B. Spring term. Mr. Maybee.

This course presents methods of organizing classes and presenting school music in both junior and senior high school. It involves: study of the changing voices, voice testing, chorus management, methods for organizing and conducting class work, glee clubs, choruses, and orchestras with a study of suitable material. The problems of credit for outside music study and competitive contests are considered. Some training is given students in presenting operettas, cantatas and chorus numbers.

209 A, B, C. **Harmony.** 4 term hours each term. Prerequisite: Music 101 A, B, C. Fall, Winter, and Spring terms. Mr. Henderson.
This course presents sufficient material to enable a student to gain an intelligent knowledge of modern harmonic treatment. Part writing from given basses and melodies, chord and melodic progressions. Students must be able to play sufficiently to render hymn tunes.

212A. Ancient and Medieval Music. 4 term hours. Prerequisite: Music 101 A, B, C. Fall term. Mr. Maybee.

The evolution of music from the primitive phase to the time of Bach.

212B. Modern Composers. 4 term hours. Prerequisite: Music 101 A, B, C, and 212A, or the consent of the instructor. Mr. Maybee.

Music from the time of Bach to the present day composers. The development of the orchestra, opera, oratorio, and various other musical forms is worked out with the aid of the piano, voice, and victrola, bringing within the hearing of the students various interpretations of the master works.

212C. Musical Appreciation. 4 term hours. Prerequisite: Music 101 A, B, C and 212 A, B. Mr. Maybee.

A study of the masterpieces is made and appreciation work in preparation for teaching children is definitely worked out.

216 A, B, C. Voice Culture. 2 term hours each term. Prerequisite: Music 116 A, B, C. Offered each term. Mr. Maybee.

The work in this course is designed to further the development of the first year's work. The class is divided into sections with the idea of having voices of similar character and quality work together for more intensive and individual study. Suggestions are made to individuals before the class so that all may have the advantage of the work. Songs are taught to the groups and eventually sung by the individual.

223. Women's Choir. 4 term hours for the year's work. Mr. Henderson, Mr. Maybee.

The Women's Chorus consists of all of the women students in the Music and Music and Art curricula and other students who have had previous musical training. The chorus appears before the student body in assembly a number of times during the year. Rehearsals are held Tuesday evenings, at 7 o'clock, in the Rotunda of the Training School.


This course is designed to train students in the physical education department who have a limited musical experience. Special stress is placed upon singing and melody writing, emphasizing the rhythmic forms.

320 A, B, C. Musical Composition and Analysis. 12 term hours. Prerequisite: Music 101 A, B, C and 209 A, B, C. Mr. Henderson.

Advanced harmony and the analysis of the various musical forms; working out the original vocal and instrumental selections.

331 A, B, C. Orchestration. 12 term hours. Mr. Amos.

The orchestration of hymns, songs, and larger works. Opportunity will be provided for students to learn to tune and to study the fundamental principles of playing the various instruments of the orchestra.

130. Sound. (See description of course in Department of Physics, p. 120.)
Examinations

All music students will be examined in either piano, voice, or violin twice a year. At the end of the third year, the work of Division IV will be required.

Piano

Students majoring in piano need pass only Divisions I and II in voice.

Division I.
Playing knowledge of all major and minor scales in slow tempo, each hand alone. Easy sonatinas by Lichner, Gurlitt. Easy sonatinas by Schumann, Bach-Paelten, etc. Sight reading.

Division II.
Major and minor scales—each kind alone, one, two, and three notes to a beat. M.M. 80.
Etudes.
Sonatines—Loeschorn, Clementi.
Easy pieces—Bach, Handel, Mozart, Grieg, etc.
Sight reading.

Division III.
Major and minor scales, hands together—one, two, and three notes to a beat. M.M. 90.
Major and minor arpeggio, hands alone, slowly.
Durorony Op. 120. Heller Op. 47, etc.
Sonatines by Clementi, Schytte.
Pieces, Jensen, Mendelssohn, Bach.
Sight reading.

Division IV.
Major and minor scale, hands together—two, three, and four notes to a beat, M.M. 100.
Easiest sonatas, Haydn, Mozart, Beethoven.
Pieces, Jensen, Mendelssohn, Schumann, Bach.
Sight reading.

Voice

Students majoring in voice need pass only Divisions I and II in piano.

Division I.
The intelligent singing of the songs of the type of "Drink To Me Only With Thine Eyes," "Annie Laurie," "Home Road" (Carpenter), etc.

Division II.
"Caro Mio ben"—Giordani
"In the Time of Roses"—Reichardt.
"Voice in the Wilderness"—Scott.

Division III.
Songs of Schubert, Schumann, Brahms, and Beethoven.

Division IV.
Selections from standard operas and oratorios.
Students should show a musical and interpretative development at all times. It is to be expected that students will vary in their work, but at the same time a consistent growth should be shown in musicianship and vocal ability.

Violin

Students specializing in the violin will be required to pass tests similar in character to those outlined for the piano.
PHYSICAL EDUCATION FOR MEN

PENMANSHIP

Penmanship. Non-credit course. Offered each term. Miss Shimmel.

A credit in penmanship is required of all candidates for normal school certificates in this State. The course aims to help the student to become a good penman, and to give him a knowledge of method and technique in penmanship. All work is explained and practiced in class. The amount of outside work required depends entirely upon the ability of the student and the degree of perfection he has previously attained.

PHYSICAL EDUCATION FOR MEN

Medical examination is required of each student upon entering and only upon agreement with the school physician may he be termed physically able to take the work. Special work will be prescribed for men who are physically unable to take part in active games and exercise. Basketball or track suit and gymnasium shoes are required of all men.

Physical Education 106, a lecture course meeting one hour per week for one term, is required of all students not specializing in physical education. It is recommended that students take the lecture course during the first year.

Students who wish to minor in Physical Education should elect the following courses:

121A. General Athletics .................................. 1 term hour
121B. Elementary Gymnastics .............................. 3 term hours
121C. Outdoor Games .................................... 2 term hours
128. Fundamental Football ................................ 1 term hour
118. Baseball Technique ................................ 2 term hours
213. Football Technique ................................ 2 term hours
215. Basketball Technique ................................ 2 term hours
219. Track Technique .................................... 2 term hours

101A. Physical Education. Fall term.

Outdoor games, intramural athletics, varsity football.

101B. Physical Education. Winter term.

Gymnastic work, indoor games, athletics, varsity competition, intramural games.

101C. Physical Education. Spring term.

Outdoor games, baseball, track, intramural competition.

106. Physical Education. Offered each term. Lectures by faculty from biology, health service, and physical education departments.

This course aims, through a series of lectures, to give each student a broad conception of hygiene as applied to himself. A notebook is required.

201A. Physical Education. Fall term.

201B. Physical Education. Winter term.

201C. Physical Education. Spring term.

Courses for Specializing Students

107. History of Physical Education. 3 term hours. Mr. Read.

Early Greek and Roman physical training; period of development during the Renaissance; German and Swedish systems, present-day systems including the new conditions brought about by the war.
108. **Gymnastic Theory.** 2 term hours. Winter term. Mr. Taylor.

General principles, control and class management, methods and technique, formations, gymnastic commands.

118. **Baseball Technique.** 2 term hours. Spring term. Mr. Hyames.

Fundamentals of batting, bunting, baserunning, position play, offensive and defensive team work, study of the rules and coaching methods.

121A. **General Athletics and Games.** 1 term hour. Fall term. Mr. Read.

School athletics and games; practice and theory.

121B. **Elementary School Gymnastics.** 3 term hours. Winter term. Mr. Read.

Group games, organized mass athletics, elementary apparatus work. Playground and gymnastic equipment.

121C. **Outdoor Games.** 2 term hours. Spring term. Mr. Read.

Mass athletics, track, and baseball.

128. **Fundamental Football.** 1 term hour. Fall term. Mr. Hyames, Mr. Martineau.

