19th ANNUAL YEAR BOOK

Western State Normal School
1922-1923

INCLUDING

Announcements for 1923-24

AND

REGISTER OF STUDENTS
1922-1923

KALAMAZOO, MICHIGAN
1923
WESTERN NORMAL AT NIGHT.
Western State Normal School

DWIGHT B. WALDO, A. M., LL. D., President
WILLIAM McCracken, Ph. D., Acting President
1922-1923

STATE BOARD OF EDUCATION
HON. A. M. FREELAND, Grand Rapids...............President
HON. FRANK CODY, Detroit.........................Vice-President
HON. T. E. JOHNSON, Lansing.......................Secretary
HON. F. A. JEFFERS, Painesdale....................Member

HON. T. E. JOHNSON
State Superintendent of Public Instruction.

Regular meeting of the Board on the last Friday of each month.

This Institution is a member of the American Association of Teachers Colleges.
### School Calendar for 1923-1924

(Holidays are printed in full-faced type)

<table>
<thead>
<tr>
<th>June, 1923</th>
<th>Nov. 1923</th>
<th>April, 1924</th>
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Western State Normal School

CALENDAR ANNOUNCEMENTS FOR 1923-1924

1923

SPRING TERM

Monday, April 2.......................... Spring Term Begins
Sunday, June 17.......................... Baccalaureate Address
Monday, June 18.......................... Alumni Day
Tuesday, June 19.......................... Commencement

SUMMER TERM

Monday, June 25.......................... Registration of Students
Tuesday, June 26.......................... Recitations Begin
Friday, August 3.......................... Summer Term Closes

FALL TERM

Tuesday and Wednesday, September 25 and 26..........................
Registration of Students
Thursday, September 27.......................... Recitations Begin
Saturday, September 29.......................... Faculty Reception to Students
Thursday and Friday, November 29 and 30.......................... Thanksgiving Recess
Wednesday, December 19.......................... Fall Term Closes

1924

WINTER TERM

Monday, January 7.......................... Winter Term Begins
Friday, March 28.......................... Winter Term Closes

SPRING TERM

Monday, April 7.......................... Spring Term Begins
Sunday, June 22.......................... Baccalaureate Address
Monday, June 23.......................... Alumni Day
Tuesday, June 24.......................... Commencement

SUMMER TERM

Monday, June 30.......................... Summer Term Begins
Friday, August 8.......................... Summer Term Closes

FALL TERM

Tuesday and Wednesday, September 23 and 24..........................
Registration of Students
Thursday, September 25.......................... Recitations Begin
Wednesday, December 17.......................... Fall Term Closes
Social Calendar, 1923-24

FALL TERM, 1923
Saturday, September 29 ................ Faculty Reception to Students
Friday, October 5 ........................ Men's Mixer
Friday, October 12 ...................... Student Party
Thursday, October 18 ................... Practice Teachers' Tea
Friday, October 26 ...................... High School Party
Saturday, October 27 ................... Student Party
Friday, November 2 ..................... Gymnasium Party
Friday, November 16 .................... Student Party
Saturday, November 24 ................ Y. M. and Y. W. Mixer
Wednesday, December 5 ............... Men's Supper
Friday, December 7 ........................ Sophomore Reception to Freshmen
Sunday, December 9 ..................... Annual Christmas Festival

WINTER TERM, 1924
Wednesday, January 9 ................... Men's Mixer
Saturday, January 12 .................... Student Party
Thursday, January 17 ................... Practice Teachers' Tea
Friday, January 25 ..................... Women's League Masquerade
Friday, February 8 ..................... Y. M. and Y. W. Mixer
Saturday, February 9 .................... Student Party
Friday, February 15 ..................... Gymnasium Party
Saturday, February 16 ................... High School Party
Wednesday, February 20 ................ Mid-Winter Play
Friday, February 22 ..................... Junior Banquet to Seniors
Friday, March 7 .......................... Rural Progress Day
Saturday, March 8 ...................... Student Party

SPRING TERM, 1924
Friday, April 11 ......................... Freshmen Reception to Sophomores
Thursday, April 18 ...................... Practice Teachers' Tea
Friday, April 18 ........................ Joy Night
Thursday, April 24 ...................... Conservation Day
10th Annual May Festival ............... Date to be Announced Later
Friday, May 2 ............................. Student Party
Saturday, May 10 ....................... High School Party
Friday, May 16 ........................... Student Party
Saturday, June 7 ......................... Sophomore Girls' Breakfast
Thursday, June 19 ...................... High School Commencement
Friday, Jun 20 ........................... Commencement Play
Sunday, June 22 ........................ Baccalaureate Address
Monday, June 23 ........................ Alumni Party
Tuesday, June 24 ......................... Commencement, 10:00 o'clock
Tuesday, June 24 ......................... Commencement Luncheon, 12:00 o'clock
Faculty

DWIGHT B. WALDO, A. M., LL. D. ........ 157 Thompson St. President
WILLIAM McCracken, Ph. D. ............ 918 Academy St. Acting President, 1922-23
JOHN C. HOEKJE, A. B. ............ 609 W. Walnut St. Registrar
BERTHA S. DAVIS ...................... 1219 Jefferson St. Dean of Women
FRANK E. ELLSWORTH, A. B. .......... 910 W. Lovell St. Director of Training School
WILLIAM H. CAIN, A. B. ............ 717 W. Lovell St. Principal of Normal High School
HUGH M. ACKLEY, A. M. ............. 532 Axtell St. Mathematics

GROVER C. BARTOO, A. B. .......... 927 Walwood Place Mathematics
AMELIA BISCOMB, A. B. ............ 226 W. Cedar St. English
ALICE E. BLAIR, B. S. ............ 718 W. South St. Household Arts
HAROLD BLAIR, B. S. ............. 1220 Academy St. Mathematics
*WILLIAM R. BROWN, PH. D. ......... 518 Minor Ave. English
CARL E. BURKLAND, A. B. .......... 122 W. Walnut St. English
ERNEST BURNHAM, PH. D. ............ 1532 Grand Ave. Director Department of Rural Education
MARGARET E. BURNHAM, A. B. .... 134 S. Prairie St. History
SMITH BURNHAM, A. M. .......... 134 S. Prairie St. History
RUTH COOLEY, A. B. ............. 907 Osborne St. Biology
ROBERT J. ELDRIDGE, M. S. ....... 1003 Grant St. Chemistry
MANLEY M. ELLIS, A. M. .......... 931 Austin St. Education

* Leave of Absence—1923-1924.
ANNA L. EVANS, A. M. .................. 132 Catherine St.  
Rural Education
JOHN P. EVERETT, A. M. ................. 903 W South St.  
Mathematics
LOUIS FOLEY, M. A. ........................ 1830 Oakland Drive  
English
JOHN E. FOX, A. M. ........................ 605 W Vine St.  
Physics
HARRY P. GREENWALL, A. B. .............. Y. M. C. A.  
Penmanship
GERMAINE G. GUIOT ....................... 425 Locust St.  
Physical Education
*THEODOSIA HADLEY, M. S. ............. 121 W. Lovell St.  
Agriculture
LUCIA C. HARRISON, M. S. .............. 315 W Walnut St.  
Geography
H. GLENN HENDERSON ..................... 888 W. Lovell St.  
Public School Music
THEODORE S. HENRY, PH. D. ............. 1410 Hillcrest Ave.  
Education
GEORGE HILLIARD, PH. D. ............... 723 W. Lovell St.  
Education
MRS. GEORGE HILLIARD ................... 723 W. Lovell St.  
Music
M. AMELIA HOCKENBERRY, A. B. ....... 723 W. Lovell St.  
French
FRED S. HUFF, A. B. ..................... 303 Oakland Dr.  
Manual Arts
DORIS HUSSEY ............................. 605 Academy St.  
Physical Education
JUDSON A. HYAMES ....................... 2252 Oakland Dr.  
Physical Education
MILDRED JOHNSON, A. M. ............... 301 Woodward Ave.  
Languages
FRANCES R. KERN, B. S. ................ 718 W. South St.  
Early Elementary Education
MRS. ROSE N. KERR ....................... 528 W. Cedar St.  
Public School Art
EUNICE E. KRAFT, A. B. ................. 706 Locust St.  
Latin
CARROLL P. LAHMAN, A. B. ............. 703 W. Lovell St.  
Speech

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>HELEN MASTER</td>
<td>A. B.</td>
<td>301 Woodward Ave.</td>
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<tr>
<td>HARPER C. MAYBEE</td>
<td></td>
<td>1423 S. Grand Ave.</td>
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<tr>
<td>EVA MERIENNE</td>
<td>A. B.</td>
<td>919 Walwood Pl.</td>
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<tr>
<td>FLOYD W. MOORE</td>
<td>A. M.</td>
<td>1320 Maple St.</td>
</tr>
<tr>
<td>MARY MOORE</td>
<td></td>
<td>220 Elm St.</td>
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<tr>
<td>CHARLES S. NICHOLS</td>
<td>A. B.</td>
<td>831 W. Lovell St.</td>
</tr>
<tr>
<td>LUCILLE NOBBS</td>
<td>A. M.</td>
<td>307 Ingleside Ter.</td>
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<tr>
<td>MILTON M. OLANDER</td>
<td>B. S.</td>
<td></td>
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<tr>
<td>EUGENE D. PENNELL</td>
<td></td>
<td>618 Summer St.</td>
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<tr>
<td>JESSE A. PLACE</td>
<td>A. M.</td>
<td>315 W. Cedar St.</td>
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<td>MARION RAFFERTY</td>
<td>B. S.</td>
<td>301 Woodward Ave.</td>
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<tr>
<td>ELEANOR V. RAWLINSON</td>
<td></td>
<td>422 S. Westnedge Ave.</td>
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<tr>
<td>HERBERT W. READ</td>
<td>A. B.</td>
<td>Y. M. C. A.</td>
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<td>SAMUEL RENSHAW</td>
<td>A. M.</td>
<td>722 W. Main St.</td>
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<tr>
<td>PAUL ROOD</td>
<td>A. M.</td>
<td>717 W. Lovell St.</td>
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<td>LOUSENE G. ROSSEAU</td>
<td>A. M.</td>
<td>416 Locust St.</td>
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<tr>
<td>ROBERT R. RUSSEL</td>
<td>PH. D.</td>
<td>440 W. South St.</td>
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<tr>
<td>PAUL SANGREN</td>
<td>M. A.</td>
<td>1109 Egleston Ave.</td>
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<tr>
<td>NANCY E. SCOTT</td>
<td>PH. D.</td>
<td>428 Oak St.</td>
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<tr>
<td>LAURA V. SHAW</td>
<td>A. M.</td>
<td>721 W. South St.</td>
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<tr>
<td>MARION J. SHERWOOD</td>
<td>B. S.</td>
<td>1936 Oakland Dr.</td>
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<tr>
<td>D. C. SHILLING, A. M.</td>
<td>History</td>
<td>1224 Academy St.</td>
</tr>
<tr>
<td>LYDIA SIEDSCHLAG</td>
<td>Public School Art</td>
<td>526 Douglas Ave.</td>
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<tr>
<td>*MARION SPALDING</td>
<td>Physical Education</td>
<td>522 Pearl St.</td>
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<tr>
<td>LAVINA SPINDLER</td>
<td>Education</td>
<td>315 W. Walnut St.</td>
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<tr>
<td>GEORGE SPRAU, A. M.</td>
<td>English</td>
<td>949 Walwood Place</td>
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<tr>
<td>ELAINE L. STEVENSON</td>
<td>Public School Art</td>
<td>703 W. Lovell St.</td>
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<tr>
<td>HELEN H. McCALMONT STONE</td>
<td>Biology</td>
<td>1002 W. Main St.</td>
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<tr>
<td>GEORGE TABRAHAM</td>
<td>Manual Arts</td>
<td>507 Pearl St.</td>
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<td>MARION TAMIN, PH. B.</td>
<td>French</td>
<td>903 W. South St.</td>
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<td>LAWRENCE TAYLOR, A. B.</td>
<td>Physical Education</td>
<td>2212 Glenwood Dr.</td>
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<td>RUTH VAN HORN, A. B.</td>
<td>English</td>
<td>428 Elm St.</td>
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<td>EMMA WATSON</td>
<td>Commerce</td>
<td>603 W. Walnut St.</td>
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<tr>
<td>ELMER C. WEAVER</td>
<td>Manual Arts</td>
<td>527 Cedar St.</td>
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<td>CORDELIA WICK</td>
<td>Commerce</td>
<td>706 Locust St.</td>
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<td>ELMER H. WILDS, A. M.</td>
<td>Education</td>
<td>422 Oak St.</td>
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<tr>
<td>LESLIE H. WOOD, A. M.</td>
<td>Geography</td>
<td>1210 Academy St.</td>
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<tr>
<td>CRYSTAL WORNER, A. M.</td>
<td>Physical Education</td>
<td>605 Academy St.</td>
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<tr>
<td>ELIZABETH T. ZIMMERMAN, A. M.</td>
<td>Latin and German</td>
<td>422 S. Westnedge Ave.</td>
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**TRAINING SCHOOL**

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<th>Name</th>
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<tr>
<td>FRANK E. ELLSWORTH, A. B.</td>
<td>Director</td>
<td>910 Lovell St.</td>
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<tr>
<td>LA VERNE ARGABRIGHT</td>
<td>Supervisor</td>
<td>434 Woodward Ave.</td>
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* Leave of Absence—1923-1924.
HELEN BARTON, A. B. .......................... 301 Woodward Ave. 
Supervisor
JANE BLACKBURN, B. S. ...................... 721 W. South St. 
Supervisor
MINNIE CAMPBELL, B. S. ..................... 916 W. Lovell St. 
Supervisor
LEOTI E. COMBS ................................ 809 Wheaton Ave. 
Public School Music
*VERLE COPPENS, B. S. ...................... 808 W. Kalamazoo Ave. 
Supervisor
ETHEL HALE .................................. 416 Locust St. 
Supervisor
INA KELLEY, A. B. ........................... 826 W. Kalamazoo Ave. 
Supervisor
FLORENCE McLOUTH, A. B. .................. 414 Locust St. 
Supervisor
KATHERINE MULRY, B. S. ................... 735 Academy St. 
Supervisor
EDITH SEEKELL, A. B. ....................... 722 W. Lovell St. 
Supervisor
*LOUISE STEINWAY, B. S. ................... 830 W. Lovell St. 
Supervisor
JANE B. WELLING ............................. 904 Kalamazoo Ave. 
Public School Art

PORTAGE SCHOOL

CLEORA SKINNER ................................. Portage, Mich. 
Principal
LEWIS CRAWFORD ............................... Portage, Mich. 
Supervisor
MARIAN I. HALL ................................. Kalamazoo, R. 8 
Supervisor
ANNA LUBKE ..................................... Kalamazoo, R. 6 
Supervisor
VERA PICKARD .................................... Kalamazoo, R. 6 
Supervisor

VINE STREET SCHOOL

FLORENCE R. EDDY .............................. 802 W. Lovell St. 
Supervisor
KATE H. VICK .................................... 721 W. South St. 
Supervisor

* Leave of Absence—1923-1924.
MICHIGAN AVENUE SCHOOL

LELA McDOWELL ........................................... Kalamazoo, R. 3
  Supervisor

LIBRARY

ANNA L. FRENCH ........................................... Kalamazoo, R. 9
ATTA CHAPMAN ........................................... 616 Locust St.
LULA D. LOOMIS ........................................... 919 Walwood Pl.
AGNES H. HARVEY ........................................... Academy and Monroe Sts.

OFFICES

JOHN C. HOEKJE, A. B. .................. 609 W. Walnut St.
  Registrar
BERNICE G. HESSELINK, Clerk ........... 506 Village St.
LLOYD E. JESSON, Clerk .................. 524 Oak St.
MYRTLE ALLISON, Clerk ................. 503 S. Westnedge Ave.
ADA M. CLINE, Clerk ....................... 508 Woodward Ave.
  Appointment Secretary
GRETCHEN M. SWITZER ...................... 1219 Jefferson Ave.
LEAH SMITH, Extension Clerk ........... 701 Davis St.
ALICE SMITH, Clerk ......................... 415 Oak St.
BLANCHE DRAPER, Editor Normal Herald .. 724 Minor Ave.
SARA E. ACKLEY (Coop. Store) ........... 716 Wheaton Ave.

STANDING COMMITTEES, 1923-1924

The President is ex-officio a member of each committee.
Appointment Committee—E. Burnham, S. Burnham, Davis, Ellsworth, Henry, Hoekje.
Assembly Exercises—Everett, Hoekje, McCracken.
Athletics—S. Burnham, F. Moore.
Checkers—Ellis, Foley, Greenwall, Hilliard, Rood, Russel, Sangren, Shilling, Wood.
Course Advisors—
  A. General—S. Burnham, Ellsworth, McCracken.
  B. Departmental—
    A. B. Degree—Sprau, Burklund.
    Art—Stevenson, Siedschlag.
    Commerce—Fennell, Wick, Watson.
    Early Elementary—Kern, Spindler, Tamin.
    Extension—Hoekje.
    Household Arts—A. Blair, M. Moore.
    Junior High School—F. Moore, Rawlinson, Scott, Wilds.
    Later Elementary—Henry, Eldridge, Johnson, Seekell.
Limited—E. Burnham, Evans.
Music—Maybee, Henderson, Mrs. Hilliard.
Normal High School—Cain.
Physical Education for Men—Taylor, Olander.
Physical Education for Women—Guiot, Hussey.
Rural—E. Burnham, Evans.
Senior High School—Fox, Zimmerman, Ackley, Cooley.
Unclassified—H. Blair, Bartoo.

Course of Study—Henry, H. Blair, E. Burnham, Ellsworth, Spindler, Zimmerman.
Extra Studies—H. Blair, Davis, Russel.
Health—Davis, Ellsworth, Taylor, Worner.
Lectures and Entertainments—Zimmerman, Davis, Henderson, Rawlinson.
Schedules—Hoekje.
Scholarship—McCracken, Davis, Ellsworth, Henry, Hoekje, Spindler.
Social Life—Davis, Cain, Foley, Evans, Guiot, Wilds, A. Blair.

Student Organizations—
Faculty Advisory Board—Davis, Moore, Steinway.
Y. M. C. A.—Greenwall, Hyames, F. Moore.
Western State Normal School

Western State Normal School is located at Kalamazoo, the county seat of Kalamazoo County, in the heart of southwestern Michigan. In beauty, in accessibility, and in general educational advantages this thriving city of 50,000 inhabitants affords an ideal location for the institution.

Kalamazoo is an important railroad center easily accessible from all parts of Michigan and adjoining states. It is the halfway point between Detroit and Chicago on the main line of the Michigan Central Railway. The Pennsylvania, the New York Central, and the Chicago, Kalamazoo and Saginaw railroads, all running north and south, pass through Kalamazoo. In addition to these main lines, the South Haven branch of the Michigan Central, the Kalamazoo Lake Shore and Chicago, and the Grand Trunk Railroads, together with the Michigan Railway Company trolley lines east and north afford convenient travel to and from all points in southwestern Michigan.

The advantages of Kalamazoo as a place of residence are unquestioned. The city is beautiful and well kept. The climate is healthful, the water supply is excellent, and the sanitary conditions are unusually good. Situated in the center of a rich farming country, Kalamazoo is widely known for its diversified industries and educational advantages.

The Normal School has the advantages of neighborhood with other institutions of kindred purpose. The Public Library, under the charge of the City Board of Education, has a well-chosen collection of 50,000 volumes. Kalamazoo College, Nazareth Academy, and the Public Schools give for the one community notable opportunities for education.

PURPOSE OF THE SCHOOL

The purpose of the Normal School as constituted by law is to prepare teachers for the public schools, and to this end especially the work of the school is organized and conducted. Recognizing that scholarship, familiarity with children, and a proper attitude toward the work of teaching are fundamental in all professional preparation of teachers, Western State Normal School has planned courses of study to give as thorough knowledge of the subject matter as possible in the time devoted to the work, to emphasize the principles underlying the teaching process, and to keep before the student the fact that the highest aims of education are character and service. Every possible
means is provided for accomplishing these purposes and for bringing the student into direct acquaintance with the best in modern thought and life. The spirit of hearty co-operation between faculty and students in enterprises and interests of the school is fostered at all times.

Responsibility for the proper attitude of students toward the school and community is, for the most part, necessarily thrown upon the students themselves. While it is the purpose of the school to incite the student continually to higher and better ideals of character and public service, it is impracticable for the Normal School to attempt the task of reforming young men and women. No personal effort will be spared to assist students in every possible way, but those who are manifestly lacking in the essentials of good character, or in ability to become efficient instructors of children will be requested, whenever the evidence of their unfitness is complete, to withdraw from the school.

**GROUNDS**

**Campus.** The school is located on a commanding bluff west of the valley in which Kalamazoo lies, nearly opposite the central part of the residence section of the city, and within a mile of the business district. From the various sites offered by the citizens of Kalamazoo, the tract of twenty acres on Prospect Hill was chosen by the State Board of Education as combining to an unusual degree natural beauty with practical advantages. From the hilltop one gains a magnificent view of the city and the river valley. Much of the tract is wooded, and in the preparation of the ground special care has been taken to save the natural forest. The street railway runs along the western border of the site, while within three blocks on the east are situated the High School, the Manual Training, and the Vine Street Schools of the city system.

**Athletic Field.** The athletic field was purchased at a cost of $12,000 in the fall of 1913. The grounds, more than thirteen acres in extent, lie between the Michigan Central Railroad and the Eames mill race. One corner of the field is less than eight rods from the nearest point of the Normal School campus, so that in accessibility the location is ideal. The baseball diamond is in use and the work of grading the entire field is nearly completed. A quarter-mile running track and a football gridiron have been constructed. The field, when completed, will include two baseball diamonds, two football fields, and several tennis courts. Bleachers for baseball, football, and track have been provided. In facilities for outdoor recreation and athletics, the athletic field is second in Michigan only to Ferry Field.

**New Purchases of Land.** Important additions to the land holdings of Western State Normal have been made recently. Among these is the Fletcher property, a magnificent building
site fronting on Oakland Drive. This property is fourteen rods in width and extends 440 feet east on Austin Street.

Other important purchases consist of land lying between Michigan Avenue and Oakland Drive, northeast of the present athletic field. This holding includes the factory building operated for many years for Mr. Gardner Eames. The new Industrial Arts building was erected on the triangle consisting of the purchases referred to above.

More recent purchases include a plot of about fifteen acres of land directly opposite the main campus and extending along Oakland Drive from Michigan Avenue to Oliver Street. This latest addition makes splendid provision for taking care of the future growth of the school.

BUILDINGS

The buildings are seven in number, modern, and admirably adapted to the purposes for which they were intended. While the present buildings are inadequate for the growing needs of the school, a running appropriation for buildings made several years ago and now available, provides for immediately future expansion, as soon as conditions brought on by the war will have so changed that the erection of buildings may be expedient.

1. Administration Building. This structure contains in addition to the administration offices, fourteen classrooms, the assembly room, and the library and reading-rooms. The Normal Co-operative Store is located on the first floor. The site occupied by the Administration building is well known for the panoramic view of Kalamazoo and the surrounding country.

2. Training School Building. This building, 118 feet long and 100 feet wide, consisting of two stories and a basement, is one of the best planned training school buildings in the country. In completeness and convenience the building is a model.

3. Gymnasium. The Gymnasium is the largest among the normal schools of the country. The main floor is 119 feet long and 68 feet wide, entirely clear of posts or obstructions of any kind. The running track, 9½ feet wide, is suspended from the structural steel supporting the roof of the building. In the basement are lockers, shower baths for men and women, and a swimming pool 52 feet long. All classes in public school gymnastics meet in the Gymnasium.

4. Science Building. The Science building is located directly west of the Gymnasium and covers a ground area 148 feet long and 78 feet wide. The building is three full stories above the basement. The first floor affords classrooms and laboratories for the departments of Education, Psychology and Geography. The Department of Biology is housed on the second floor, and on the third floor are classrooms and laboratories for
"WESTERN"
Administration Building and Training School.
the departments of Physics and Chemistry. The building and its splendid equipment greatly increase the efficiency of the several departments of science.

5. Manual Arts. The new Manual Arts building is beautifully located adjoining the athletic field and facing the point of land formed by the intersection of Michigan Avenue and Oakland Drive. It is a fireproof structure of modern factory type with very high ceilings and plenty of light. The rooms are all especially designed to serve the various classes in the most effective manner.

The woodworking unit is composed of two shops with the finishing room, lumber room, and instructors' office between them. All the woodworking machinery is located in one of these shops where all the advanced classes are held. The mechanical drawing room is located particularly well, it being in the north corner with light on two sides. The automobile shops and machine shops are so arranged that the tool and supply rooms, and instructors' office are all easily accessible to them.

The wash and shower rooms adjoin the locker room, the foundry is close to the pattern shop, the gas engine room and the auto shop are connected with an overhead track and many other minor conveniences are incorporated in the general arrangement, all of which go to make up a most complete and modern Manual Arts plant.

6. Library. The new library building is now well under way and promises a pleasant relief from the crowded conditions which have hampered both students and faculty for so long. It is located at the north end of the hill, overlooking the wide valley to the east, north, and west; and its exterior corresponds to the general type of the other buildings. There are three stories, the basement being practically all above ground.

The wide entrance lobby has on one side a delivery desk, with the stack room back of it, filling the northeast corner of the building—a steel constructed stack well, which will eventually include the three stories, making six decks of stack. At the left of the lobby are staff work rooms, and a faculty reading room. All the rest of this floor is given up to reading rooms, one large one extended up through the second story and a small one at each end, with balcony rooms over them. The second floor has two good sized lecture rooms and some smaller class or seminar rooms. The basement floor also has class rooms; as well as a large study room, and locker rooms.

When completed, the library will house about eighty thousand volumes and will provide space for four hundred readers.

7. The Playhouse. In the winter of 1922 the old manual arts building was given over to the speech department for a work shop. The Western Normal Players financed and did much of the work of re-modeling the building into a most attractive and
usable Play-House. The proscenium arch has an opening of eighteen feet in width and twelve feet in height and the stage has a depth of sixteen feet. Two large dressing rooms are at either side of the stage and a large property room and work shop is at the back of the stage. The Players, and any students interested, have the opportunity to design and execute their stage settings in the courses offered in Play Production and Stage Design.

GENERAL EQUIPMENT

Western State Normal is adequately provided with up-to-date equipment to do thoroughly the work for which it was established. The School is well organized into departments, and each department is splendidly equipped to do superior work in its particular field. The departments of Art, English, History, Languages (Ancient and Modern), Mathematics, Music, Rural Education, and Speech have convenient and attractive class-rooms and lecture-rooms, distributed, for the most part, on the various floors of the Administration building. In addition to excellent library facilities these departments are constantly adding to their equipment such apparatus and instruments as are necessary for present-day high-grade instruction.

Physical Education. The Gymnasium is modern in equipment as in design. Sufficient apparatus is at hand for excellent work in physical education and indoor athletics.

Commerce. The Department of Commerce has adequate quar ters in the basement of the Science building. Complete equipment has been provided for first-class work.

Household Arts. The Department of Household Arts is in every way thoroughly equipped to do satisfactory work. Spacious kitchens and laboratories for courses in cooking, home nursing and home sanitation and management, are located in the basements of the Administration and Training School buildings. Here also are the shops for sewing, millinery, and other arts of the home. Four thoroughly trained teachers are in charge of different phases of this work, and a uniformly high grade of efficiency is assured.

Manual Arts. The Department of Manual Arts is well pro vided with apparatus for all lines of work, having in the machine shop a planer, drill press, emery grinder, a motor-driven saw and six speed lathes, five of which are individual motor driven. This shop also contains six steel-covered benches equipped with vices for work in chipping and filing. The forge shop con tains twelve down-draft forges and a combination shear and punch. The wood-turning and pattern-making room contains fifteen lathes, twelve of which are the under-drive type and three are motor-head type, a band saw, motor-driven joiner,
motor-driven emery grinder and bench trimmers. The cabinet-making equipment consists of a motor, joiner, universal saw, surfacer, and band saw.

Science. The Department of Biology is located on the second floor of the Science building. Several classrooms especially designed to meet the needs of the department have been provided, together with separate laboratories for special work in physiology, hygiene, general biology, botany, zoology, 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.

The Department of Chemistry occupies commodious and well equipped quarters on the third floor of the Science building. The following new pieces of apparatus have been purchased: a delicate analytical balance, six good balances for general student work, a Parr calorimeter, electric combustion furnace, electric drying apparatus, heat engine, a good spectroscope, gas analysis apparatus, a new still for distilled water, platinum ware for quantitative analysis, graduated flasks and apparatus for volumetric work, and much glassware and chemical material for general chemical work.

The Department of Geography is located on the first floor in the Science building, where two classrooms, a laboratory, a reading-room with a reference library, and a photographic dark room greatly increase the range and efficiency of the work. The equipment consists of (1) all the current publications of the United States government—geological, agricultural, commercial, and industrial; (2) current geographic journals; (3) topographic maps, folios, several hundred general maps, wall maps, globes, etc.; (4) 2,000 slides, and a large collection of rocks and minerals for illustrating commercial geography; (5) a full set of meteorological apparatus; and (6) apparatus for illustrating physical geography.

The Department of Physics occupies the north half of the third floor of the Science Building. It consists of two lecture rooms, two good sized laboratories, a dark room for photometric and spectrum work and photography, a smaller dark room for individual use, and three good sized stock rooms, one of which is equipped with bench and tools for making or repairing apparatus. There is also an office where students may consult freely with the instructors. The equipment consists of much of the essential apparatus for classroom demonstration and for individual laboratory work by the student and is being augmented from year to year.

The apparatus in mechanics is designed to give the student an understanding of the fundamentals of the subject and of the behavior of machines he may meet in his experience outside the school. A number of the machines are of the commercial type.
In electricity the equipment is unusually strong. Both direct current up to 200 volts and alternating current of 120 volts, 60 cycles, are available to each table in the laboratories and lecture rooms, and the switch panels are so constructed that the throwing of a switch is all that needs to be done to change from one type of current to the other. The voltmeters, ammeters, and wattmeters are of the celebrated Weston manufacture and have sufficient ranges to take care of any problems that may arise. For work in alternating currents a fair proportion of the equipment is devoted to meters of this type.