Fundamentals; position of each player on offense and defense, all forms of kicking, tackling, and blocking; principles of interference and carrying the ball; execution of the forward pass. A practical system of offense and defense will be taught with consideration to the conditioning and handling of a team. Lectures.

213. **Football Technique.** 2 term hours. Prerequisite: Fundamental Football 128. Fall term. Mr. Martineau, Mr. Read.

Different styles of offensive and defensive play, football strategy.

215. **Basketball Technique.** 2 term hours. Winter term. Mr. Read.

Fundamentals; handling of the ball; passing, goal throwing, pivots, and stops; dribbling, team play, and actual competition. Theory of coaching and study of different offensive and defensive systems taught throughout the country. A complete practical system in itself will also be taught. Lectures and floor work.

219. **Track Technique.** 2 term hours. Spring term. Mr. Taylor.

Practical instruction in starting, sprinting, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, discus and javelin throw. Preparation of contestants for standard events; rules of competition; intensive study of physical condition, including endurance, speed and fatigue, with view to promotion, management, and officiating of games and meets. Lectures and athletic field work.

221A. **Physical Education.** 2 term hours. Fall term. Mr. Taylor.

Football, soccer football, and group games.

221B. **Physical Education.** 2 term hours. Winter term. Mr. Taylor.

Advanced gymnastics and apparatus work, graded athletic tests for mass athletics. Team contests.
221C. Physical Education. 2 term hours. Spring term. Mr. Taylor.
Advanced athletics in track and baseball.

227. Swimming. 1 term hour. Spring term. Mr. Read.
Instruction in the different strokes, life saving, and resuscitation.

310. Anthropometry and Physical Diagnosis. 4 term hours. Prerequisite: Anatomy 211 A, B. Winter term. Mr. Taylor.
Theory and practice of physical measurements and thorough physical diagnosis. It includes the study of appearance, conditions, defects, and deformities likely to be met in the examining room.

312. First Aid and Massage. 4 term hours. Prerequisite: Anatomy 211 A, B. Fall term. Mr. Taylor.
Knowledge and skill in meeting emergencies. Use of massage in treatment of sprains, bruises, and paralysis. Use of hot and cold applications.

317. Physical Education Administration. 4 term hours. Spring term. Mr. Taylor.
Needs, fundamental principles, and purposes governing the big movement in physical education. General principles of public school training. Methods and principles underlying school recreation in general.

321A. Physical Education. 2 term hours. Fall term. Mr. Read.
Special organization work. Supervision and teaching.

321B. Physical Education. 2 term hours. Winter term. Mr. Read.
Advanced apparatus work.

321C. Physical Education. 2 term hours. Spring term. Mr. Read.
Special practice for the administration of baseball and track.

332. Scoutcraft. 4 term hours. Spring term. Mr. Read.
Principles of scout work organization, equipment, rope tying, patrols, signaling, and hiking. Hikes and at least two week-end camping trips will be taken. The object of this course is to make every graduate of the department a potential scout master.

The mechanics of bodily movements, medical gymnastics; corrections for deformities.

416. Physiology of Exercise. 2 term hours. Fall term. Mr. Taylor.
Physiology applied to problems of exercise. Study of the circulation with respect to different types of exercise.

421A. Physical Education. 2 term hours. Fall term. Mr. Taylor.
Practice work with corrective and special cases.

421B. Physical Education. 2 term hours. Spring term. Mr. Taylor.
Health programs to meet all kinds of physical education problems.
436. **Community Recreation.** 2 term hours. Spring term. Mr. Hyames.

A general survey of the field of community recreation, including the history and progress of the recreational movement. Discussion of different types of programs and the adoption of the same. Organization plans and selection of leaders.

**PHYSICAL EDUCATION FOR WOMEN**

Medical examination is required of each woman student upon entering, and only upon agreement with the school physician may she be termed physically unable to take the work. She is assigned to the type of activity which best suits her needs. Students temporarily excused from the course must arrange for credit with the chairman of the department.

Prompt enrollment and regular attendance are necessary to secure credit. A regulation gymnasium suit is required. Physical Education 106, a lecture course meeting one hour a week, may be taken in the same term with another course in this department, preferably in the freshman year. With this one exception, students are not permitted to take more than one course in physical education during a term.

Physical Education 106 and Physical Education 202 are required of all students graduating from two, three, and four year curricula. The remaining four terms may be elected by the student. 126 A, B, C and 226 A, B, C described under courses for specializing students may be elected by students of other departments.

The following sequence of courses is recommended for students desiring a minor in physical education:

- Playground Organization 119.. ........................................... 3 term hours
- Theory of Athletics 222........................................... 2 term hours
- Theory of Games 223............................................... 3 term hours
- Community Recreation 322........................................... 4 term hours

**101A. Physical Education.** Fall term. Miss Bottje, Miss Hussey, Miss Mullen, Miss Wornor.

Students may elect tennis, hockey, soccer, or games, to be followed in late fall by work in the gymnasium.

**101B. Physical Education.** Winter term. Miss Bottje, Miss Hussey, Miss Mullen, Miss Spalding.

Marching, gymnastics, games, and folk dancing constitute the course.

**101C. Physical Education.** Spring term. Miss Bottje, Miss Hussey, Miss Wornor.

Indoor work in early spring followed by track and field athletics, volley ball, and baseball will be given.

**104. Physical Education.** Offered each term. Miss Bottje, Miss Hussey.

A course of remedial exercise for students who do not pass the physical examination.

**105. Swimming.** Offered each term. Miss Bottje, Miss Hussey, Miss Mullen, Miss Wornor.

Instruction is given in swimming, diving, and life saving.

**106. Physical Education.** Offered each term. Lectures by faculty from biology, home economics, health service, and physical education departments.
This course aims, through a series of lectures, to give each student a broad conception of hygiene as applied to himself. A notebook is required.

**201. Physical Education.** Fall term. Prerequisite: two terms of freshman physical education. Miss Bottje, Miss Hussey, Miss Mullen, Miss Spalding.

Elective outdoor sports in season are offered.

**202. Physical Education.** Winter and Spring terms. Miss Mullen, Miss Spalding.

This course is required of all students and should be taken for the final term's work in physical education. Two periods of practice and one of theory. A study is made of the need of physical education. Classification is made of exercise, games, and folk dancing for the different grades.

**Courses for Specializing Students**

Young women pursuing this work must be in good physical condition throughout the course. Unless they show a reasonable aptitude for this type of work, they will be asked to withdraw from the course.

All practice courses, including dancing, gymnastics, sports, and swimming are required. These courses do not receive credit in term hours.

**110 A, B, C. Folk Dancing.** Begins Fall term and continues throughout the year. Miss Worner.

This course includes practice in folk dances of the various nations, clogs, jigs, reels, country and character dancing. Only with the consent of the department may a student enter the second term of this course.

**111. Swedish Practice.** Fall term. Miss Hussey.

Study of the Swedish system of physical education, including marching, gymnastics, and apparatus.


This course is a study of the Swedish system of physical education, and the progression, selection, and arrangement of exercises in the Swedish Day's Order.

**113. General Gymnastics.** Spring term. Miss ———

This course includes simple practice work in tactics, calisthenics, and competitive games.

**119. Playground Organization.** 3 term hours. Spring term. Miss Crane.

The theory of the growth and advancement of playgrounds, with attention given to the organization of playgrounds, is taken up. Laying out of grounds and the choice and arrangement of apparatus are given due consideration. Play activities from the simplest form to the more highly organized competitive games are carried on in the gymnasium.

**125 A, B, C. Swimming.** Miss Hussey, Miss Worner.

Instruction is given in all strokes, diving, and life saving. Red Cross Life Saving Test may be taken with consent of the instructor.
126 A, B, C. Games. Miss Bottje, Miss Hussey, Miss Spalding.
Practice will be given in season in hockey, soccer, basketball, tennis, and baseball.
Note.—Open also to non-specializing students.

210 A, B, C. Dancing. Begins Fall term. Miss Mullen.
A year's work consisting of dancing based upon full and natural movements. It offers opportunity for music interpretation and pantomimic dancing and is adapted to festival work.

213 A, B, C. General Gymnastics. Prerequisite: General Gymnastics 113. Begins Fall term. Miss ———
Advanced practice in tactics, calisthenics, and graded apparatus work is taken up throughout the year. Careful organization of material in notebooks is required.

217. Methods. 4 term hours. Fall term. Miss ———
Survey of various systems of physical education; adaption to the present day needs. A study is made of the method and technique of teaching general gymnastics, the progressive value of exercises, and the use of apparatus with its progression.

218. Rhythmic Plays and Singing Games. 2 term hours. Winter term. Miss Crane.
Rhythmic material suitable for children in the early elementary grades.

220. Applied Anatomy. 4 term hours. Prerequisite: Anatomy 211 A, B. Miss Hussey.
The mechanics of bodily movements is carefully analyzed. The larger group muscles are studied as to their location and action in developmental activities and exercises.

222. Theory of Athletics. 2 term hours. Prerequisite: General Gymnastics 113. Spring term. Miss ———
The technique of athletics for both outdoor and indoor work will be carefully studied in this course. Administration of meets and tournaments, and rules governing track and field competition will be considered in detail.

223. Theory of Games. 3 term hours. Offered each term. Miss Worner.
A study of games suitable for children of various grades with progression toward major sports is made. Special attention will be given to rules and playing technique of soccer, hockey, volley ball, basketball and baseball.

This course includes the methods of teaching swimming, analysis of different strokes, dives, Red Cross Life Saving Test, and the administration of swimming meets.

225 A, B, C. Swimming. Miss Hussey, Miss Worner.
Instruction is given in all strokes, diving, and life saving. Red Cross Life Saving Test may be taken with consent of the instructor.
226 A, B, C. Games. Miss Bottje, Miss Mullen, Miss Spalding, Miss Worner.

Practice will be given in season in hockey, soccer, basketball, tennis, and baseball.

Note—Open also to non-specializing students.

310 A, B. Dancing. Prerequisite: 210 A, B, C. Begins Fall term. Miss Mullen.

The work of the first two terms consists of advanced natural dances, original rhythms, and the writing of a dance festival.


This course aims to give the student a large amount of graded material, together with methods for presenting it and practice in teaching it to the group.

313 A, B, C. General Gymnastics. Prerequisite: General Gymnastics 113, 213 A, B, C. Begins Fall term. Miss ———

This course aims to cover the latest practice theories of various motor ability tests and types of administration. Also practice will be given in stunts, pyramids, and simple tumbling.

321. History and Administration of Physical Education. 4 term hours. Fall term. Miss Worner.

A course in the development of physical education and the study of its modern administration and organization.


A study of suitable material used in community centers, organizations, and in activities for children after school. Second year students in courses other than physical education may elect this course by obtaining permission from the instructor.


The study of prescribed exercise for remedial effects in cases of curvature and physical abnormalities. Massage and practice with patients will be given.

324. Advanced Technique in Coaching, Athletics, and Sports. 4 term hours. Prerequisite: Theory of Athletics 222, Theory of Games 223. Spring term. Miss ———

This course is a continuation of courses 222 and 223 with the coaching of these activities given full consideration.

325 A, B, C. Swimming. Miss Hussey, Miss Worner.

A continuation of 225 for students who have not passed the Red Cross Life Saving Test.

326 A, B, C. Games and Sports. Miss Hussey, Miss Mullen, Miss Worner.

Practice in playing and refereeing organized games.
Additional Courses Given in Other Departments

In Department of Biology
103 A, B. General Biology, page 64.
112. Hygiene, page 66.
211 A, B. Anatomy, page 66.
211C. Physiology, page 66.

In Department of Home Economics

In Department of Music

PHYSICS

Students preparing to teach physics in the high school must have, as minimum preparation in physics, courses 201 A, B, C. Through arrangement with the department of chemistry, a major may be made by taking one year of chemistry and one year of physics. It is best to defer the work in physics until the second year, or until the student has had one year of college mathematics.

In courses where laboratory work is required, it is necessary for the student to arrange his work so that he may have two consecutive hours one day each week for laboratory work.

It is desirable that students begin their college physics with Mechanics and Sound 201A.

100 A, B, C. Elementary Physics. 4 term hours each term. Begins in the Fall term and continues through the year. Mr. Rood.

Designed for students who enter without credit in high school physics. May be used by manual arts students to satisfy one year of their requirement in physics.

Classroom, 5 hours a week.

130. Sound. 2 term hours. Prerequisite: high school physics and trigonometry. Winter term. Mr. Fox.

Planned primarily for music students, but may be elected by students in other curricula. A demonstration-lecture course consisting of a study of vibrating bodies, such as strings, air columns, and reeds; graphic representation of simple tones; synthesis and analysis of complex tones as an introduction to mathematical relations expressed by Fourier's series.

160. Electricity. 4 term hours. Prerequisite: high school physics. Winter and Spring terms. Mr. Fox.

Required of all manual arts students except those electing courses 201 A, B, C. Others may elect this course. Consideration is given to such problems as the measurement of resistance of wires and their gauge numbers; the use of ammeters, voltmeters, and wattmeters; the plan of construction and use of various types of motors and generators for direct and alternating current; types and uses of various forms of electromagnets.

201A. Mechanics and Sound. 4 term hours. Prerequisite: high school physics and trigonometry. Fall term. Mr. Fox.

A general course in the mechanics of solids and fluids. The last part of the course will be devoted to a study of sound. Demonstration lectures and recitations with illustrative problems.
PHYSICS 121

Classroom, 4 hours a week; laboratory, 2 consecutive hours a week.

Note.—Courses 201 A, B, C constitute a year's work in college physics and should be elected by all students who desire a complete unit of credit in this subject, either as a foundation for teaching high school physics, or in preparation for more advanced courses in physics and engineering.

201B. Magnetism and Electricity. 4 term hours. Prerequisite: Physics 201A. Winter term. Mr. Fox.

Same general plan of presentation as in Physics 201A.
Classroom, 4 hours a week; laboratory, 2 consecutive hours a week.

201C. Heat and Light. 4 term hours. Prerequisite: Physics 201A. Spring term. Mr. Fox.

Same general plan of presentation as in Physics 201A.
Classroom, 4 hours a week; laboratory, 2 consecutive hours a week.

Note.—See note under course 201A.

202 A, B, C. Physics Problems. 1 term hour each term. Prerequisite: high school physics and trigonometry. Begins in the Fall term and continues through the year. Mr. Fox.

A problem course designed to accompany courses 201 A, B, C. Students wishing the required ten hours of physics for engineering must elect these courses.

210. Astronomy. 4 term hours. High school physics a highly desirable antecedent. Fall term. Mr. Fox.

A non-mathematical course in descriptive astronomy which will serve as an aid to students in general science and to others who wish to get an understanding of the elements of the subject. Open as an elective to students of all courses.

265. Alternating Currents. 4 term hours. Prerequisite: high school physics. Spring term. Mr. Marburger.

Designed especially for high school teachers of physics. Its aim is to make clear the distinction between alternating and direct currents and to give the student some experience in handling each. The course is concerned with such problems as the plan of construction and the use of the transformer; measure of impedance and power factor; voltage and current relations in series and parallel circuits; polyphase circuits; converters and rectifiers.

350 A, B, C. Light. 2 term hours each term. Prerequisite: Physics 201C and, preferably, Calculus 205 A, B, C. Begins in the Fall term and continues through the year. Mr. Fox.

An advanced course in light, consisting of lectures and laboratory work. Studies in reflection, refraction, interference, diffraction, and polarization.