Fine opportunities are offered students who are interested in photography as the dark room offers ample space and equipment for all processes of photography. A large Eastman printer makes the work of printing an easy matter. The dark room is amply large to permit work by a number of students in light. Work in heat is facilitated by a supply of gas for each table.

In addition to the general equipment mentioned above, the Department has a fine radio telegraph and telephone receiving outfit capable of receiving waves from less than 200 meters to 20,000. The set is of the DeForest type. As an adjunct to this outfit it possesses a Magnavox for group reception of signals and messages. Auxiliary equipment, including vacuum tubes, condensers, and inductances, for the setting up of circuits for the detection and generation of wireless waves is provided and will be added to from time to time.

The Department of Education and Psychology now occupies quarters on the first floor of the Science building. In addition to well equipped offices and recitation rooms, two large laboratories, a dark room and a workshop for the construction of special apparatus have been assigned for the exclusive use of the department. The library contains complete files of the more important psychological journals as well as a large list of the standard works of reference on the general subject of education. During the past year many additions have been made to the equipment of the department, so that all of the instruments necessary for a standard course in experimental psychology are at the disposal of the student. Chronoscopes, kymographs, tachistoscopes, plethysmographs, ergographs, rotators, aesthesiometers, automatographs, etc., constitute a part of this equipment. The department also possesses a Bausch and Lomb balopticon of the latest model for slide and opaque projection.

THE LIBRARY

The Library at present occupies three rooms in the Administration building, a stackroom and two reading rooms, thrown together by a large archway, giving a floor space of 100 feet long and 30 feet wide. The accessions now number 23,000 vol-
umes. These are arranged according to the Decimal Classification and indexed by a card catalogue of the dictionary type. All students have access to the stackroom, as well as to the periodicals and reference collections, during library hours, and an effort is made to insure intelligent use of all library tools and the principal works of reference by a course of ten lessons required of all first-year students.

The reading-room walls are shelved with the files of bound magazines for reference work, and the periodicals indexes are found in this room.

The use of the Kalamazoo Public Library, a comprehensive collection of 50,000 volumes is generally permitted to the members of the school, and gives a much appreciated opportunity for supplementary work.

The periodical list is as follows: The star (*) marks complete files.

Administration
American blacksmith
American boy
*American child
American cookery
American exporter
American food journal
*American historical review
*American journal of botany
*American journal of psychology
*American journal of sociology
American labor legislation review
American magazine of art
American mathematical monthly
American naturalist
American physical education review
American political science review
American review
American review of reviews
American school
American school board journal
American schoolmaster
*Annals of the American academy of political and social science
Archives of psychology
Art and archaeology
Asia
Association men
*Atlantic monthly
Automobile dealer and repairer
Biological bulletin
Biometrika
Bird lore
Blackwood's magazine
Book list, American library association
Bookman
Book review digest
Botanical abstracts
Botanical gazette
British journal of psychology
Bulletin of the American meteorological society
Bulletin of bibliography
Bulletin of the Geographical society of Philadelphia
Bulletin of the imperial institute
Bulletin of the Pan-American union
Bulletin of the Torrey botanical club
Catholic world
*Century
Chicago tribune
Christian science monitor
Classical journal
Classical philology
Classical weekly
Commercial America
Congressional digest
Contemporary verse
Le Costume royal
Country gentleman
Country life in America
Cumulative book index
Current history magazine
Current opinion
Detroit free press
Dial
Drama
Ecology
Edinburgh review
Education
*Educational administration
*Educational review
Elementary school journal
Elite
*English journal
English leaflets
La Esfera
Etude
Eugenics review
Fashionable dress
Filing
Fortnightly review
*Forum
Furniture manufacturer and artisan
*General science quarterly
Geographical journal
*Geographical review
Good housekeeping
Gregg writer
Guide to nature
*Harper's monthly magazine
*Hibbert journal
Hispania
Hispanic American historical review
*Historical outlook
Home lands
House and garden
House beautiful
Illinois association of the teachers of English
Illustrated London news
Illustrated milliner
L'Illustration
Independent
Indiana magazine of history
*Industrial arts magazine
Industrial education
Industrial management
International index to periodicals
International journal of ethics
International studio
John Martin's book
Journal of abnormal psychology
Journal of accountancy
Journal of educational psychology
Journal of educational methods
Journal of educational psychology
Journal of experimental psychology
Journal of geology
*Journal of geography
Journal of heredity
*Journal of home economics
Journal of industrial and engineering chemistry
Journal of the National educational association
Journal of philosophy
Journal of political economy
*Journal of rural education
Keramic studio
*Kindergarten and first grade
Ladies' home journal
Library journal
Life
Literary digest
Literary review
*Living age
London mercury
London times—weekly edition
Manchester guardian—weekly edition
*Mathematics teacher
Mental hygiene
Michigan farmer
Michigan history magazine
Mind and body
Mississippi valley historical review
Moderator topics
Modern language journal
Modern language notes
Modern language review
Modern philology
Modern Priscilla
Monthly evening sky map
Monthly labor review
Moving picture age
Musical America
Musical quarterly
*Nation
National builder
*National geographic magazine
National municipal review
Nation’s business
Nation’s health
Nature study review
New phytologist
New Republic
New York times
Nineteenth century
Normal instructor and primary plans
North American review
Office appliances
Office management
Open road
Our world
Outing
Outlook
*Pedagogical seminary
Pencil points
Physiological reviews
Playground
Poet lore
Travel
*Ungraded
Villager
Visual education
Vocational education
Vogue
Political science quarterly
Popular science monthly
Poster
Primary education
Printing art
Proceedings of the academy of political and social science
*Psychological bulletin
*Psychological clinic
Psychological monographs
Psychological review
Public libraries
Q S T
*Quarterly journal of speech education
Quarterly review
Readers’ guide to periodical literature
Reference shelf
Revue des deux mondes
Rhodora
Rudder
St. Nicholas
*School and society
School arts magazine
School century
School life
School review
School science and mathematics
Science
Science and invention
Science progress
Scientific American
*Scientific monthly
*Scribner’s magazine
Springfield republican
Survey
System
Teachers college record
*Theatre arts
Theatre magazine
LIBRARY REGULATIONS

The library is open from 7:30 in the morning till 9 in the evening, on every week day except Saturday, when it closes at 5.

Books for general class reference do not leave the Library during these hours, in order that they may be available for as many students as possible. At closing time, they may be drawn out, on slips made out at the desk, to be returned promptly at 8 o'clock the following morning. Books may be reserved for over-night use by applying at the desk.

Books for special reports or for general reading may be drawn out on "Time slips" by asking permission at the desk. These may be kept for one week.
Activities and Organizations

ASSEMBLY EXERCISES

Students and members of the faculty meet every Tuesday morning at nine o'clock. The exercises are in charge of a special committee and consists of musical numbers provided by the Music Department of the school and an address given by a member of the faculty or by an invited guest.

WOMEN'S LEAGUE

The Women's League, organized in 1913 to look after the social welfare of women of the school, was reorganized in 1919. All women students become members upon entering by paying a fee of twenty-five cents each term at the time of registration. The purpose of the organization is to aid the new students in every possible manner, and to promote closer acquaintances among the women of the school.

STUDENTS' CLUBROOMS

A Students' Clubroom located in the Administration Building is used by the young women for quiet study or rest between classes. A similar room is set aside for the use of the young men. These rooms are comfortably and tastefully furnished in a way which offers a homelike atmosphere.

THE APPOINTMENT COMMITTEE

In order to serve the best interests of the superintendents throughout the state in securing teachers adapted to the needs of the various schools, the work of recommendation is placed in the hands of the Appointment Committee. This committee consists of members of the faculty who are in a position to know intimately the work of each student, both in Training School teaching and in classroom work. Full records regarding previous experience of students, range of salaries, grades for which they are adapted, photographs and detailed statements concerning ability and personality from the instructors are kept on record in the office of the Training School. These records are sent out upon application to the superintendents, or can be referred to by them when they visit the Normal
While a personal interview with the students at the school is to be preferred, the committee makes every effort to make discriminating selection of students for vacancies referred to them by superintendents. A complete alumni file with the reports from the present field of work of each student makes it possible to name candidates for work which requires more mature and experienced people than those in the class of the current year. Each year some of the graduates are thus taken to larger cities, county normal work, superintendencies of larger places, etc. The committee desires to be of the greatest possible service to the schools of the state and each year extends its work.

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 1923 its number will exceed 3,000, and nineteen 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. A Western Normal banquet is held at this time, and during commencement week a reception and luncheon for the graduates are important events.

Through Normal news letters the school aims to keep its alumni informed in regard to various matters of interest and development. A special effort is also made each year to keep in touch with the graduates through the Appointment Committee. In this way are secured the mutual help and friendly relations which keep the school and its graduates interested in each other.

THE WESTERN NORMAL HERALD

The Herald, the official weekly publication of the Normal School, made its first appearance in the Summer Term of 1916. It is issued as a four-page paper, newspaper size, each Wednesday morning. The Herald endeavours to chronicle faithfully all the important activities of the school. From time to time, throughout the year, special numbers are issued. These are 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 are also giving the paper hearty support. The subscription price is one dollar for the forty-two issues of the year, Summer Term numbers included. Subscriptions may begin at any time.
ACTIVITIES AND ORGANIZATIONS

ATHLETICS

Western State Normal offers exceptional advantages in athletics and physical training. The Gymnasium, one of the best in the country in structure and equipment, forms the center of athletic work. The Gymnasium is provided with abundance of floor space for all indoor games, a large running track of modern design, a swimming pool and shower baths, and all the latest appliances for gymnastic exercises. Outdoor games and athletics are held on the new athletic field. Seven efficient instructors have charge of the work in physical training, thus assuring careful consideration of the physical needs and health of the students. It is the purpose of the work in this department to send out teachers physically strong and healthy, and to this end the work is planned. Individual attention is given the students in all indoor and outdoor exercises.

Opportunities for all sorts of games are provided. Basketball, indoor baseball, and track work will be given due prominence. During recent years successful football and baseball teams have been organized. Tennis courts on the campus are open to students and faculty. A tennis tournament is held annually among the players of the school. It is planned to make the athletic work an organic part of the student life in order to foster the health and efficiency of the teachers of the state.

MUSICAL ORGANIZATIONS

Chorus. The Kalamazoo Choral Union is incorporated under the state law with the object of cultivating musical interest and up-building choral music in Western State Normal School and the city of Kalamazoo.

The following artists and organizations have appeared in Kalamazoo in recent years: Galli-Curci, Tetrazzini, Garrison, Gluck, Peterson, Sundelius, Classon, Homer, Ingram, Braslau, Keyes, Althouse, Werrenrath, Middleton, Martinelli, Murphy, Whitehill, Kingston, Harrison, Graveure, Hoffman, Ganz, Cortot, Levitzki, Kreisler, Heifitz, Spaulding, Casals, Seidel, Minneapolis Orchestra, Emil Oberhoffer, Conductor; New York Symphony Orchestra, Walter Damrosch, Conductor; Chicago Symphony Orchestra, Frederick Stock, Conductor; Russian Symphony Orchestra, Modest Altschuler, Conductor; Philadelphia Symphony Orchestra, Leopold Stokowski, Conductor.

The following choral works have been presented: Handel’s “Messiah” (seven times), Mendelssohn’s “Hymn of Praise” (five times), Elijah; Bruch’s “Arminius,” Haydn’s “Creation,” Choral Fantasia of Wagner’s “Lohengrin,” Cowan’s “Rose Maiden,” Gaul’s “Holy City” and “Ruth,” Saint Saens’ “Sampson and Delilah,” Gounod’s “Faust,” Verdi’s “Requiem.”

The following course was offered last year: November, Lucrezia Bori, soprano; December, Saint-Saens’ “Oratorio de
Noel,” Kalamazoo Choral Union; January, Leopold Godowsky, Pianist; February, Jascha Heifetz, Violinist; May Festival, Chicago Symphony Orchestra, Frederick Stock, Conductor; Children’s Chorus, "Singing Leaves,” Leoti Combs, Director; Berlioz, "La Damnation de Faust,” Soloists, Frances Peralta, Mario Chamlee, Royal Dadmun; Harper C. Maybee, Conductor.

**Glee Clubs.** Three glee clubs are maintained during the year, a Freshman Girls’ Glee Club, a Sophomore Girls’ Glee Club, and a Men’s Glee Club. These clubs take a prominent part in the musical life of the school.

**Orchestra.** Any student who has moderate success with any instrument is eligible to membership. Weekly rehearsals are held and the opportunity for ensemble work under direction is one of which a number of students take advantage.

**Band.** A band of twenty pieces has been maintained for a number of years. Recently, through the efforts of the Student Council, it was equipped with attractive and tasteful uniforms.

The following instruments are represented: cornet, clarinet, flute, piccolo, alto, slide trombone, baritone, bass, saxophone and drums. The band has played an important part in the life of the school, appearing at football and basketball games. During the present year it has been under the direction of Mr. C. Z. Bronson, a band leader and orchestra conductor of wide reputation.
THE BAND.
Student Organizations

THE WESTERN NORMAL PLAYERS

The Players were organized at the close of the school year of 1914 as the Dramatic Association. In the spring of 1922, when their Play House was formally opened, they reorganized as the Western Normal Players. Their aim is to arouse and direct student interests in the drama through the artistic production of plays of real merit. Membership is obtained through tryouts which are held during the fall term.

THE FORUM

This society was organized in answer to a need which was felt by the young men in the school for some organization, the principal aim of which should be to promote efficiency in the art of clear and forceful expression before an audience.

THE TRIBUNAL

Organized at the beginning of last year, this society affords a second men's debating club similar in its purposes and in its membership to the older society now known as the Forum.

THE SENATE

The Senate is a girls' debating club, organized to develop an interest in questions of public welfare through formal debate. Next year the club expects to undertake intercollegiate debating. Membership is limited to twenty-five, the sole requirement being scholastic standing.

THE ACADEMY

The Academy is a girls' debating club, organized at the beginning of the present school year, and similar in nature and purpose to the older Senate.

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 classroom.

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 acquaintance with many matters of supplementary interest, for which time cannot be found in the classroom, such as public and private institutions of the Greeks and Romans, their religion, art, theatre, the topography and monuments of Athens and Rome, etc. The programs, given by both instructors and students, consist of games, illustrated talks on subjects varying in the different years, the giving of simple plays, etc.

RURAL SOCIOLOGY SEMINAR

Students in the Department of Rural Education, and other students who may so elect, meet on alternate weeks 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.

YOUNG MEN’S CHRISTIAN ASSOCIATION

The Young Men’s Christian Association of the Western State Normal School was organized in 1916. During the past year it has manifested a very healthy growth which augurs well for its success during the coming year. It already ranks as one of the real factors of power at the Normal School. Meetings are held weekly.

Committees of the Association look after new men students upon their arrival at the beginning of each term. Authorized representatives of the Association may be recognized by special badges. These representatives may be trusted implicitly as to information, advice, and direction. New students unfamiliar with Kalamazoo and the Western State Normal who write to the President of the Normal Y. M. C. A., care of the Normal, will be met at the depots at which they arrive, if they will specify the time of their expected arrival. Letters should reach Kalamazoo a week before the opening of each new term.
STUDENT ORGANIZATION

YOUNG WOMEN'S CHRISTIAN ASSOCIATION

The Normal has a Christian Association for the young women of the school, and through the past year Bible-study classes, conducted by a capable instructor, have constituted an important part of the work. Regular weekly meetings are held, and the members of the association aim to be of practical help to new students.