360 A, B, C. Electrical Measurements. 4 term hours each term. Prerequisite: Physics 201 A, B, C, and, preferably, Calculus 205 A, B, C. Begins in the Fall term and continues through the year. Mr. Rood.

A study is made of condensers, galvanometers, different types of Wheatstone bridges, coulometers, wattmeters, standard inductances, and vacuum tubes. A separate laboratory is reserved for use in this course. It is well equipped with precision standards for measurement.
Classroom, 3 hours a week; laboratory, an entire afternoon each week.
366 A, B, C. Principles of Radio Communication. 2 term hours each term. Prerequisite: Physics 201 A, B, C, and, preferably, Calculus 205 A, B, C. Begins in the Fall term and continues through the year. Mr. Marburger.

A study of the properties of the oscillatory circuit; capacitance, inductance, and resistance in circuits at high frequencies; damped and undamped oscillations; coupled circuits; characteristics of vacuum tubes and their use as rectifiers, amplifiers, and generators. Typical circuits for the transmission and reception of radio signals will be studied. Attention will be given to the theories of the mechanism of transmission through space, the phenomena of atmospherics and fading signals, and to similar problems. An effective code transmitting station is maintained by which students may acquire experience in the actual operation of transmitting and receiving apparatus for intercommunication.

Classroom, 2 hours a week; laboratory, 1 double period a week.

325. Theoretical Mechanics. (See description of course in Department of Mathematics, page 106.)

RELIGIOUS EDUCATION


A brief historical survey of the problem of teaching moral and religious truths will be made; objectives, curricular content, and methods of presentation, the modern church school, the daily vacation Bible school, and the week-day school of religion will be discussed. Brief study will be made of character education in public schools.

RURAL EDUCATION

Additional information relating to the work of the Department of Rural Education may be found on the following pages:
- Opportunities in the field of rural education, page 22.
- Facilities for training for work in rural education available at Western State Normal School, pages 25, 77, 122-123.
- Certificates granted and degrees conferred, pages 37-38.
- Curricula offered, pages 52-55.

101. Curriculum. 4 term hours. Offered each term. Miss Evans.

A discussion of modern methods in curriculum making, with special attention to the elementary school subjects; a survey of the development of these subjects, together with the objectives to be sought in each and the standardized tests used with each; a detailed study of the Michigan State Course of Study; and a brief comparative study of the Michigan State Course of Study and the courses of other states and cities.

101R. Principles of Teaching. 4 term hours. Prerequisite: Psychology 101. Offered each term. Miss Evans.

A study of the general principles of teaching, with particular application to rural school situations. Textbook discussions, supplementary reading, and observations in the training school are required. Prerequisite to practice teaching.

201A. Rural Education. 4 term hours. Fall and Summer terms. Dr. Burnham.
Deals with the general questions of teaching, supervision, and administering rural schools. Executive facility and efficiency in the whole work of the school are the major considerations.

201B. Rural Education. 4 term hours. Prerequisite: Rural Education 201A. Winter term. Dr. Burnham.

Attempts to increase specific understanding in rural economics. The work of the term concludes with a study of the possibilities of elementary and secondary rural school instruction in vocational subjects.

201C. Rural Education. 4 term hours. Prerequisite: Rural Education 201 A, B. Spring term. Dr. Burnham.

Studies current constructive and reconstructive social activities. Home, neighborhood, community, and occupational and professional units of organization are discussed with reference to the relations of provincial and class distinctions to the inclusive social unity. Illustrations are taken and applications are made to small town, village, and country life.

304. Rural Education. 2 term hours each term. Dr. Burnham.

This is a seminar course for advanced students who are interested in keeping abreast of current progress in rural education. The best material in print on rural life and education will be read and discussed. Definite listing of the problems relating specifically to administration; teaching, including curriculum; and supervision of all types of rural schools, including the preliminary and service preparation of teachers, will be required. Research by individual members of the class may be on minor problems reported each term or on a major problem at the end of the year. Laboratory work in rural schools in proximity to Kalamazoo is required.

404. Rural Education. 1 term hour each term. Dr. Burnham.

This course is open only to seniors who have had Rural Education 304 here or its equivalent elsewhere. Students who elect this course will take part one day each week with Rural Education 304 in seminar work, where their individually directed reading and study in rural education will be presented for discussion and criticism.

101, 201, 202. Teaching. (See description of courses in Training Department, pages 126.)

103. Sociology. (See description of course in Department of History and Social Science, page 95.)

330. School Supervision. (See description of course in Department of Education and Psychology, page 80.)

This course should be taken in conjunction with Rural Education 304 and 404 by students who desire to do supervising in counties and teaching in county normal schools.

SPEECH

A major sequence in Speech consists of courses 101 A, B, 110, either 120 or 225, 301, and one other course.

A minor sequence consists of courses 101 A, B, and one of the following courses: 110, 120, 225.

For students specializing in English, courses 101 A, B, 110, 210, 310, and 320 are recommended.

Students majoring in Speech are strongly urged to minor in English.

Training will be given students who desire remedial work in speech. More individual assistance will be given in the overcoming of such defects as lisping, stammering, and throatiness, than is possible in Fundamentals of Speech 101. Clinical cases handled in connection with the Department of Health Education. Hours to be arranged with the instructor.

101A. Fundamentals of Speech. 4 term hours. Offered each term. Mr. Lahman, Miss Lindblom, Miss Shaw, Miss Vandenbark.

The basic course for all work in the department. A study and application of the fundamental principles underlying the use of the voice and body for effective communication. Credit will be given for this course alone, but it is strongly urged that A and B be taken as a unit.

101B. Fundamentals of Speech. 4 term hours. Prerequisite: Speech 101A. Winter and Spring terms. Mr. Lahman, Miss Lindblom, Miss Shaw, Miss Vandenbark.

Further study of principles, with additional opportunity for individual practice. Students interested in Speech are advised to elect both A and B the first year.

110. Interpretive Reading. 4 term hours. Prerequisite: Speech 101 A, B. Offered each term. Mr. Lahman, Miss Shaw, Miss Vandenbark.

Analysis and oral interpretation of the more simple types of prose and poetry.

111. Story Telling. 4 term hours. Prerequisite: Speech 101A. Winter and Spring terms. Miss Shaw, Miss Vandenbark.

Emphasis placed upon the art of telling the story. Each member of the class will have practice in telling and criticising stories of all types.

120. Informal Public Speaking. 4 term hours. Prerequisite: Speech 101 A, B. Winter and Spring terms. Mr. Lahman, Miss Lindblom.

Introductory study of the rhetorical principles of public speech and audience psychology. The primary aim is to develop clear thinking, and ease and effectiveness in speaking. Frequent opportunity for platform work.

201. Parliamentary Usage. 2 term hours. Fall and Spring terms. Mr. Lahman, Miss Shaw.

Designed for upperclassmen who desire some knowledge of how to organize meetings and conduct business according to parliamentary procedure. Study of such matters as motions and their order of precedence, committees and their duties, election of officers, etc. Constant application in the classroom of the principles studied.

210. Advanced Interpretive Reading. 4 term hours. Prerequisite: Speech 101 A, B, 110. Winter and Spring terms. Miss Shaw.

Advanced work in the oral interpretation of literature, with special emphasis on character delineation.

215. Play Production. 4 term hours. Prerequisite: Speech 101 A, B, 110, and 210, or the consent of the instructor. Spring term. Miss Shaw.

Methods of staging plays, including stage settings, costume, and make-up. Plays will be presented by the class. Each student will direct at least one play.
220. Advanced Public Speaking. 4 term hours. Prerequisite: Speech 101 A, B, and 120 or the consent of the instructor. Winter and Spring terms. Mr. Lahman, Miss Lindblom.

Advanced study of speech organization and audience psychology, and frequent practice in meeting various situations confronting the public speaker.

221. Practical Public Speaking. 2 term hours. Fall and Spring terms. Mr. Lahman.

Designed for upperclassmen who have been unable to take Fundamentals 101 A, B, but who desire some practical training in the preparation and delivery of such talks as the average school instructor, executive, or coach is frequently called upon to give.

225. Argumentation and Debate. 4 term hours. Prerequisite: Speech 101 A, B, or the consent of the instructor. Fall and Spring terms. Mr. Lahman, Miss Lindblom, Miss Shaw.

A thorough study of the principles of argumentation and frequent practice in debating current public questions. Attention is also given to the problems of coaching and judging debates. Students planning to participate in intercollegiate debate are advised, so far as possible, to take this course first.

226. Advanced Argumentation and Debate. 2, 3, or 4 term hours. Winter term. Mr. Lahman, Miss Lindblom.

Application of argumentative principles to actual platform debate. The basis of this forensic practice is the intensive study of the questions used for intercollegiate debate.
A. Limited to those who are members of the debating squad for the first year.
B. Limited to those who are members of the debating squad for the second year.

301. Theory of Speech. 4 term hours. Prerequisite: Psychology 101 and either junior standing or a major in Speech. Spring term of alternate years. Offered in 1927-1928. Miss Lindblom.

The development of speech as a form of human behavior studied from the biological and psychological standpoint.

305. Festival and Pageantry. 4 term hours. Prerequisite: Speech 101 A, B. 2 times a week during Winter and Spring terms of alternate years. Offered in 1927-1928. Miss Shaw.

A study of the field of festivals and pageants and of the methods of their organization and presentation. The class will develop and present a pageant.


Platform reading of the one-act and the three-act play. Through class analysis and criticism, a basis for judging the drama is established.

320. Speech Composition. 4 term hours. Prerequisite: Speech 101 A, B, 120, and 220 or the consent of the instructor. Spring term. Mr. Lahman.

Analysis of model speeches and frequent practice in constructing speeches for special occasions, such as after-dinner, introduction, welcome, and anniversary.
326. Seminar in Argumentation and Rhetoric. 2, 3, or 4 term hours. 
Prerequisite: Speech 226 A, B, and the consent of the instructor. 
Winter term. Mr. Lahnman, Miss Lindblom.

The theory and practice of debate. Especial attention is paid to the rhetor- 
cical principles involved in argumentative discourse. 
A. Limited to juniors. 
B. Limited to seniors.

THE TRAINING DEPARTMENT

Practice Teaching

Students enroll for Teaching in the Training School office at the time regularly 
scheduled for enrollment. At this time students are assigned to a definite 
school and Supervisor. They report to Supervisors for further instructions 
at hours later posted on the bulletin board outside the Training School office. 
The bulletin board should be watched for important announcements.

Teaching 201 and 202 are required in all the Life Certificate curricula. As 
far as possible, students are urged to take both units of teaching in the same 
term. At least two consecutive hours of the school day should be reserved 
for this work.

Students enrolled in a three or four year curriculum should defer one unit 
of teaching until the third or fourth year.

In case 201 and 202 are taken in different terms, meetings with the Director 
are required only the first term.

Students are strongly advised not to undertake extra studies or work during 
the term or terms in which practice teaching is being done. Each unit of 
Teaching, 101, 201, 202, 203, and 205, counts the same as one academic subject 
and is entitled to four term hours credit, hence to a corresponding amount of 
time and effort in preparation.

Students preparing to do administrative work are advised to do at least one 
unit of work in the lower grades of the Training School.

Courses of Instruction

101. Teaching. 4 term hours. Prerequisite: Psychology 101, Principles of 
Teaching 101 R. Fall, Winter, and Spring terms. Mr. Ellsworth 
and Supervisors.

For students enrolled in the Limited Certificate and Required Professional 
Training curricula only.

201, 202. Teaching. 4 term hours. Prerequisite: Psychology 101, 102, Prin- 
ciples of Teaching 101. Fall, Winter, and Spring terms. Mr. Ells-
worth and Supervisors.

These courses include (1) the teaching of classes in one of the Training Schools 
(See pp. 24-25); (2) the observation of lessons taught by Supervisors; (3) the 
study and measurement of children as individuals and in groups; and (4) 
meetings with the Director of the Training Schools, and the Supervisors of 
practice teaching.

Students are expected to become familiar with the courses of study and the 
general workings of the Training School, and to enter into the life and activities 
of the school and the children. Opportunity is afforded for participation in 
assemblies, social affairs, and parents' meetings.

Class meetings with the Supervisors are held Tuesdays and Thursdays at 
8 o'clock in the grade rooms, and with the Director at 8 o'clock Saturdays. 
These hours must therefore be reserved by all students enrolling in these courses.

Offered in summer term to holders of limited certificates who are completing 
work for a life certificate. Not open in summer to students on the campus 
the other terms.

The privilege of an elective term in Teaching is granted only with the permission of the Director of the Training School, and the student's adviser. Students attend meetings as directed by the Supervisor.

205. Teaching. 4 term hours. Prerequisite: maturity and experience. Summer session only. Mr. Ellsworth and Grade Supervisors.

A course in observation and discussion designed to keep teachers of experience in touch with the best present day practice. Demonstration rooms are conducted, one each, in primary, intermediate and upper grades. The aim is to present progressive methods of education under modern conditions. Class meetings are held for discussion of the work observed and for presentation of underlying theory, Mondays, Tuesdays, Thursdays and Fridays 11:00-11:50. Meetings with the Director are held Wednesdays 11:00-11:50. The hours from 9:00-12:00 must therefore be reserved for this course.

The Teaching Laboratory

(See description of the Training Schools, pp. 24-25).

The Director of the Training Schools

All of the work of the Training Department is carried on under the general direction and supervision of the Director of the Training Schools. All students in the first term of Practice Teaching meet with the Director, Saturdays at 8 o'clock, for a general lecture on professional ethics, and other matters pertaining to professional success.

The Supervisors

In charge of each grade and of each special subject is a Supervisor, who is responsible for the progress of the pupils and the student teachers. Supervisors give students charge of definite classes or groups of children, direct their teaching and observation, and teach demonstration lessons as often as the needs of pupils and student demand. At least one lesson a day is thus taught by each Supervisor.

Supervisors meet student teachers Tuesdays and Thursdays at 8 o'clock for conferences on the general management of the grade room, the study of children, the direction of observation, and instruction in the special method of the common branches. They also meet each student in a special subject conference once a week. Here are discussed the concrete teaching problems of the student's own assignment, and outlines and plans for the ensuing week's work.

Student Teaching

Students are expected to assume as full responsibility as possible for the pupils in their direct charge, as well as to co-operate fully in the general work and interests of the grade group. The work comprises the teaching of a subject to an especially assigned group, for which careful preparation is made with lesson plans and in subject conferences; the observation of classes taught by Supervisors; participation in the care and management of the room; the study of individual children and the measurement of groups; the making of reports, etc., and attendance at meetings with the Supervisor and Director.

The Observation Room

Each term one grade room in the Normal Training School is designated as the Observation Room. No practice students are assigned to this room and all the teaching is done by the grade and special supervisors. In the course
of a year's time, a primary grade, an intermediate grade, and an upper grade become in turn the observation room. Opportunity is thus afforded for observing good teaching under conditions that closely approach the ordinary public school situation.

Assembly Exercises

Regular weekly assemblies of all the children in the Normal Training School, their teachers and guests, are held Thursdays at 11 o'clock, in the rotunda of the Training School. The programs, frequently in charge of groups of the children themselves, are often in the form of entertainment that represents a culmination of the work in the grade or some part thereof. Music, art, and folk-dancing are features of these programs, and often furnish the major part of the entertainments. These assemblies not only serve to unify the school, but also afford the student teacher an excellent opportunity for getting some notion of the work of different grades and the varying interests and abilities of the children.