KAPPA RHO SIGMA

Each year a number of students who show marked excellence in the fields of science and mathematics are elected by the faculties of those departments to membership in an honorary society known as Kappa Rho Sigma.

OTHER ORGANIZATIONS

In addition to the organizations already listed, there exist a number of clubs representing different interests among the student body. Among them are the Newman Club (Catholic students), the Early Elementary Club, the Later Elementary Association, the Science Club, the Manual Arts Club, the Household Arts Club, the Commerce Club, the Eastern Star Club, the Square and Compasses Club (Masonic), the Oteyokwa Club (Upper Peninsula students), the Twin City Club (Students from Saint Joseph and Benton Harbor), the Ottawa Club (students from Ottawa County), and the Ionia County Club.

STUDENT COUNCIL

The student body of this institution is organized as The Student Association of Western State Normal. Its executive body is the Student Council, whose officers are those of the Association, and whose other members are the class presidents, class representatives, and representatives of the major student activities. The Council, with the Faculty Advisory Board, has cognizance of the extra-curricular activities of the Association through the Point System, the Charter System, and the Financial System, which are described in detail in the handbook published annually by the Council. It is one of the aims of the Student Council to develop a more universal realization of civic responsibility among the members of the Association. The personnel of the Council of 1923-23 serves to indicate also its composition:

President............................................Charles Starring
Vice President.........................................Thelma Vogt
Secretary...............................................Gertrude Cooley
Treasurer...............................................Hal Crane
SUPERVISION OF STUDENT LIFE

The social and moral life of women students is under direct supervision of the Dean of Women. She wishes to be of real service to the young women in planning their courses of study, securing remunerative positions, etc. They are requested to report all classes of illness to her and should consult her freely on all topics concerning their general welfare.

HEALTH

Kalamazoo, according to the records in the office of the State Health Department, is one of the healthiest cities in the country. Its splendid water supply and efficient Health Department mark it as unusual in its sanitary conditions. The great majority of the resident student body is housed in the most desirable section of the city. Realizing that with the enrollment of the student the school becomes responsible for his health as well as for his educational development, and that the efficiency of the student depends upon his condition of health, a committee on student health has been created to serve as an advisory committee to the student body. Students are urged to bring all cases of physical indisposition to the attention of some member of this committee. Any case of contagious disease should be immediately reported to some member of the Health Committee or to the Dean of Women.
*HOUSING REGULATIONS FOR WOMEN

1. The school maintains an approved rooming house list on file in the office of the Dean of Women—students must secure rooms in an approved rooming house before registration.

2. Women students may not room in houses where there are men lodgers, either single or married, without permission of the Dean of Women.

3. Students are expected to stay the full term in the room first engaged, changes being made only with the approval of the Dean of Women. If a student wishes to move at the end of the term, notice must be given to the landlady fourteen days before the day on which the term ends.

4. Room rent is payable in advance, with half deductions for Christmas and spring vacations.

5. Students are expected to take care of their rooms except for general cleaning as the landlady agrees to provide.

HOUSE RULES

1. Students should not arrange for recreation or callers the first four evenings of the week, school affairs being an exception. Students are expected to observe study hours on those nights.

2. A room on the first floor properly appointed for receiving men callers should be accessible to women students. Men callers may be received on Friday, Saturday, or Sunday evenings. Callers should leave by 10:00 o'clock. Women students who arrange for recreation on Friday or Saturday evenings should be in their rooms by 11:30 o'clock.

3. A student should not expect to entertain friends or relatives over night or for meals without making arrangements previously with the matron.

4. Cases of serious or contagious illness should be immediately reported to the Dean of Women.

SCHOOL CONVENTIONS

Women students shall attend only those social events which are given under the auspices of the Normal or such as are sanctioned by Normal authority.

Women students shall attend social events outside of school only with permission of the Dean of Women. Such events should be confined to Friday or Saturday evenings.

School parties shall begin promptly at 8:00 o'clock and close at 11:00 o'clock. A list of patrons and patronesses chosen by

*Similar rules apply to men students. The Registrar should be consulted concerning board and room, etc.
the department in charge of the party shall be published in
the Herald of the week preceding the party.
Alumni are welcome to all parties. Alumni are granted per-
mission to bring guests to general student parties, slips of per-
mission being granted by the Dean of Women. These slips are
to be handed in at the door.
Students in regular attendance are granted permission to
bring guests to general student parties if occasion demands.
All parties are considered very informal. All dancers shall
avoid extreme dancing of any kind, and anything which appears
in bad taste.
Student organizations planning meetings or social events shall
consult the Dean of Women as to the time and place of meeting.
The Registrar should be consulted concerning room assign-
ments, table space in halls, etc.
Expenses

FEES

Tuition. For residents of Michigan, $5.00 for each regular term of twelve weeks and $3.00 for the Summer Term of six weeks.

For non-residents of Michigan, $10.00 for each regular term of twelve weeks and $6.00 for the Summer term of six weeks.

A fee of $3.00 ($2.50 for the Summer Term) is collected each term for the support of athletics, subscription to the school paper, and student activities.

The above rates will apply to all classes of students except students from Kalamazoo County who enroll in Rural Education courses.

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.

Graduation Fees

<table>
<thead>
<tr>
<th>Course</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited Certificate Course</td>
<td>$2.00</td>
</tr>
<tr>
<td>Life Certificate Course</td>
<td>3.00</td>
</tr>
<tr>
<td>A. B. Degree</td>
<td>3.00</td>
</tr>
<tr>
<td>Extension Course</td>
<td>3.00</td>
</tr>
</tbody>
</table>

Late Enrollment Fee

By Action of the State Board of Education Feb. 22, 1923, all students who enroll more than one day late shall be charged an extra fee of $1.00.

Laboratory Fees

<table>
<thead>
<tr>
<th>Course</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART Handwork 104</td>
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</tr>
<tr>
<td>ART Handwork 105</td>
<td>2.00</td>
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<tr>
<td>BIOLOGY</td>
<td></td>
</tr>
<tr>
<td>Physiology 117</td>
<td>.50</td>
</tr>
<tr>
<td>General Biology 101</td>
<td>.50</td>
</tr>
<tr>
<td>Zoology 102</td>
<td>.50</td>
</tr>
<tr>
<td>Anatomy 115 and 116</td>
<td>.50</td>
</tr>
<tr>
<td>Nature Study 111</td>
<td>.50</td>
</tr>
<tr>
<td>Agriculture 123</td>
<td>.50</td>
</tr>
<tr>
<td>Botany 103</td>
<td>.50</td>
</tr>
<tr>
<td>CHEMISTRY</td>
<td></td>
</tr>
<tr>
<td>All courses carrying laboratory work</td>
<td>1.00</td>
</tr>
</tbody>
</table>
HOUSEHOLD ARTS
Rural Cookery.................................................. $1.00
Rural Clothing.................................................. 1.00
High School Cookery........................................... 1.00
High School Clothing........................................ 1.00
Cookery 101...................................................... 2.00
Clothing 102..................................................... 2.00
Clothing 103..................................................... 2.00
Clothing 104..................................................... 2.00
Clothing 106..................................................... 2.00

MANUAL ARTS
Printing 116...................................................... 2.00
Woodshop 102................................................... 2.00
Woodshop 101................................................... 3.00
Woodshop 103................................................... 3.00
Wood Turning 104.............................................. 3.00
Pattern Making 105............................................. 3.00
Machine Shop 106............................................... 3.00
Auto Shop 117................................................... 3.00
Auto Shop 118................................................... 3.00

PHYSICS
All courses carrying laboratory work....................... 1.00

BOARD AND ROOM
A list of good rooming and boarding houses can be obtained
from the Registrar in the general office or from the Dean of
Women. It is advisable for students to see the rooms before
definitely engaging them.

There are convenient rooms in the vicinity of the school suf-
ficient to house 1,500 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.

REMUNERATIVE OCCUPATION
Kalamazoo offers many 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, including stenography, there is frequent demand
The Registrar of the school has charge of this department and
receives and attends to requests for assistance.
EXPENSES

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 more than $4,500. 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 for one year.

FANNIE BALLOU MEMORIAL FUND

This scholarship fund was founded in the Spring of 1921, in honor of the late Fannie Ballou, who was for seven years Supervisor of the second grade of the Western Normal Training School.

The fund is administered as a loan fund. Loans are awarded to persons who have demonstrated superior ability in the field of Elementary Education, especially students in the Early Elementary department. Such persons must have completed at least one year of resident work in this school.

The awarding of loans from this fund, as well as its entire administration, is in charge of a permanent committee, consisting at present of Mr. Ellsworth, Chairman; Miss Spindler, Mrs. Minnie Campbell, Miss Kern, Miss Coppens, and ex officio, the President of the institution.

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 will be asked to take out an insurance policy, or give equal collateral for the protection of the loan.

THE NORMAL CO-OPERATIVE STORE

The Co-operative Store, which began its existence at the opening of the Summer Term 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.

NORMAL LUNCHROOM

The Normal maintains a lunchroom in the basement of the Training School building where wholesome and palatable food is served at small cost. Five hundred students can be comfortably accommodated each noon. The lunchroom offers employment to twelve or more 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.
Conditions of Admission

Students may enroll at the opening of any term. In 1923-24 the opening dates will be as follows: Fall Term, September 27, 1923, (registration September 25 and 26); Winter Term, January 7, 1924; Spring Term, April 7, 1924; Summer Term, June 30, 1924. Students entering for the first time should bring their high school or other entrance credits. A blank to be had on request to the Registrar is provided for this purpose.

ENTRANCE WITHOUT EXAMINATION

High School graduates, college graduates and those who hold the state certificate or indorsed first-grade certificate, will be admitted to the two-year Life Certificate courses and the Limited Certificate course without examination.

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 course.

For admission to the A. B. course, see the detailed outline of the requirements of this course as given on page 65.

Prospective students are urged to send their high-school credits to the Registrar in advance that there may be no delay when the students present themselves for registration and enrollment. Students who have not filed copies of their high-school credits in advance must present them at the time of registration. Otherwise, they must submit to an examination before enrollment.

ENTRANCE WITH ADVANCE 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.
CONDITIONS OF ADMISSION

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 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 or Life Certificate 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 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.

ACCEPTED HIGH SCHOOLS

At a meeting of the State Board of Education held at Lansing January 23, 1903, the following policy was adopted concerning the admission of students to the normal schools of Michigan:

1. All school work below the standard of graduation from the twelfth year of a system of public schools, having not less than thirty-six weeks of school per year, of which four full years are occupied with distinctively high-school work, shall be considered preparatory to the Limited Certificate and Life Certificate courses of the normal schools of the state, and when included in normal school courses, shall be designated as preparatory with reference to the regular normal school work.

2. All students regularly graduated from the twelfth year of public school systems in which four full years are devoted to high-school work, with not less than two teachers full em-
ployed, in distinctively high-school work, and whose term is not less than thirty-six weeks, may be accepted into the regular Limited Certificate and Life Certificate courses without examination.

3. All students who have finished not less than two years of high-school work in a twelve-year course as herein outlined, may be admitted to the high-school course in the normal schools on their record, receiving credit for the work they have finished beyond the first two years of high-school work. When students have finished the preparatory work at the normal school, they shall be allowed to enter upon the regular one or two-year normal courses.

4. All students unable during the first term in their regular courses of the normal schools to maintain a fair standing, may at the discretion of the faculty in each case be dropped from the rolls of the school, reduced to high-school work or required to repeat the course not satisfactorily completed on first trial; and in all such cases shall be reported back to the high schools from which they came, with the facts in each case, to the end that the standard may be set for the high schools of the state, and that the superintendents and principals of these schools may learn what our standard of admission is and take measures to prevent their pupils from coming to the normal schools without due preparation. Should successive cases of defective preparation be found to come from particular schools, the privilege of admission without examination may, at the discretion of the faculty, be withdrawn from such schools.

5. Similar conditions for entrance may be made applicable to other than public schools from which pupils come to the normal schools when proper investigation shall have ascertained the rank or standing of such schools to be satisfactory.

LAW REQUIRES PROFESSIONAL TRAINING

A law passed by the Legislature of Michigan in 1915 provides that all beginning teachers in the public schools of Michigan must have completed not less than six weeks of professional training. Students graduating from Michigan high schools who are planning to teach may satisfy this requirement by attending the Western State Normal School and securing credits in subjects specified by the Superintendent of Public Instruction.

By an act passed by a later Legislature, to take effect September 1, 1925, the required period of professional training was extended to one year following high school graduation.

GENERAL INSTRUCTIONS FOR ENROLLMENT

1. If a person has not definitely determined upon the course he wishes to pursue, he should consult the General Advisory Committee in Room 1, Administration (Main) Building.
2. As soon as he had decided upon his course, he should secure at a table in the hall of the Administration Building necessary blanks and cards for enrollment.

3. Then he should go to the Gymnasium (Main Building). At tables will be found "Course Advisors" who will assist him in choosing the subjects in which he should be enrolled.

4. After having conferred with his advisor he should fill out all enrollment cards handed him and one Blue Class Card for each subject for which he is to be enrolled.

Caution:

(a) He should observe instructions on the back of the cards.
(b) He should not be enrolled for more than 18 term hours without having secured permission to carry more work from Extra Study Committee. During enrollment days the chairman of this Committee may be found at a table in the Gymnasium. Students securing Extra Study Slips should exchange them at once for Blue Class Cards in the office of the Registrar (Main Office—Administration Building).
(c) "Starred Courses Tickets" may be secured at special tables. They should be secured before enrollment is begun.

5. After having secured the signature of his Course Advisor, the student should take all his yellow and Blue Class Cards to a "Checker". One may be found at a table in the Gymnasium. He should leave with him all cards he has made out. The Checker will issue an official "Permission to Enter Classes Slip" without which no student will be permitted to enter classes.

Caution:
"Permission to Enter Classes" slips must be presented to each instructor in turn on the first day of recitations of each term.

6. All women must register with the Dean of Women on the opening day, and all men with the Registrar.

Students not officially registered and enrolled may in no case become members of classes, and credits will not be acknowledged and recorded except for work done in courses in which the student has been officially enrolled.

To save time at the opening of each term, students in residence the preceding term will enroll during the eighth week of the term.

Having entered upon a course of study, the student is under the guidance of the advisor for that course, and must not change his course without the consent of this advisor and the advisor
for the course he wishes to enter. After enrolling in a class, the student must not leave the class without the consent of the advisor for his course, and should notify the instructor of his withdrawal from the class.

Students taking the High School Life courses should consult the heads of the departments in which they expect to pursue their major and minor subjects.

As soon as possible after entering school, students should plan their work for the entire two years and confer with the person, or persons, in charge of their course concerning any matter relating to their work. Some courses are offered only once a year; hence care should be exercised so to formulate the schedule of studies for each term that all such subjects may be taken. A little foresight at the beginning of the first year will save possible embarrassment to students later in their course.

Students in the High School Life courses should pursue the subject in which they intend to do their practice teaching at least one term before the practice teaching begins.