Assemblies of a similar character are also held in the Portage, Richland, and Paw Paw Training Schools.
HIGH SCHOOL

MR. CAIN, Principal

The Normal High School is conducted with the aim of making it an active model high school. The Normal students who are preparing for high school positions may thus be given an opportunity for directed teaching under very favorable conditions. Experience has shown that with a trained critic teacher to supervise the work of the student teacher, a high standard of scholarship can be maintained and the high school student can get the advantage of the most improved methods of teaching. With the equipment of the Normal School available for high school students, there are exceptional opportunities offered for various activities as well as laboratory and library advantages.

The High School is a distinct organization of the Normal School. The student body has its own organization, activities, and entertainments. The school has competition in athletics and in debating with other high schools of the state. There is an assembly room where all the students meet at least once each day for announcements. Much attention is given to maintaining a close personal contact between the students and the Faculty.

The High School is on the accredited list of the North Central Association of Colleges and Secondary Schools and of the University of Michigan. Five courses of study are offered which gives the student ample opportunity to prepare for any line of work in which he is especially interested.

Admission. Only a limited number of students are admitted each year, hence applications should be made before July first in order to be certain of being entered. Pupils who present satisfactory eighth grade certificates will be admitted to first year classes without examination.

High School Assembly. The assembly room is equipped with stationary seats so that each student has a permanent location for school supplies and for study. All announcements are made and all high school programs are given here. The programs are held at least once a week and they differ in character to meet the pleasure of the students. A committee composed largely of students plans the programs.

HIGH SCHOOL ORGANIZATIONS

Western State Normal High School Chapter of National Honor Society, Chapter 498. The National Honor Society is composed of Seniors elected from the upper one-fourth of the class. Not more than fifteen percent of the class may be members. In electing from the upper one-fourth of the class, those students are chosen who stand high not only in scholarship but also in leadership about the school, and in character and conduct.

The Council. The Council is a debating club in the Normal High School which was formed at the close of the year 1919-1920. Its ultimate purpose is to create and maintain an interest in and knowledge of, high grade debating. The scheduled meetings of this organization are held on alternate Thursdays. Membership is open to anyone who wishes to subscribe to its constitution, and who is voted in by a two-thirds majority of members present.

The Masquers. A high school dramatic association was organized in 1916. It aims to interest students in the best forms of drama, and presents one public play during the year. Membership is limited to those students who possess dramatic ability.

High School Girls' Glee Club. This organization is open to all high school girls and is required of the girls in the high school music class. The club meets once each week for rehearsal. A musical program is furnished each term during
the year and in addition musical numbers are given on a number of other occasions. One-quarter unit's credit may be earned by membership in this club.

**High School Orchestra.** Its purpose is not only to create greater interest in music, but to encourage the study of various instruments, as well as to assist in the entertainment in school activities. Any student is eligible. Practices are held twice a week. One-quarter unit's credit may be earned.

**Le Salon Francais** was organized in 1926 to provide opportunity for activities which will further promote interest in spoken French and in French life and institutions. Meetings are held twice a month. Membership is open to all students who have completed two years of French and to all students of second year French who maintain an average of B.

**Hi-Y Club.** In 1916 a high school Y. M. C. A. club was organized which has grown steadily in membership and activity until it is one of the strongest organizations in the school. The purpose is to "create, maintain, and extend throughout the school and community, high standards of Christian character."

**A Girls' Y Club** was organized at Normal High School in the fall of 1925. The purpose of the club is expressed by the motto "Quest of the Best." Beside the general members there is a cabinet composed of all officers and chairmen of standing committees. The cabinet serves as a clearing house for all proposed work which originates either in the cabinet or general membership. Meetings of the club are held on alternate Friday mornings. The cabinet meets once a month. Every girl in high school is eligible.

**GENERAL INFORMATION WITH REGARD TO COURSES OF STUDY**

The High School offers five courses of study:— Academic, Classical, Scientific, Business, and General Culture. An outline of these courses follows on pages 132-136. The statements below furnish general information with regard to these courses.

1. The Arabic numerals, 1, 2, 3, 4, indicate that the course is a first year, second year, third year, and fourth year course.
2. The letters, a, b, c, after the numerals, indicate fall term, winter term, and spring term.
3. Of the five courses of study, four of them, the Scientific, Classical, Academic, and Business, prepare for college or university, while the General Culture course does not prepare for admission into college.
4. Sixteen units of credit are required for graduation.
5. Students should consult their advisers with regard to their courses. They should also secure information as early as possible concerning entrance requirements of the particular college for which they wish to prepare.
6. Students will not be recommended for college unless they maintain an average of "B" throughout their high school course.
7. Students who begin one course are not permitted to change without the consent of the principal or their adviser.
8. All students are expected to carry four five-hour subjects. Freshmen will not be permitted to carry more than four subjects; sophomores, juniors, and seniors may carry five subjects if consent is given by the principal.
9. Physical education is required of all students but no credit is given.
10. All freshmen are required to take chorus work for which one-fourth credit is given. Students may elect additional chorus work for which they will receive one-fourth credit per year.
11. Students may elect orchestra and receive one-half credit per year.
12. Students may earn credits in music by private lessons with a skilled instructor. The quality of the work done and the time given to the study will determine the credit.

13. Students who do not take more than three units of English must be sure that English Literature forms the third unit.

14. One term of Oral English is required during the sophomore year.

15. Students electing debating should first consult with the instructor.

16. Students electing a foreign language must take at least two years. No credit is given for one unit of a language.

17. Students who intend later to study medicine or dentistry are required to have two units of Latin and one each of physics and chemistry. Students who intend to study law should take two or more units of Latin.

18. Many eastern colleges require four years of Latin.

19. Home economics is required of all girls who have had no work in that department beyond the sixth grade.

20. Students preparing for college should elect a laboratory science.
ACADEMIC COURSE

Aim: To prepare those students who have not definitely decided upon their professions to meet the entrance requirements for the Liberal Arts course in any college or university.

**REQUIREMENTS**

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<td>Debating</td>
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<tr>
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<td>1 or 2</td>
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<td>Manual Arts</td>
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<td>Shorthand and Typing</td>
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<td>Art</td>
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**BUSINESS COURSE**

Aim: To prepare students for business life or for admission to Business Administration courses in colleges and universities.

**REQUIREMENTS**

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**First Year**

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**Second Year**

| English            | History 1 or 2   |
| Mathematics        | Business 2       |
| Foreign Language   | Science 2        |

**Third Year**

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**Fourth Year**

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Note—Shorthand and Typing must be taken as a unit for credit. Business 2 is the prerequisite to Accounting 3. If Science 2 is elected, Geography should have preference.
CLASSICAL COURSE

Aim: To prepare those students for college who are particularly interested in languages and literature.

REQUIREMENTS

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**First Year**

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**Second Year**

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**Third Year**

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**Fourth Year**

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Note—Students in this course who expect to study medicine or dentistry should take one year of laboratory science in addition to the one unit of science required.
# SCIENTIFIC COURSE

**Aim:** To prepare students for college work in the scientific professions.

**REQUIREMENTS**

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**First Year**

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<tr>
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**Second Year**

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**Third Year**

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**Fourth Year**

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Note—Students pursuing this course, instead of taking three years of mathematics and three years of science, may take four of one and two of the other.
GENERAL CULTURE COURSE

Aim: To give those students who do not intend to go to college a general training.

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Note—Only one-half unit is allowed for typewriting. Mathematics 1 and 2 are prerequisites for Science 3 and 4. In choosing either Home Economics, Manual Arts, Music or Art from the “required” list, follow first year choice during the second and third years.
ART

Miss Broemel

Art 1a. Sketching from flowers, fruit, and autumn leaves for use later in design. The fundamental principles of design and composition. Application of these principles in designs for portfolio covers, decorative compositions, and Christmas cards. Fall term.

Art 1b. Lettering and its application to problems in commercial design, posters, mottoes. Winter term.

Art 1c. Application of the principles of design in various problems such as leather tooling, bookbinding, clay modeling. One unit's credit for one year's work. Spring term.


Art 2b. Costume design for the girls, study of perspective for the boys. Winter term.