Regular students may enroll with their advisors for not less than twelve hours nor more than eighteen hours of work per week, or, in other words for not less than twelve nor more than eighteen term hours of credit per term. Students who wish to carry work beyond the regular limitations must have the consent of the Extra Study Committee.

EXTRA STUDIES

No student may enroll for more than eighteen term hours of work without the permission of the Extra Study Committee. Physical Training, Penmanship and Chorus are not counted as fifth subjects.

Students must not apply for an extra study for their first term in residence, but should establish their ability to carry extra work before making application for the same.

Students may make application for an extra study in subsequent terms by securing an application blank from the Chairman of the Extra Study Committee, carefully filling out the same, securing the recommendation of two faculty members who are familiar with the student's work, and filing the application with the chairman of the committee.

All women students who make application for extra studies must have the approval of the Dean of Women.

The committee will canvass the record of the student and decide whether the request shall be granted. If the extra study is granted, the chairman of the committee will issue to the student an Extra Study Permit, which must be presented in the main office and exchanged for a class card.
CERTIFICATES

A student expecting to receive a certificate of any kind at the end of the term should notify the Registrar by the third week of that term in order that the case may be acted upon promptly by the proper authorities.

MARKING SYSTEM

The following marks are employed:

A—Excellent.
B—Good.
C—Fair.
P—Passing.
D—Conditioned*.
I—Incomplete*.
W—Withdrawn*.
E—Failure*.

*D’s and 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.
E’s and W’s can be removed only by taking again all the work involved.

The mark of A means that in a number of students so large as to exclude accidental variations this student would be found ranking among the few excellent students. Only unusual attainments in this subject shall be recognized by this grade.

The mark of B means that the student ranks among the great majority of those who are superior to the medium students in this subject.

The mark of C means that the student would be found ranking with the fifty per cent medium students of this subject.

The mark of P means that the student ranks among those who are inferior to the medium students in this subject, but whose attainments seem worthy of some recognition.

The mark of D means that the student is conditioned in this subject, perhaps through sickness or unsatisfactory work and may be given opportunity to remove the condition.

The mark of E means that the student has failed.

CREDIT

Credits applying on the A. B. degree and certificate courses may be earned in any of the subjects regularly required. Eight term hours (twenty-four weeks—one-half of a full term’s credit) is usually the maximum credit for any student during the Summer Term. Classes reciting one hour daily during the Summer Term ordinarily earn 2 term hours (six weeks of
credit), while those reciting two hours each day earn 4 term hours (twelve weeks' credit).

Courses which meet one hour a week for one regular term will be given 1 term hour of credit (3 weeks or one-fourth unit).

Courses which meet two hours a week for one regular term will be given 2 term hours of credit (6 weeks or one-half unit).

Courses which meet three hours a week for one regular term will be given 3 term hours of credit (9 weeks or three-fourths unit).

Courses which meet four hours a week for one regular term will be given 4 term hours of credit (12 weeks or one unit).

Ninety-six term hours of credit (288 weeks) are required for a Two-year Life Certificate and 192 term hours of credit (576 weeks) are required for the A. B. 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).

CLASSIFICATION

Students are classified as 1, 2, 3, or 4. Students with fewer than nine units to 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.
Certificates and Degrees

The State Board of Education through Western State Normal School grants teachers' certificates and the Bachelor's Degree as follows:

A NORMAL LIFE CERTIFICATE

Requirements:
(a) Applicant must be at least eighteen years of age.
(b) Applicant must have completed one of the advanced courses of study offered in Western State Normal School, which course shall require not less than two years of work (96 term hours of credit) in advance of the high school.

Duration and Validity:
The Normal Life Certificate shall be valid for life 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:
(a) Applicant must be at least eighteen years of age.
(b) Applicant must have completed a course of study requiring forty-two weeks of work, (56 term hours of credit) all of which is in advance of the high school.

Duration and Validity:
The Limited Certificate shall be valid in the schools of the state for three years, providing 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.

EXTENSION LIFE CERTIFICATE

(To be discontinued)

Since 1905 it has been possible to grant an Extension Life Certificate to those who satisfied certain requirements of residence work and extension courses. By unanimous action of the State Board of Education, March 1, 1922, no more registrations of this type of certificate can be taken. However, students
who enrolled for the work previous to June 20, 1922, will be allowed to complete their course for the Extension Life Certificate.

This does not mean that extension work will be discontinued. Western State Normal plans to carry on extension work both in classes and by correspondence as long as there is demand for the work. The objectives of extension work are as pertinent as ever,—to meet the needs of those who find residence work impossible, and who would otherwise be deprived of opportunity for professional growth and advancement.

Special announcements bearing on the work of the Extension Department will be mailed to those interested, if they address the Extension Director, Western State Normal School, Kalamazoo, Michigan.

BACHELOR OF ARTS DEGREE

The degree of Bachelor of Arts is conferred by Western State Normal School after the completion of the four-year course of study outlined on page 67.
WESTERN'S TRACK IS UNEXCELLED IN THE MIDDLE WEST.
The Courses of Study

The courses of study 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 courses of study sufficiently flexible to prepare teachers for both general and special school work, has made liberal provision for students to exercise individual preference in elective work. Prospective students should study carefully the courses as outlined that they may understand clearly the purpose of each course. They should choose the course best adapted to their various abilities or ambitions. When unable to come to any decision by themselves, students should consult some member of the General Advisory Committee.

LIFE CERTIFICATE COURSES

Western State Normal School offers the following advanced courses of study leading to the Normal Life Certificate. These courses are designed to prepare teachers for different grades and special kinds of public school work. Each course requires two 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 Term of six weeks. A year's work consists of twelve units (48 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.
ART COURSE
Miss Siedschlag, Miss Stevenson, Advisors.

Group I.
Introductory Psychology 101 .................. 4 term hours
Educational Psychology 102 .................. 4 " "
Principles of Teaching 101 .................. 4 " "
Teaching 101, 102 ........................... 8 " "
English Composition 101 .................. 4 " "
Mechanical Drawing 108 .................. 4 " "

Group II.
Art Education 101 .......................... 4 " "
Art Education 102 .......................... 4 " "
Handwork 105 .............................. 4 " "
Demonstration Drawing 106 .................. 4 " "
General Design 107 .......................... 4 " "
Pictorial Composition 108 .................. 4 " "
Figure Illustration 109 .................. 4 " "
Decorative Design 112 .......................... 4 " "
History and Appreciation of Art 114, 115 .. 8 " "
Art Supervision 116 .......................... 4 " "

Group III.
Units to make up the remaining 24 term hours, selected at the pleasure of the student after consultation with the advisor.

NOTE: 1. Students desiring a third year of work in art may elect it, with the consent of the advisor, from courses open to third and fourth-year students.

2. Library Methods and Penmanship are required of all students.

3. Physical Education 101, 102, 103, 104 are required of all men.
   Physical Education 101, 102, 103, 104, 105 are required of all women.

4. The department reserves the right to take creditable work from students in all art classes for purposes of exhibition.
ART AND MUSIC COURSE
Miss Siedschlag, Mr. Maybee, Advisors.

Group I.
Introductory Psychology 101 .................. 4 term hours
Educational Psychology 102 .................. 4 “ “
Principles of Teaching 101 .................. 4 “ “
Teaching 101, 102 .......................... 8 “ “
Composition 101 .......................... 4 “ “

Group II. Art.
Art Education 101 .......................... 4 “ “
Art Education 102 .......................... 4 “ “
Handwork 105 .......................... 4 “ “
General Design 107 .......................... 4 “ “
Decorative Design 112 .......................... 4 “ “
History and Appreciation of Art 114, 115 .. 8 “ “
Demonstration Drawing 106 .......................... 4 “ “
Art Supervision 116 .......................... 4 “ “

Group III. Music.
Elements of Music 101 .......................... 4 “ “
Elements of Music 102 .......................... 4 “ “
Voice Culture 103 .......................... 4 “ “
History and Appreciation of Music 113 .... 4 “ “
Harmony 109, 110, 111 .......................... 12 “ “
Methods in Primary Music 107 .......................... 4 “ “
Methods in Grammar Grades 106 .......................... 4 “ “

NOTE: 1. Students desiring a third year of work in art may elect it with the consent of the advisor from courses open to third and fourth-year residents. In this case the work in music may be chosen so as to be completed by the end of the second year.

2. Library Methods and Penmanship are required of all students.

3. Physical Education 101, 102, 103, 104, 105 are required of all women.

4. The Art Department reserves the right to take creditable work from students for purposes of exhibition.
COMMERCe COURSE

Mr. Pennell, Miss Watson, Miss Wick, Advisors.

Group I. (Required of all commerce students)

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Introductory Psychology 101</td>
<td>4</td>
</tr>
<tr>
<td>Educational Psychology 102</td>
<td>4</td>
</tr>
<tr>
<td>Principles of Teaching 101</td>
<td>4</td>
</tr>
<tr>
<td>Teaching 101, 102</td>
<td>8</td>
</tr>
<tr>
<td>Rhetoric 104</td>
<td>9</td>
</tr>
<tr>
<td>Geography 109 A. B.</td>
<td>8</td>
</tr>
<tr>
<td>Business Arithmetic 108</td>
<td>4</td>
</tr>
</tbody>
</table>

Group II. (Required)

A. Regular Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shorthand 101 A., B., C.</td>
<td>12</td>
</tr>
<tr>
<td>Typewriting 101 A., B., C.</td>
<td>6</td>
</tr>
<tr>
<td>Accounting 101 A., B., C.</td>
<td>12</td>
</tr>
<tr>
<td>Economics 101 A., B., 102</td>
<td>12</td>
</tr>
<tr>
<td>Problems of Secondary Commercial Education</td>
<td>4</td>
</tr>
</tbody>
</table>

or

B. Accounting Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 101 A., B., C., 102</td>
<td>15</td>
</tr>
<tr>
<td>Economics 101 A., B., 102</td>
<td>12</td>
</tr>
<tr>
<td>Business Law 107 A., B.</td>
<td>8</td>
</tr>
</tbody>
</table>

or

C. Stenographic Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shorthand 101 A., B., C., 102</td>
<td>16</td>
</tr>
<tr>
<td>Typewriting 101 A., B., C., 102</td>
<td>8</td>
</tr>
<tr>
<td>Business Law 107 A., B.</td>
<td>8</td>
</tr>
<tr>
<td>Letter Writing 110</td>
<td>4</td>
</tr>
</tbody>
</table>

Group III. (Elective).................................. 12 to 20

In so far as possible Group III. should be taken in consecutive courses from one department elected from the following: Commerce, Mathematics, History, English, Social Science, Modern Language, Physical Education, or Speech.
NOTE: 1. Students who prefer a combined course to prepare for teaching both shorthand and bookkeeping should choose A of Group II. Students who prefer to teach bookkeeping and related subjects should choose B of Group II, and those who prefer to teach shorthand and typewriting should choose C of Group II.

2. Library Methods and Penmanship are required of all students.

3. Physical Education 101, 102, 103, 104, are required of all men. Physical Education 101, 102, 103, 104, 105 are required of all women.
**EARLY ELEMENTARY COURSE**  
*(Kindergarten—Grades I and II)*

Miss Kern, Miss Spindler, Miss Tamin, Advisors

**Group I. (Required)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Psychology 101</td>
<td>4</td>
</tr>
<tr>
<td>Educational Psychology 102</td>
<td>4</td>
</tr>
<tr>
<td>Principles of Teaching 101</td>
<td>4</td>
</tr>
<tr>
<td>Teaching 101 102</td>
<td>8</td>
</tr>
<tr>
<td>Composition 101</td>
<td>4</td>
</tr>
<tr>
<td>Art Education 102</td>
<td>4</td>
</tr>
<tr>
<td>Teachers' Music 106</td>
<td>4</td>
</tr>
</tbody>
</table>

**Group II. (Required)**

A major in Early Elementary Education... 12

**Group III. (Elective, chosen as follows:)**

<table>
<thead>
<tr>
<th>Option</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. From the departments of English and Speech</td>
<td>12</td>
</tr>
<tr>
<td>B. From the department of History and Social Science</td>
<td>12</td>
</tr>
<tr>
<td>C. From the departments of Mathematics, Geography, Biology, Chemistry and Physics</td>
<td>12</td>
</tr>
<tr>
<td>D. At pleasure</td>
<td>16</td>
</tr>
</tbody>
</table>

**NOTE:**
1. Library Methods and Penmanship are required of all students.
2. Physical Education 101, 102, 103, 104, and 105 are required of all women.
3. Students must have had Psychology of Reading 103 before they will be assigned for practice in the first grade.
# THE COURSES OF STUDY

## LATER ELEMENTARY COURSE
(Grades III, IV, V, and VI)

Dr. Henry, Miss Seekell, Mr. Eldridge, Miss Hadley, Miss Johnson. Advisors

### Group I. (Required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Psychology 101</td>
<td>4</td>
</tr>
<tr>
<td>Educational Psychology 102</td>
<td>4</td>
</tr>
<tr>
<td>Principles of Teaching 101</td>
<td>4</td>
</tr>
<tr>
<td>Teaching 101, 102</td>
<td>8</td>
</tr>
<tr>
<td>Composition 101</td>
<td>4</td>
</tr>
<tr>
<td>Art Education 102</td>
<td>4</td>
</tr>
<tr>
<td>Teachers' Music 106</td>
<td>4</td>
</tr>
</tbody>
</table>

### Group II. (Required)

Three consecutive courses in the same department in addition to any courses elected from that department in fulfillment of the requirements of Groups I and III

<table>
<thead>
<tr>
<th>Course</th>
<th>Term Hours</th>
</tr>
</thead>
</table>

### Group III. (Electives, chosen as follows:)

<table>
<thead>
<tr>
<th>Option</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. From the departments of English and Speech</td>
<td>12</td>
</tr>
<tr>
<td>B. From the department of History and Social Science</td>
<td>12</td>
</tr>
<tr>
<td>C. From the departments of Mathematics, Geography, Biology, Chemistry and Physics</td>
<td>12</td>
</tr>
<tr>
<td>D. At pleasure</td>
<td>16</td>
</tr>
</tbody>
</table>

**NOTE:**
1. Library Methods and Penmanship are required of all students.
2. Physical Education 101, 102, 103, 104, and 105 are required of all women.
JUNIOR HIGH SCHOOL COURSE
(Grades VII, VIII, and IX)

Miss Rawlinson, Mr. Moore, Dr. Scott, Mr. Wilds, Advisors

Group I.

Introductory Psychology 101 .................. 4 term hours
Educational Psychology 102 .................. 4 " "
Principles of Teaching 101 .................. 4 " "
English Composition 101 .................. 4 " "

Group II.

One major subject, consisting of from 16 to 28 term hours including 4 term hours of teaching.
One minor subject, consisting of 16 term hours including 4 term hours of teaching.
Two subjects (other than the major and minor) consisting of 12 term hours each.
The remaining units are to be taken in groups of three or miscellaneous with the consent of the advisor.

NOTE: 1. Library Methods and Penmanship are required of all students.
2. Physical Education 101, 102, 103, 104 are required of all men.
   Physical Education 101, 102, 103, 104, 105 are required of all women.
3. Students who are preparing to teach in the high schools of rural agricultural, consolidated, and village schools are referred to high school course presented on page 63.
THE COURSES OF STUDY

SENIOR HIGH SCHOOL COURSE
(Grades X, XI, and XII)

Mr. Fox, Miss Zimmerman, Mr. Ackley, Miss Cooley, Advisors

Group 1.