Art 2c. House design. Later in the term, outdoor sketching. One unit's credit for one term's work. Spring term.

BUSINESS

Mrs. Clark. Miss Watson

Business 2 a, b, c. An arithmetical study of business processes and an understanding of investments, insurance, banking, business forms and records, reference books, filing devices, and general elementary information necessary before taking a more advanced course in business training. This course also serves the purpose of vocational and educational guidance within the field of commerce. One unit's credit.

Business 3 a, b, c. A general view of the administration of production, of the work of transportation and communication, of marketing functions, marketing institutions, and the marketing tasks of a business man. Financial devices and institutions of our society and the connection of the business man with them. The aim of this course is to present this material in such a way that the general secondary school student may get a clear view of the economic aspects of our society and that the business student may have a broad foundation for his technical training. One unit's credit.

Business 4 a, b, c. This course emphasizes a review of the principles of grammar, of spelling, of punctuation, and of the fundamentals of letter writing. Considerable time is given to the writing of advertisements. One unit's credit.

Accounting 3 a, b, c. An elementary course including the theory of debit and credit, the keeping of accounting records, the construction and interpretation of balance sheets and profit-and-loss statements, and a study of the business papers involved. Prerequisite: Business 2 a, b, c. One unit's credit.

Elementary Shorthand 3 a, b, c. The aim of this course is the mastery of the principles of the Gregg system of Shorthand. One unit's credit with Typewriting 3 a, b, c.

Advanced Shorthand 4 a, b, c. The first two terms of this course include the reading of shorthand plates and the writing of dictated material. Its purpose is the acquirement of speed in taking dictation and accuracy in transcrip-
The last term offers an elementary course in office training, including secretarial assignments. **Prerequisite: Shorthand 3 a, b, c and Typewriting 3 a, b, c. One unit's credit with Typewriting 4 a, b, c.**

**Elementary Typewriting 3 a, b, c.** This course aims at a complete mastery of the keyboard and the ability to write from copy at a moderate rate of speed; the study of letter styles and copying. **One unit's credit with Elementary Shorthand 3 a, b, c.**

**Advanced Typewriting 4 a, b, c.** The first two terms of this course aim to develop speed and operating technique, manuscript writing, and statistical typing. The last term includes a course in office training in connection with Advanced Shorthand 4e. **Prerequisite: Elementary Typewriting 3 a, b, c and Elementary Shorthand 3 a, b, c. One unit's credit with Advanced Shorthand 4 a, b, c.**

**ENGLISH**

**Mrs. Biscomb**  
**Miss Osborne**  
**Miss Walker**

**English 1 a, b, c.** Required in first year. The work consists of composition, a study of literature, and the study of English grammar. Special emphasis is given to grammatical principles that contribute to correct expression. The composition work covers simple narration, exposition, and letter writing. The literature consists of *The Odyssey, Julius Caesar,* and *The Sketch Book.* Special training in oral expression is given. The memorizing of worthwhile quotations is required. Outside reading is emphasized and encouraged. Each student keeps a notebook. **One unit's credit.**

**English 2 a, b, c.** This course is divided into three terms: two for the study of literature and composition in the department of English, and one for the study of Oral English in the department of Speech. The work consists of composition, a study of literature, and the study of English grammar. Renewed emphasis is placed on the aims of the first year. The composition work aims to give a practical knowledge of the distinctive features of the four forms of discourse. The literature consists of *The Idylls of the King,* and *The Merchant of Venice.* The memorizing of worthwhile quotations is required. Considerable outside reading is required. Each student keeps a notebook. **One unit's credit.**

**English Literature and Composition 3 a, b, c.** This course, which includes both literature and composition, consists of a study of the periods of English literature from the beginning to the present time. Representative selections from the different periods are studied in class, and much outside reading is required. In composition attention is given to both oral and written work, including the writing of letters, checks, original abstracts, outlines, news items, editorials, essays, and individual class reports. The special aims of this course are to inspire in the students a real appreciation of the best literature, and in composition, to gain spontaneity in expression and to establish habits of accuracy in mechanical form, grammatical sentence structure, and punctuation. **One unit's credit.**

**Literature and Composition 4 a, b, c.** In this course the students are given a rapid review of English literature and composition studied the previous year, and a thorough study of American literature, including important biographical facts of the chief writers and a study of their most worthy productions. In composition the chief emphasis is placed on the four forms of discourse. Much practice is given in the writing of themes. The special aims of the eleventh grade still hold, but more attention is given to effectiveness in expression and arrangement. **One unit's credit.**
HISTORY

Miss Burnham  Mr. Rhynsburger  Miss Seekell

Two units of history are required in High School. One unit must be taken in the freshman or sophomore year, and the other in the junior or senior year.

Survey of Civilization 1 a, b, c. The purpose of the course is to give the students a clear conception of the great movements of history and an adequate understanding of typical civilizations of the past, in an effort to see man's progress from the beginning. It includes such topics as primitive man, oriental civilization, Greek culture, Roman civilization, the barbarian invasions, the Medieval age, the Renaissance, and the Reformation. In the study of each of these units the chief emphasis is placed on customs, industries, art, literature, scientific progress, religious beliefs, and political institutions, in order to find the basic factors that have contributed to the making of our own civilization. An effort is made to discover reasons why one group failed and another succeeded, in order to establish historical principles. One unit's credit.

History 2 a, b, c. This is a survey of the chief movements and most significant features in the history of western civilization since the middle of the eighteenth century. Emphasis is placed upon political movements and political reorganizations in the progress toward world democracy. Explanation of these is sought in economic changes, in inventions, discoveries and social regroupings as well as in the leadership of great personages and the influence of critical or constructive ideas. Included is a careful study of the World War and conditions in Europe since. One unit's credit.

History 3 a, b, c. The aim of this course is not only to study the narrative of American History, but to understand the European background, which is needed for true appreciation of so many American events. This is a year's work, and must be preceded by a unit of European History, preferably the course in Survey of Civilization 1 a, b, c.

The term divisions of the work are as follows:
(a) 1492-1789. American Colonial History, including the Revolution.
(b) 1789-1865. The early development of the American Republic, through the Civil War period.
(c) 1865-1925. The chief industrial, economic, and social changes in America since the Civil War, including a study of America in the World War. Open to both juniors and seniors. One unit's credit.

History 4 a, b. These are half year courses, either of which may be taken separately for a half unit of credit. These courses, while elective, ought to be taken by seniors, who have the background of the junior American History. Wherever possible the year's work should be taken as the Civics gives a better understanding of the American problems. In Civics, a careful study is made of national, state, and local forms of government, with constant reference to current events which illustrate the course. American problems is a separate half year course, in which the chief economic and social institutions of the United States are surveyed, along with some discussion of the unsettled questions of our own times. The year's work gives one unit of credit.

HOME ECONOMICS

Miss Walker  Miss Walton

Home Economics 1 a, b, c. Clothing. A study of the girl's wardrobe based on the needs of the high school girl, including: clothing design, fundamental stitches and processes with application to garments, use and care of machine, pattern study, care and hygiene of clothing, textile study, characteristics, manufacturing processes and uses dependent on these, with emphasis on materials used for school wear. One-half unit's credit.
Home Economics 1 a, b, c. Foods. This is a general course, completed in a half year, including a brief study of the girl and her relation to the home; it gives a survey of the work of the home with practice in food selection and preparation, meal serving, nursing, and home management. One and one-half hour periods five times a week. One-half unit's credit.

Home Economics 2 a, b, c. Clothing. This is a continuation of the work started in first year clothing. The work consists of more advanced problems in clothing construction. The aim is to develop appreciation of good technique, textile study, emphasis on household textiles and ability to choose materials wisely. A study of pre-school child’s wardrobe with garment construction, house furnishing unit, based on child’s wardrobe with garment construction, house furnishing unit, based on girl’s own room, and construction problems is made which aims to develop creative ability in home decoration. One-half unit’s credit.

Home Economics 2 a, b, c. Foods. This is a half year course elective for those who have had one year of Home Economics work in high school. It emphasizes family life and family problems, considering both personal and family budgeting; meal planning, marketing and serving to come within the family budget; and family relationships. One and one-half hour period five times a week. One-half unit’s credit.

LANGUAGES

Latin

Miss Hoebeke Miss Kraft

Latin 1 a, b, c. Study of forms and syntax, with frequent practice in conversation and connected reading in selections from easy narrative prose. Latin mottoes, songs and quotations are memorized. One unit's credit.

Latin 2 a, b, c. Readings based on Roman life, history, and literature, and selections from Caesar's Gallic Wars. Constant work in oral and written composition, form review, vocabulary, and word study. One unit's credit.

Latin 3 a, b, c. Cicero and Latin Composition. Prerequisite: two units of high school Latin or Course 100. The reading of four orations of Cicero and several of his letters along with a study of the political institutions of the Roman Republic; also the reading of selections from Ovid's Metamorphoses. Latin composition once a week through the year. One unit's credit.

Latin 4 a, b, c. Virgil. The first of six books of the Aeneid will be read or selections from Ovid's Metamorphoses will be substituted for part of the Virgil. A study of Greek and Roman mythology will be included in the course. One unit's credit.

French

Miss Tamin Miss Windsor

French 1 a, b, c. The text used for the first year is Bovee's La Premiere Année de Français. Grammar is taught inductively. It is the aim of the course to give from the first careful attention to pronunciation and ear training, and to have the pupil deal directly with the language itself through question, answer, action, picture, and informal dramatization. One unit's credit.

French 2 a, b, c. Douner and Knickerbocker's A First Course in French is the text used. A thorough review in grammar is given and more advanced grammar, such as the subjunctive, is introduced. The verb is especially stressed as one of the chief difficulties of French. Such texts as Le Voyage de
M. Perrichon and La Poudre aux Yeux by Labiche et Martin; Columba by Merimee; Le Roi des Montagnes by About; L'abbé Constantin by Halery are read. Stress is placed upon oral and written answers and resumes in French rather than upon direct translation. One unit's credit.

German
Miss Zimmerman

German 1 a, b, c. The aim of this course is to give the student a thorough knowledge of the fundamentals of German grammar, some facility in speaking and writing the language, and the power to understand and reproduce simple German reading matter. One unit's credit.

German 2 a, b, c. Reading of dramatic and novelistic German; composition work based on texts read, assigned topics, and collateral reading; reading and memorizing of selected poems. One unit's credit.

MANUAL ARTS
Mr. Huff

Manual Arts 1 a, b, c. Woodshop. A beginners course in elementary benchwork. The fundamental tool processes applied to simple construction and the elements of finishing. Includes shop sketching and woodturning. One unit's credit.

Manual Arts 2 a, b, c. Mechanical Drawing. Lettering, geometric problems, orthographic projection, surface development, isometric drawing, working drawings, detailing, assemblies, tracing and blueprinting. One unit's credit.

Manual Arts 3 a, b, c. General Metal. Elementary work in forge, sheet metal, machine shop. One unit's credit.

MATHEMATICS
Mr. Bartoo Miss Ford Mr. Hart Miss Shaunding

Algebra 1 a, b, c. A first-year algebra course which covers algebra to quadratic equations. The work of the fall term is given to the fundamental operations up to factoring. The work of the winter term is on factoring, fractional equations, and graphical representations; and during the spring term the work is continued through quadratic equations. One unit's credit.

Plane Geometry 2 a, b, c. An elementary course for second year students which continues throughout the year. The fall term is given to the work up to circles. The winter term work is on circles, proportion, similar polygons, and during the spring term the work is completed. One unit's credit.

Advanced Algebra and Solid Geometry 3 a, b. This course follows the courses of first-year algebra and plane geometry. The first half of the year is given to the algebra and the second half to the solid geometry. One-half credit is given in each subject. A student can take one of these subjects without taking the other. One unit of credit for the year's work.

Trigonometry and College Algebra 4 a, b. This course is intended for those students expecting to do college work in engineering, science, or mathematics. One and one-half terms are given over to the study of trigonometry. One-half unit of credit is given for this work. The other term and a half is given to the study of college algebra. This course gives a thorough review of the principles of elementary algebra and takes up more advanced work. One-half unit of credit is given for this work.
MUSIC
Mrs. Britton

Music 2 a, b, c. Open to students of any grade. A different phase is emphasized each term; fundamentals of music in the Fall term, history of music in the Winter term, and music appreciation in the Spring term. Class meets daily. One unit's credit.

Harmony. For advanced students. Class meets daily. One unit's credit.

Chorus. Open to all students. Four part choruses are studied and artistically sung. The aim is to develop greater appreciation for good music. A maximum of one credit may be counted toward graduation. Meets three times a week. One-half unit's credit.

Glee Club. Open to all students. Meets twice a week. One-fourth unit's credit.

PHYSICAL EDUCATION FOR BOYS
Mr. Waterman

Physical Education 1 a, b, c. Marching, calisthenics, elementary gymnastics, group games. Required in all High School courses.

Physical Education 2 a, b, c. Advanced marching, apparatus work, organized competitive games. Required in all High School courses.

Football—Squad and varsity practice..................Fall term
Basketball—Squad and varsity practice................Winter term
Track—Squad and varsity practice....................Spring term

PHYSICAL EDUCATION FOR GIRLS
Miss Wornor

Physical Education 1, 2, 3. This class meets twice a week throughout the year for general gymnastics, folk dancing, and organized games. Required in all High School courses.

SCIENCE
Mr. Boynton Mr. Marburger Mr. Wiseman

Science 1 a, b, c. General Science. The work in this course is identical with the true purpose of elementary science: to create a widespread interest in science as a thing of personal importance. It gives an insight into the general nature of science, lack of which causes many students to hesitate before entering the more specialized courses. Much experimental work is done, a notebook is required and the material presented aims to meet the present needs and interests of boys and girls just entering the adolescent period. Open to all high school students. One unit's credit.

Science 2 a, b, c. Biology. This course presents the fundamental facts of elementary biology and also aims to teach the student to see accurately what he looks at and to describe exactly what he sees, to teach him to think clearly and to base his conclusions on facts, to recognize the dominance of adaptation in living things and to make him a good citizen through practical knowledge acquired. Due attention is given to laboratory work, a notebook is kept, and much collateral reading is done. One unit's credit.
Science 2 a, b, c. Geography. The work in this course consists in a study of the general principles of geography in which the influence of the geographical environment is kept always in the foreground. The physical aspects of the subject are followed by a discussion of related human aspects. In the second half of the year, industrial or commercial geography involving the agricultural, mining, manufacturing, trading, and transporting forms of industry is studied. One unit's credit.

Science 3 a, b, c. Elementary General Chemistry. This is a course for beginners and presupposes no knowledge of the subject. Laboratory work is required and a notebook must be kept. No college credit is allowed for this work. One unit's credit.

Science 4 a, b, c. Physics. This is a beginning course in physics. Its general aim is to help train the student to think in a straight-forward and connected manner. It is also the purpose of this course to familiarize the student with the laws of the natural world which surrounds him and with the applications of these laws which he meets in every-day life. One unit's credit.

SPEECH

Miss Vandenbark

Speech 2 a, b, c. Oral English. Required of all students one term during the sophomore year. The object of the course is to train students to express original thought before an audience clearly and effectively. It emphasizes fundamental principles of speech. One third unit's credit. Fall, Winter, and Spring terms.

Speech 3 and 4 a, b, c. Public Speaking. Elective for third and fourth year students. One unit's credit.
A. Argumentation and debate.
B. Platform speaking; emphasis on the construction of a speech and the development of ease and poise in speaking before an audience.
C. Reading, story-telling, and interpretation.
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