Introductory Psychology 101 .................. 4 term hours
Educational Psychology 102 ................. 4 " "
Principles of Teaching 101 ................. 4 " "
English Composition 101 .................. 4 " "

Group II.

A major of 28 term hours including 4 term hours of teaching.
A minor of 16 to 28 term hours including 4 term hours of teaching.

In as far as possible the remaining work should be taken in consecutive courses of 12 term hours each, one of which must be in a subject not chosen as a major or minor.

NOTE: 1. Library Methods and Penmanship are required of all students.

2. Physical Education 101, 102, 103, 104 are required of all men.
   Physical Education 101, 102, 103, 104, 105 are required of all women.

3. Students who are looking forward to teaching in the high school are urged to plan to take the four-year course (page 65). By so doing they will be able to secure better positions and better salaries.

4. Students who are preparing to teach in the high schools of rural agricultural, consolidated, and village schools are referred to high school course presented on page 63.
HOUSEHOLD ARTS COURSE
Miss Blair, Miss Moore, Advisors

Group I.

Introductory Psychology 101 .................. 4 term hours
Educational Psychology 102 .................. 4 " "
Principles of Teaching 101 .................. 4 " "
English Composition 101 .................. 4 " "
Chemistry 102 A, B, 103 .................. 12 " "
Physiology 117 .......................... 4 " "
Household Arts Design 113 .................. 4 " "
Teaching 101-102 .......................... 8 " "

Group II.

A. Textiles and Clothing .................. 24 " "
   Foods and Cookery .................. 12 " "

or

B. Textiles and Clothing .................. 12 " "
   Foods and Cookery .................. 24 " "

Group III.

A. Literature .......................... 4 " "
   History .......................... 4 " "
   Mathematics or Geography .......................... 4 " "

B. The remaining units at the pleasure of the student.

NOTE: 1. Library Methods and Penmanship are required of all students.

2. Physical Education 101, 102, 103, 104, 105 are required of all women.
LIMITED CERTIFICATE COURSE

Dr. Burnham, Miss Evans, Advisors

The Limited Certificate Course requires a year and a Summer term of work beyond the four-year high school, and leads to a Limited Certificate described on page —?

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

Group I.

Introductory Psychology 101 .. 4 term hours
Principles of Teaching 101 .. 4 " "
Art Education 103 .. 4 " "
Teachers’ Music 106 .. 4 " "
Composition 101 .. 4 " "
Sociology 103 .. 4 " "

Group II.

Elect seven units from the following courses, or four units from this group, and three consecutive units in one subject with a particular Life Certificate in view.

Literature for Children 103 .. 4 term hours
Story-Telling 104 .. 4 " "
American History 101, 102 or 103 .. 4 to 12 " "
Principles of Geography 101A, 101B .. 4 to 8 " "
Arithmetic 101 .. 4 " "
Hygiene 118 .. 4 " "
Curriculum 101 .. 4 " "
Household Arts 114 or Shopwork 101 .. 4 " "
Nature Study 111 .. 4 " "
Club Leadership 124 .. 4 " "
*Agriculture 123A, 123B .. 4 to 8 " "

*Agriculture is a year’s work in the eighth grade in the new 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 enroller.

NOTE: 1. Library Methods and Penmanship are required of all students in the Limited Course.

2. Physical Education 101 and 102 are required of all students in this course.
MANUAL ARTS COURSE

Mr. Sherwood, Mr. Weaver, Mr. Huff, Advisors

Group I.

Introductory Psychology 101.................. 4 term hours
Principles of Teaching 101...................... 4 “ “
Teaching 101, 102............................. 8 “ “
Composition .................................... 4 “ “
Applied Mathematics 112...................... 4 “ “
Mechanical Drawing 108B, 108C............... 8 “ “
Structural Design 111.......................... 4 “ “
Woodshop 102.................................. 4 “ “
Electricity 100C................................. 4 “ “

Group II.

A major elected in the Department of Manual Arts. (Shop and drawing courses not included in Group I)........ 24 “ “

Group III.

A. Three consecutive units elected in Sociology, Geography, Mathematics, Physics, Chemistry, Biology, English, History, Government, Education, Psychology, or foreign languages.......... 12 “ “

B. Four units elected with the consent of the advisor ........................................ 16 “ “

NOTE: 1. Sixteen special departmental units (4 term hours each) are allowed toward the degree of Bachelor of Arts. If the student is wise in his elections he can complete the requirements of the Manual Arts course and also gain two full years of credit toward his degree of Bachelor of Arts.

2. Students who enter with less than one year of satisfactory credit in Physics must elect Physics 100. The student who elects a year of College Physics (Group 3A or B) may substitute another subject for Electricity 100C in Group I.

3. Those who elect a year of either College Physics of Mathematics (Group 3A or B) may substitute another subject for Shop Mathematics 112 in Group I.
4. Woodshop 101A and Mechanical Drawing 108A are required of all students who have not had satisfactory previous preparation in these subjects. These courses will then be counted under Group III B.

5. Special arrangements will be made for those wishing to prepare for teaching Physical Education, Agriculture, Science, Mathematics, etc., in combination with Manual Arts subjects, e.g.,—a Manual Arts student wishing to prepare to teach some work in Physical Education should elect Physical Education courses 101, 102, and 103 the first year, preferably at 11:00 o'clock. Physical Education 121, 122, and 123 should be elected in the second year. Courses 118, 128, 113, 119, 109, 115 and 120 should also be elected, and may be taken in Summer Terms. This totals 16 term hours.

6. Woodshop 101A, Household Mechanics 145, and Carpentry 140 make up a one-year course suitable as a minor in the Rural Education and other courses.

7. Library Methods and Penmanship are required of all students.

8. Physical Education 101, 102, 103, and 104 are required of all men.
MUSIC COURSE

Mr. Maybee, Mr. Henderson, Mrs. Hilliard, Advisors

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elements of Music (101)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Harmony (109)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Composition (101)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>History of Music (112)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Physical Education (101)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Winter Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elements of Music (102)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Harmony (110)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Introductory Psychology (101)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>History and Appreciation (113)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Physical Education (102)</td>
<td></td>
</tr>
<tr>
<td><strong>Spring Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Methods: Primary Grades (107)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Harmony (111)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Principles of Teaching (101)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Voice Culture (103)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Physical Education (103)</td>
<td></td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Musical Composition (114)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Educational Psychology (102)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Teaching (101)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Methods: Grammar Grades (106)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Voice Culture (104)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Physical Education (104)</td>
<td></td>
</tr>
<tr>
<td><strong>Winter Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced Voice Culture</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Teaching (102)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>*Musical Composition (126)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Physical Education (105)</td>
<td></td>
</tr>
<tr>
<td><strong>Spring Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>High School Conducting (115)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>*Musical Analysis (127)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>8</td>
</tr>
</tbody>
</table>

Chorus and Glee Club or Orchestra are required of all in the Music Course. Voice culture is to be taken two terms for 4 term hours’ credit.

**NOTE:**
1. Library Methods and Penmanship are required of all students.
2. Physical Education 101, 102, 103, 104 are required of all men.
   Physical Education 101, 102, 103, 104, 105 are required of all women.

*Or elective.
THE COURSES OF STUDY

RURAL EDUCATION COURSES

Dr. Burnham, Miss Evans, Advisors

Elementary Schools.

Group I.

Introductory Psychology 101 .................. 4 term hours
Educational Psychology 102 .................. 4 " "
Principles of Teaching 102 .................. 4 " "
Teaching 101, 102 .......................... 8 " "
Composition 101 .......................... 4 " "
Art Education 103 .......................... 4 " "
Teachers' Music 106 .......................... 4 " "

Group II.

A major elected in Rural Education.. 12 to 24 " "

Group III.

A. Literature and Speech .......................... 12 " "
B. History and Sociology .......................... 12 " "
C. Science and Mathematics .......................... 12 " "

The foregoing is suggested for teachers of rural elementary schools. Students who desire to do junior high or senior high school work in rural agricultural, consolidated and village schools are advised to take the following course. These students should advance through the A. B. course at the earliest opportunity.

High Schools

Group I.

Introductory Psychology 101 .................. 4 term hours
Educational Psychology 102 .................. 4 " "
Principles of Teaching 102 .................. 4 " "
English Composition 101 .................. 4 " "

Group II.

A minor in Rural Education .................. 12 " "

Group III.

A major of 28 term hours in some subject as advised by the enroller including 4 term hours of practice teaching in the major subject.

Three minor subjects of 12 term hours each with 4 term hours of practice teaching added to one of these minor subjects.
Major and minor subjects are available in science, mathematics, literature, history, and social sciences, and in agriculture, home economics, and manual arts.

NOTE. 1. Students who are preparing to teach in larger high schools are referred to pages 55 and 65 in this year book.

2. Library Methods and Penmanship are required of all students.

3. Physical Education 101, 102, 103, 104, 105 are required of all men.

   Physical Education 101, 102, 103, 104 are required of all women.
THE COURSES OF STUDY

BACHELOR OF ARTS COURSE

Mr. Sprau, Advisor.

At its regular meeting, March 29, 1918, the State Board of Education authorized the normal schools of the state to formulate a four-year course of study leading to the Bachelor’s degree. The following is an exact copy of the course of study drafted by the Normal Executive Council and adopted by the State Board of Education at its regular meeting, June 30, 1918. The course is the same for all of the Normal Schools of Michigan, and in all cases leads to a Life Certificate and the degree of Bachelor of Arts.

The four-year course will in no way interfere with the two-year Life Certificate courses already in force in the Western State Normal School, and graduates in any of these courses may in all cases count their work done for a certificate as part credit toward the degree. However, the entrance requirements for the four-year course are more rigidly prescribed than for the Life Certificate courses, and candidates for the degrees must satisfy these entrance requirements.

The four-year course is now a part of the work at Western Normal, and students may enter the institution to begin or continue their work for the degree at the beginning of any regular term.

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 examination or by certificate. 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 of the school.

Subjects Required

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3 units</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2 units</td>
</tr>
<tr>
<td>Mathematics (Algebra or Geometry)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Science</td>
<td>1 unit</td>
</tr>
<tr>
<td>History</td>
<td>1 unit</td>
</tr>
</tbody>
</table>

Subjects Accepted for Admission

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3 or 4 units</td>
</tr>
<tr>
<td>Greek</td>
<td>2 or 3 units</td>
</tr>
<tr>
<td>Latin</td>
<td>2, 3 or 4 units</td>
</tr>
<tr>
<td>French</td>
<td>2, 3 or 4 units</td>
</tr>
<tr>
<td>Spanish</td>
<td>2, 3 or 4 units</td>
</tr>
<tr>
<td>History</td>
<td>1, 2 or 3 units</td>
</tr>
<tr>
<td>Algebra</td>
<td>1, 1½ or 2 units</td>
</tr>
<tr>
<td>Geometry</td>
<td>1 or 1½ units</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>½ unit</td>
</tr>
<tr>
<td>Physics</td>
<td>1 unit</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1 unit</td>
</tr>
<tr>
<td>Physiology</td>
<td>½ unit</td>
</tr>
<tr>
<td>Geology</td>
<td>½ unit</td>
</tr>
<tr>
<td>Botany</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Zoology</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Physiography</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Elementary Economics</td>
<td>½ unit</td>
</tr>
<tr>
<td>Agriculture</td>
<td>1 or 2 units</td>
</tr>
<tr>
<td>Household Arts</td>
<td>1 or 2 units</td>
</tr>
<tr>
<td>Drawing</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Manual Arts</td>
<td>1 or 2 units</td>
</tr>
<tr>
<td>Commercial Branches</td>
<td>1 or 2 units</td>
</tr>
<tr>
<td>General Science</td>
<td>½ unit</td>
</tr>
</tbody>
</table>

Requirement 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 course of study 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 unit of work represents a course of instruction in a single subject, continuing for twelve weeks and having four class-hours per week. Two hours of laboratory work will count as one class-hour.
The requirement for graduation with this degree is forty-eight units distributed as follows:

**Group I** ..................................................3 units
English Composition and Rhetoric

**Group II** ..................................................5 units
History, Economics, Sociology, Philosophy

**Group III** ..................................................6 units
Biology, Chemistry, Geography, Physics, Mathematics, Astronomy, Geology

**Group IV** ..................................................6 units
Ancient Languages, Modern Languages, English Language and Literature

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 courses are fully satisfied.
2. Not more than sixteen units may be taken in any one department.
3. Courses counted in Group I cannot be counted in Group IV.
4. Not more than a total of sixteen units may be counted from the following departments: Music, Art, Household Arts, 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 and who has not been in residence during the regular term next preceding the time of his graduation.
THE EXTENSION DEPARTMENT

Many schools and colleges are now offering opportunities for non-residence study (*in absentia*). The conditions under which this type of study is offered by Western State Normal are given below. The directions of the work of students not in residence has been entrusted to the Extension Department.

Extension Courses are open to

a. High school graduates, with or without experience, who wish to earn credits to apply on life certificates or on the A. B. degree.

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. To this class belong persons engaged in teaching who, lacking high school graduation or teaching requirements for admission, enroll in these classes with a view to removing such deficiencies.

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 identically 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 the degree of A. B.

Extension courses are designed to fill the needs of those whose circumstances do not permit of attendance at the Normal School. Those who wish to progress in spite of unfortunate circumstances will find in extension work a means to their desired end.

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 ¼ the required number of courses for the two-year Life Certificate and for the A. B. Degree may be earned by extension.

2. A maximum of four courses may be earned by extension by graduates of County Normal Schools.

3. No extension courses can be applied toward the requirements for the Limited Certificate.

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 people who do not find answers to their questions here are requested to communicate with the Extension Director, Western State Normal School, Kalamazoo, Michigan.
Details of Departments

ART

*MRS. KERR
MISS STEVENSON

MISS SIEDSCHLAG
MISS WELLING

101. Art Education. Required of Art Students only. A course in observing the art activities in the training school, and discussing and illustrating these problems from both educational and technical standpoints. Control of public school art mediums is gained through the use of pencil, crayons, and water colors. Four term hours.

MISS WELLING

102. Art Education. This course aims to prepare the student to direct art activities in the elementary grades, and to understand aesthetic principles as applied to the home, school, clothing, and leisure as influencing the child through environment. Color, design, and lettering are followed by drawing in line and tone; memory and imaginative drawing taking precedence over representative. Required of all students in Early Elementary, Later Elementary, Limited, and Art courses. Four term hours.

MISS STEVENSON

103. Art Education. A course similar to Art Education 102, but planned more specifically to meet the needs of the rural school. Water color, crayon, pencil and blackboard drawing, handwork including weaving, clay modeling, and sand table are featured. House furnishing and costume design form a part of the work. Four term hours. Spring Term.

MISS STEVENSON

104. Handwork. Elementary problems which include materials such as clay, paper, cardboard, roving and pine needles. This course is open to students without previous art work and all students preparing to teach in the grades are urged to take it. Four term hours. Fall, Winter, Spring, and Summer terms.

MISS STEVENSON

*Names are printed in order of seniority.
†Resigned, July 1, 1923.
105. **Handwork.** Advanced problems in pottery and the use of the kiln taught by actual firing for the biscuit and for the glazing. Rug making, basketry and bookbinding, also a study of the industries will be included. Prerequisite, course 104. Four term hours. Spring and Summer terms.

**MISS STEVENSON**

106. **Demonstration Drawing.** This course gives the student practice in rapid drawing on a large illustrative scale on the blackboard with white and colored chalks and on large paper in line and color. Subjects allied to school life and special holidays give subject matter to the drawing. Literature, history, geography and nature study are used to stimulate representative and imaginative drawing. School room decoration is discussed. Open to all who have had art 102. Two or four term hours. Winter Term.

107. **General Design.** This course provides the foundation for decorative design. A series of problems is given to teach the fundamental principles underlying line, mass and color. Open to students who have taken art 102. Four term hours. Spring Term.

**MISS STEVENSON.**

108. **Pictorial Composition.** A study of the fundamentals of pictorial design based on related areas of dark and light, values and color. The landscape and nature subjects will be interpreted in ink, chalks, crayon, and water color, both transparent and opaque. Holiday posters and greetings will be featured. Two or four term hours. Fall Term.

109. **Figure Illustration.** The purpose of this course is to stimulate the imaginative, rather than to cause the student to make literal copies of the posing model. The figure is the stimulus for compositions involving an expression of the mood which it suggests. A wide choice of mediums develops freedom of individual style. Four term hours.

110. **Manual Arts Drawing.** A course designed to enable the Manual Arts student to express three dimensional form on paper through the study of perspective and its application. Representative drawing from real objects, furniture and buildings is supplemented by practice in drawing objects so as to give the student ability to give graphic expression to a problem. Color study is featured and mediums such as crayon, pencil, ink, and water colors are used. Four term hours. Fall and Winter terms.

111. **Manual Arts Design.** This course includes a study of design and its application to materials such as wood, metal, clay and cement. Period furniture in its relation to modern
needs will be studied. The relation between manual arts and the school curriculum will form a basis for the discussion of industrial arts. Some decorative design will be applied to toys, objects for the home, etc. Four term hours. Winter and Spring terms.

MISS STEVENSON

112. Decorative Design. A continuation of General Design, many of the designs to be applied to materials. Much emphasis is placed on original work. Four term hours. Fall Term.

MISS STEVENSON

113. Household Arts Design. 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, wash and color. Decorative design for costume will be planned and executed. The last six weeks will be devoted to house furnishing. Color, design, arrangement, choice, and selection of furnishings will be supplemented by collections of illustrative material and visits to decorators' and furniture shops. Four term hours. Fall Term.

114. History of Art. This course includes a study of art throughout the ages, stressing primitive, Chaldean, Egyptian, Assyrian, Indian, Chinese, Japanese, Greek and Roman work in architecture, painting and sculpture. Compilations of notes and illustrative material supplement the class room discussions. Four term hours. Winter Term.

115. History of Art. A continuation of Art 114. A study of European art during the middle ages and Renaissance, and modern art, in painting, architecture and sculpture. Contemporary art is strongly featured. Two or four term hours.

116. Art Supervision. A study of the school curriculum and its needs in art activities. Courses of study will be outlined and administrative problems discussed. Collections of illustrative material will be catalogued. Four term hours. Spring Term.

117. Commercial Art. A course in lettering and application to advertising material such as posters, street car cards, book covers, etc. Ink work with the various lettering pens will be included. Open to all students who have had Teachers' Art 102. Four term hours. Spring and Summer terms.

MISS STEVENSON

118. Bookbinding. An advanced course in the structure and decorative design of book-making. For third and fourth-year students. Four term hours.

MISS STEVENSON
119. **Modeling.** A course aimed to give advanced students a term of practice with plastic mediums such as clay and plast-icine; working out pottery, bas-reliefs, decorative and animal figures, etc. For third and fourth-year students. Four term hours.

MISS STEVENSON.

120. **Interpretative Needlework and Textile Design.** A course in textile decoration involving embroidery, dyeing, wood-block, and stenciling from creative designs. The use of decorative textiles for home, school, stage, etc., is discussed. For third and fourth-year students. Four term hours.

MISS STEVENSON

121. **Color.** A course in the appreciation and use of color from many angles, including light, pigment, and aesthetic reaction. The applications being so varied, the students is urged to apply his color knowledge to one of the following fields:—posters, interior decoration, landscape design, crafts, etc. For third and fourth-year students. Four term hours.

MISS STEVENSON

122. **Portrait and Figure.** A technical course to develop skill in draughtsmanship from the costumed figure. For third and fourth-year students. Four term hours.

MISS STEVENSON

123. **Advanced Figure Illustration.** A course combining the technical skill of Course 122, and the imaginative angle gained from Course 108. Oils and water color are stressed.

MISS STEVENSON

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**BIOLOGY**

*MISS HADLEY

**MR. PLACE**

MISS COOLEY

101. **General Biology.** This course aims to present the fundamental biological principles and to serve as a foundation for subsequent biological study. Principles are illustrated by selected plant and animal types. The course consists of lectures and laboratory work. Open to all students. Those taking but one year in Biology should elect this course. Major students should elect in first year. Offered each year. Twelve term hours.

102 A, B, C. **Zoology.** A general consideration of the structure, physiology, evolution, and environment relations of animals. Representative types of each phylum of the animal king-
dom are studied in the laboratory; lectures and field work complete the course. Open to second-year and third-year students. Twelve term hours.

108. General Botany. A broad survey of the systematic, morphological, physiological, ecological, and economic aspects of the plant world. Open to second-year and third-year students. Laboratory and field work. Twelve term hours.

110. Fundamentals of Biology. This course is introductory and is planned to present the great fundamental truths of biology to the end that the student may acquire the biological point of view which is an essential desideratum in modern educational, sociological, and ethical considerations. An effort will be made to develop in the student the scientific attitude of mind. Evolution, heredity, and eugenics receive special treatment. Offered each term. Four term hours.

111. Nature Study. The purpose of this course is to present the ideals and methods of nature-study, to arouse in the student the inquiring attitude toward natural phenomena and the original solution of the problems that develop, to acquaint the student with available materials for each of the four seasons, and to give him a grasp of the literature of the subject. The nature-study classes have the benefit of the school agricultural gardens. Field and laboratory work are devoted to identification and ecology of our common plant and animal forms, with special stress on trees, birds, flowers, insects. Four term hours. Fall, Spring, and Summer terms.

MISS HADLEY

112. Hygiene of the School Child. A course for teachers dealing primarily with such problems as malnutrition in school children, factors influencing growth, physiological differences between children and adults, schoolroom ventilation. Personal hygiene and prevention of contagious diseases will not be lost sight of. Terman's The Hygiene of the School Child, will form the basis of the course. Two term hours. Summer Term.

MR. PLACE


115. Anatomy. This course aims to give the student a clear and definite knowledge of the structure of the human mechanism. Lectures and textbooks are supplemented by a complete mammalian dissection. Four term hours. Fall term.

116. Anatomy. A continuation of course 115, which is a prerequisite. Four term hours. Winter Term.
117. Physiology and Hygiene. This is an advanced course intended especially for those who have completed the two terms in anatomy, though open to any who have had a high school course in physiology. Required in Physical Education courses. Four term hours. Spring Term.

118. Hygiene. The factors of both personal and social hygiene are considered, with especial emphasis on the causes of ill-health and disease, and their control and prevention. Four term hours. Fall, Winter and Spring terms.

119. Field Biology. Arranged to meet the demands of any who may desire special work along this line. Such a course will embrace the detailed study, under direction, of some habitat or region, or of some group of plants or animals. Collections and reports are required. The credit is determined by work done.

120. Organic Evolution. The main purpose of this course is to present to the general student a comprehensive introduction to our present-day knowledge of the factors and phenomena of organic evolution to the end that he may acquire a philosophy of nature and a recognition of man's place in nature as a basis of thought and action. Specially planned for third-year and fourth-year students. No prerequisite required. Four term hours. Fall Term.

121. Heredity. This course is devoted to a more detailed study of the factors of evolution, which were only briefly treated in course 120, with special emphasis upon variation and heredity. The attempt is to give the student a grasp not only of the principles involved, but of the problems and the methods of investigation. Specially planned for third-year and fourth-year students. Biology 120 is a desirable prerequisite. Four term hours. Winter Term.

122. Bio-Sociology. Courses 120 and 121 naturally lead to the content of this course. A study is made of those fundamental biological doctrines which are essential to an understanding of the social organism as a biological product. The biological laws determinative of the origin and evolution of society are especially emphasized and a natural basis for ethics and religion is developed. An outline for a rational control of the future evolution of society completes the course. Specially planned for third-year and fourth-year students. Four term hours. Spring Term.

123. Agriculture. The aim of this course is to give the student an intelligent and sympathetic conception of the problems of agricultural life, and a reasonable mastery of the subject-matter usually considered in elementary courses in agri-
culture; so that he may be able to each the subject as required in the public schools of the state, and also to direct and supervise such school organizations and activities as may be founded upon a knowledge of agriculture or in some way related to it. When it is at all possible, students are urged to take the entire year's work, but the work of each term separately may be pursued with profit.

A. Soils. A study of soil properties, fertilizers, and manures. Methods of maintaining soil fertility. Four term hours. Fall Term.


C. Crop Production. Principles of plant growth as applied in crop production. Methods of production, diseases, and economic uses of the more important farm crops. Special emphasis on Michigan crops. Four term hours. Spring Term.

MISS COOLEY

124. Club Leadership. This course acquaints the student with the problems and methods of boys' and girls' clubwork. The satisfactory completion of this course should enable the teacher to carry on intelligently the clubwork now being extensively organized under the direction of Federal, State and County Leaders. Summer Term. Four term hours.

MISS HADLEY

125. Nature Study. This course prepares students to teach nature study in the seventh and eighth grades. Common rocks and minerals, stars and our solar system, magnetic and electric toys; heat, light, and sanitation are studied. Four term hours. Winter Term.

MISS HADLEY


MISS HADLEY

CHEMISTRY

DR. McCracken

101. General Chemistry. Open only to students who have had a year of high school chemistry, and required of all those majoring in the subject. Laboratory work is required. Twelve term hours. Fall, Winter, and Spring terms.

MR. Eldridge

DR. McCracken.
101A. General Chemistry. Similar to 101 but intended for students who have had no high school chemistry. The textbook used is not so advanced. Laboratory work required. Twelve term hours. Fall, Winter and Spring terms.

MR. ELDRIDGE.

102. A, B. General Chemistry. Required of all students in the Household Arts course who have had no chemistry. No other students admitted. Eight term hours. Fall and Winter terms.

MR. ELDRIDGE.

103. Household Chemistry. This course is for students in the Household Arts course only. Prerequisite, an elementary course in general chemistry. Students who have had no chemistry will take 102, and then enter this course. Required in Household Arts Life Certificate course. Four term hours.

MR. ELDRIDGE.

104. Qualitative Analysis. Tests for metals. Lectures and laboratory work. Required of students majoring in chemistry. May be elected by others. Course 101 or 101A is prerequisite to this course. Four term hours. Fall Term.

DR. McCracken.

105. Qualitative Analysis. Tests for acid radicals and analysis of unknowns. Requirements same as for 104. Winter Term. Four term hours.

MR. ELDRIDGE.

106. Advanced Qualitative Analysis. Analysis of alloys, minerals, water, etc. Elective. Prerequisite, courses 104, 105. Spring Term. Four term hours.

DR. McCracken.

MR. ELDRIDGE.

107. Gravimetric Analysis. Lectures and laboratory work. Required of students majoring in chemistry. Prerequisite, courses 101 or 101A, 104, 105. May be elected by those prepared to take it. Spring Term. Four term hours.

DR. McCracken.

MR. ELDRIDGE.


DR. McCracken.

MR. ELDRIDGE.


DR. McCracken

MR. ELDRIDGE.
110. **Organic Chemistry.** Lectures and laboratory work. Prerequisite, courses 101, or 101A, 104, 107, 108. Twelve term hours. Fall, Winter and Spring terms. 

**MR. ELDRIDGE.**

111. **Inorganic Preparations.** A course in the preparation of inorganic compounds. Requirements the same as for 110. Elective. Four term hours. Spring Term. 

**DR. McCracken**

**MR. ELDRIDGE.**

112. (a) **History of Chemistry.** Six weeks will be devoted to a study of the development of chemistry as a science. 
(b) **Chemical Manipulation and Laboratory Technique.** Six weeks will be devoted to the practical side of the teaching of the subject. Must be preceded by courses 101, or 101A, 104, 105, and 107. Four term hours. 

**DR. McCracken.**

113. **Organic Preparations.** Aliphatic. Four term hours. 

**MR. ELDRIDGE.**

114. **Organic Preparations.** Aromatic. Four term hours. 

**MR. ELDRIDGE.**

115. **Physical Chemistry.** Laboratory course. Four term hours. 

**DR. McCracken.**

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**COMMERCE**

**MISS WICK**

**MR. PENNELL**

**MISS WATSON**

101. **Accounting.**

A. **Elements of Accounting.** The theory of debit and credit, the organization of basic accounting records, and the construction and interpretation of balance sheets and profit and loss statements. Three two-hour recitations a week. Four term hours. Fall and Winter terms. 

**MR. PENNELL.**

B. **Principles of Accounting.** A continuation of course 101A. A further development of the fundamental principles through a study of text matter and class discussion of numerous short related problems. Through laboratory material and operation of the columnar books, control accounts, modern methods of recording cash receipts and disbursements, purchases and sales is illustrated. Drill in partnership and corporation adjustments and liquidation, and the preparation of financial state-
ments involving intricate adjustments of accounts. Three two-hour recitations a week. Four term hours. Fall and Winter terms.

MR. PENNELL.

C. Principles of Accounting. A continuation of course 101B. Special features of corporation accounting, financial and profit and loss statements of corporations, valuation of special assets and liabilities, factors of depreciation, methods of calculating depreciation charges and reserves, the elements of corporate proprietorship, distribution of proprietorship gains, the nature of reserves and funds, the interest problem in accounting, the elements of industrial cost accounting, and the elements of income and excess profits tax accounting. Three two-hour recitations a week. Four term hours. Winter and Spring terms.

Accounting 101A, B, and C are planned to make a continuous year's work in the elements and principles of accounting. Paton & Stevenson's *Principles of Accounting* and *Problems and Exercises in Accounting* are used as basic texts in these three courses.

MR. PENNELL.

102. Accounting.

A. Accounting Theory. Capital stock, sinking funds, surplus and reserves, combinations and consolidations, particular problems in liquidations and business statistics. Prerequisite, courses 101A, B, and C. Three term hours. Spring Term.

MR. PENNELL.

B. Cost Accounting. The literature on the subject, practical problems, and laboratory set. Elected by special permission. Prerequisite, course 102A. Four term hours.

MR. PENNELL.

C. Auditing. The course is designed only for those showing aptitude in accounting. It is confined to a study of public accounting and auditing. Assignments are made from authorities, and practical problems chosen from state C. P. A. examinations are used as illustrative material. Elected by special permission. Prerequisite, course 102B. Four term hours.

MR. PENNELL.


A. An effort is made in this and the following course to present the widest range of business law that can be adequately covered in twenty-four weeks. The following subjects are studied: Persons, torts, contracts, principal and agent, and private property. Four term hours. Winter Term. Not open to first-year students.

MR. PENNELL.
B. A continuation of course 107A. The object of this course is to show how the law affects the business man's relation to his market, and to indicate the relation of the law to the administration of the business man's finances. The following subjects are studied: Market transactions, market practices, legal devices for securing money and credit, powers of creditors, and privileges of debtors. Spencer's *Law and Business*, supplemented by reading from the Michigan statutes, is used as a basic text. Four term hours. Spring Term.

MR. PENNELL.


MR. PENNELL.

110. Office Management. Principles of office administration, location, layout, methodizing communication, control of correspondence, and other activities. McClelland's *Office Training and Standards* is used as a text. Two term hours. Spring Term.

MISS WATSON.

111. Letter Writing. 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; to develop individuality of style. Hotchkiss & Kilduff's *Advanced Business Correspondence* is used as a text. Four term hours. Spring Term.

MISS WICK.

114. Problems of Secondary Commercial Education. This course deals with some of the important contemporary problems of commercial education in secondary schools. Lyon's *Education for Business* is used as a basic text. This is supplemented by readings from bulletins issued by the U. S. Bureau of Education and the Federal Board for Vocational Education, reports of educational conventions, and current educational magazines. Considerable attention is given to the history and development of commercial education. Four term hours. Fall and Spring terms.

MR. PENNELL, MISS WICK.

101. Shorthand.*

A. Elementary. This course covers the principles of the Gregg System of shorthand up to the eleventh lesson in the Gregg Manual and Speed Studies. Four term hours' credit. Fall Term.

MISS WICK, MISS WATSON.

MISS WICK, MISS WATSON.

C. Advanced. An application and discussion of the principles of the system, dictation at a moderate speed and extensive reading of shorthand plates. Four term hours. Spring Term.

MISS WICK, MISS WATSON.

102. Shorthand.* Intensive drill on dictation and transcription, and discussion of methods of teaching shorthand. Four term hours. Fall Term.

MISS WICK.

101. Typewriting.*
A. Elementary. Two term hours. Fall and Winter terms.

MISS WATSON.

B. Intermediate. Two term hours. Winter and Spring terms.

MISS WATSON.

C. Advanced. Two term hours. Spring and Summer terms.

MISS WATSON.

102. Typewriting.* An advanced course planned to develop operating technique and for the consideration of methods of teaching. Two term hours. Spring and Summer terms.

MISS WICK.

*Any student who elects shorthand or typewriting must take three consecutive terms to secure credit, with the following exceptions:

Students who present one unit of Gregg shorthand or typewriting for entrance will not be allowed credit for 101A, and should register in 101B. Students who present two units of Gregg shorthand or typewriting for entrance will not be allowed credit for 101A nor 101, and should register in 101C. 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 course 101A or 101B for review without credit.

EARLY ELEMENTARY EDUCATION
(Kindergarten—First and Second Grades)

MISS KERN
MISS SPINDLER
MISS COPPENS

101. A, B, C. Early Childhood Education. The purpose of this course is to give the student a working knowledge of child life. It involves a study of (1) children’s mental and physical characteristics and their bearing upon education; (2) the cur-
riculum of the first three or four years of school life (kindergarten—first and second grades) based upon children’s interests and activities. Required of first-year students in the Early Elementary course. Twelve term hours. Fall, Winter, and Spring terms.

MISS KERN, MISS COPPENS.

102. A, B, C. Current Educational Problems. A conference course including a study of modern theorists and types of modern schools. Consideration will be given to the best forms for keeping records of children’s interests, together with other problems of the modern early elementary school. A one-hour course throughout the year. Not open to first year students. Four term hours.

MISS KERN.

103. The Psychology of Reading. This course deals largely with the physiological, psychological and pedagogical problems found in teaching little children to read. Emphasis is placed on the study of the modern methods now in use. Standards for judging methods and material are worked out. Students will be given opportunity to observe reading classes in the training school. Four term hours.

MISS SPINDLER.

104. Games and Rhythms. A study of the relation of play and art as illustrated by the natural dramatic expression of young children in rhythmic activities, games and dances. The aim is to help the student to value the importance of losing self in play as well as to gain ability in constructing games and dances for children in early elementary grades. Elective. Two term hours. Fall and Spring terms.

MISS KERN.

105. Story Telling. A study of the field of story telling for young children. Standards will be established for evaluating material. Students will have opportunity for practice. Elective. Four term hours. A two-hour course covering two terms. Fall, Winter and Spring terms.

MISS COPPENS.

EDUCATION AND PSYCHOLOGY

MISS SPINDLER

MR: RENSHAW DR. HILLIARD
DR. HENRY MR. ELLIS
MR. WILDS MR. SANGRENN

Education

101. Principles of Teaching. The purpose of this course is to establish a definite notion of the aim of education; to show the close connection of education as a human institution with
social order and progress; to formulate a few fundamental principles underlying the teaching process. The course will include such topics as the curriculum, moral and social training, discipline, type lessons, questioning, and lesson plans. Standards for judging classroom instruction are worked out and systematic observation of classes in the training school is made. This course must precede practice teaching. At least one term of Psychology is prerequisite to this course. Four term hours.

MISS SPINDLER, MR. WILDS,
DR. HILLIARD

125. Public Education in the United States. This course comprises a study and interpretation of American educational history, covering the rise and development of educational theory and practice in the United States, with particular emphasis on contemporary problems. Our European background is considered only so far as it throws light on the development of our own educational system. Elective. Four term hours.

MR. WILDS.

127. Principles of Secondary Education. A course in theory and practice of secondary education designed especially for teachers and administrators of the secondary grades including both the Junior and Senior High Schools. It deals with the specific problems of secondary education which arise in connection with the pupils, the curriculum, and the organization of the school. Elective. Four term hours. Not open to first year students.

MR. WILDS.

128. The Elementary School Curriculum. The purpose of this course is to familiarize teachers, principals, and superintendents with the materials of instruction upon which the successful administration of the curriculum depends. The following problems will be considered: the curriculum from the standpoint of social utility; the valuation and selection of texts; the choice of reference and supplementary materials; projects and problems in the curriculum; the teachers' professional library; time allotments. Each member of the class is expected to submit to the class the equipment necessary to the proper teaching of one school subject. Four term hours.

DR. HILLIARD.

129. School Administration. This course is intended for those who expect to engage in school administration as superintendents, principals and supervisors, and for those teachers who desire to understand better the conditions under which they work, and to cooperate with those in charge of the schools in the improvement of the system. The course involves a study of the relations of the Federal Government, State Government,
and local communities in the control and management of the schools. Elective. Four term hours. Not open to first year students.

MR. WILDS.

130. School Supervision. This course is designed for those who are looking forward to positions as principals, supervisors, and county normal critics. It aims to discuss the supervisory process and to arrive at some definite standards for the supervision of instruction. Not open to first year students. Fall and Spring terms. Four term hours.

MISS SPINDLER.

134. Psychology of School Subjects. The work of this course embraces a thorough study of the mental processes involved in learning the most commonly taught school subjects. The purpose of the course is to train school teachers in the application of the laws and principles of psychology to the technique of teaching. Psychology 102 is prerequisite. Elective. Four term hours.

MR. WILDS.

135. Experimental Education. A course in the application of the results of statistical and experimental investigation to the improvement of teaching and the solution of educational problems. Psychology 104, 105, or 106 is prerequisite to this course. Elective. Four term hours.

MR. WILDS.

139. Problems of School Administration. A practical course for superintendents and principals. Extensive use will be made of the reports of recent school surveys embodying definite recommendations for the improvement of our school systems. Concrete material will be collected from contact with actual field conditions. Elective for third and fourth year students. Four term hours.

MR. WILDS.

PSYCHOLOGY.

101. Introductory Psychology. This is a course for beginners. The course consists of lectures, recitations, quizzes, and laboratory work. Four term hours. Offered each term.

MR. RENSHAW, DR. HENRY, MR. WILDS
DR. HILLIARD, MR. ELLIS, MR. SANGREN

102. Educational Psychology. A study in class and laboratory of the nature and conditioning factors of human learning. Four term hours. Offered each term.

MR. RENSHAW, DR. HENRY, MR. WILDS
DR. HILLIARD, MR. ELLIS, MR. SANGREN
103. **Genetic Psychology.** Treats of the mental and physical conditions of life during childhood and adolescence, with special reference to their influence on educational practice. Must be preceded by courses 101 and 102. Not open to freshmen. Four term weeks. 

**DR. HENRY.**

104. **Statistical Methods.** A course in statistical theory and usage for students who plan to do work with mental and educational tests and scales. Some of the topics treated in this course are: standard methods of handling data; computation of averages, deviations, correlations, etc.; graphic representations; administrative statistics, etc. Students desiring to major in psychology are advised to elect this course before taking courses 105 or 107. Four term hours. 

**MR. RENSHAW.**

105A. **Mental Tests.** A practical course in which the student is trained to give and score the various types of individual mental tests. Elective for students who have had Psychology 101 and 102, with the consent of the instructor. Four term hours. 

**MR. RENSHAW.**

105B. **Mental Tests.** This course is a continuation of course 105A, and deals with the various forms of group mental tests. 105A and 105B may be elected separately or in sequence by the student. Four term hours. 

**MR. RENSHAW.**

106. **Educational Measurements.** A course in the theory and technique of the standard tests and scales for measuring abilities in the various school subjects. Enough of the elements of statistical method will be included to enable the student to summarize and evaluate the results obtained in his practice. Not open for first year students and must be preceded by courses 101 and 102. Four term hours. 

**DR. HENRY.**

108. **The Defective Child.** A course treating the nature and causes of the various grades of deficiency found in children. The dull, backward, and borderline as well as the distinctly feebleminded, "nervous", and psychopathic are studied. The work in class and laboratory is supplemented by a series of clinics. Four term hours. Not open to first year students. Should be preceded by courses 101, 102, and 103 or 105. 

**MR. RENSHAW.**

112. **Industrial Psychology.** Deals with the selection of industrial workers, industrial learning and training, vocational guidance, monotony, fatigue, rest, length of the working day, trade tests, job analysis, motion studies, rating scales, and the like. Prerequisite, courses 101 and 102. Four term hours. 

**MR. RENSHAW.**
English 99. A miscellaneous review and drill for students who are deficient in the rudiments of English-grammar, spelling, punctuation, reading, etc.—that usually are mastered in high school. 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. No additional credit will be given. Twice a week in each term.

101. Composition. This course aims to help the student in the use of composition as a practical art. Emphasis is placed upon sound organization of material and clear expression of ideas. To this end some time is given to the reading and analysis of several representative prose selections, and much practice work is done in the writing of short themes. A number of detailed outlines are developed, and at least one exposition of approximately 1,000 words is undertaken, preferably upon some subject of interest and value to the individual student. While a knowledge of the principles of punctuation, grammar and rhetoric is presupposed, critical attention is paid to their application and to the observance of the ordinary manuscript conventions. Required in Life Certificate courses. Four term hours. Fall, Winter, Spring and Summer terms.

101A. Advanced Composition. A general discussion of the four forms of discourse with the analysis of specimens of each form. Most of the time will be devoted to the writing and correction of themes. Four term hours. Spring Term.

102. History of English Literature. 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 must take it throughout the year. By special arrangements students entering the normal in February may take the second half of the course. First year elective. Nine term hours.

Note—This course is recommended for students who have not had a general survey course in English literature in the high

*Absent on leave 1923-24.
school. Students who have had such a course should elect English 110, 111, or 112.

DR. BROWN.

103. Literature for Children. 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 suitable 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. Fall, Winter, Spring and Summer terms. Four term hours.

MISS RAWLINSON.

104. Rhetoric. 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. This course covers the same ground as Composition 101 and Advanced Composition 101a, 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 course in Composition. Students must plan to take the course throughout the year. Fall, Winter, and Spring terms. Nine term hours.

DR. BROWN, MISS RAWLINSON
MISS NOBBS, MR. FOLEY.

105. Nineteenth Century Prose. A study of non-fiction prose of the nineteenth century. Offered in alternate years with English 109 and under the same conditions.
A. Coleridge, Lamb, Hazlitt, Hunt, and Landor. Fall Term.
B. DeQuincey, Macauley, Carlyle, and Newman. Winter Term.
C. Ruskin, Arnold, Hexley, Peter, and Stevenson. Spring Term.
Senior and third-year elective. Twelve term hours.
Offered in 1923-24.

MR. SPRAU.

106. Anglo Saxon. The purpose of the course 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. course. Elected for all other seniors and third-year students. Four and one-half term hours. Winter and Spring terms.

Note—Courses 106-107 meet three times a week and should be elected throughout the year. Students may not enroll for half of the year's work without the consent of the instructor.

DR. BROWN.

108. The English Grammar. 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 Johnson, Chapman, Beaumont and Fletcher, Webster, and Shirley, heroic dramas by Dryden, Congreve, Farquhar, and Vanbrugh; eighteenth century comedies; and the closest dramas of Byron, Shelley, and Browning. Six term hours. Winter and Spring terms. Offered in 1923-24.

DR. BROWN.

109. Nineteenth Century Poetry. 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 interpretative 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.
B. Landor, Tennyson, and Browning. Winter term.
C. Mrs. Browning, Clough, Arnold, Rossetti, Morris, and Swinburne. Spring Term.


MR. SPRAU.

110. English Literature. 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 subjects are considered. The course is intended to be a foundation for further study of literature. First year elective. Four term hours. Fall Term.

MR. SPRAU.
111. Lyric Poetry. 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. First-year elective. Intended for grade teachers especially. Four term hours. Winter Term.

MR. SPRAU.

112. The Familiar Essay. 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. Four term hours. Spring Term.

MR. SPRAU.

Note—While 110, 111, and 112 represent a consecutive year's work, each unit may be taken separately with profit.

113. The English Novel. The first aim of this 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 for the classroom. After some study of the picaresque tale of 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. Six term hours. Winter and Spring terms. Not offered in 1923-24.

DR. BROWN.

114. Shakespeare. 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. Senior and third-year elective. Nine term hours. Fall, Winter and Spring terms.

MR. SPRAU.

115. Literary Criticism. 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 sound critical judgment and to cultivate the habit of careful criticism. Senior and third-year elective. Four term hours. Winter and Spring terms.

MR. SPRAU.
116. Contemporary Literature. 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 on interesting subjects connected with the literature of today. The course is primarily a reading course; much library work is required. Senior and third-year elective. Four term hours. Fall and Winter terms.

MR. SPRAU.

117. The English Epic. A study of the general characteristics of the epics. The class will make a careful study of “Paradise Lost”. Selections will be read from other epics for comparative study. Open to third-year and fourth-year students. Three or four term hours. Not offered in 1923-24.

DR. BROWN.

118. The English Bible. 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 the 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. Elective for the first-year and second-year students. Third-year and fourth-year students may elect the course for credit only with the consent of the instructor. Twice a week throughout the year. Six term hours.

MR. SPRAU.

119. The Short Story. 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. Open to advanced students only. Three or four term hours.

(Given in alternate years with Eng. 117. Offered in 1923-24.)

DR. BROWN.

120. History of American Literature. A general survey of American literature. Considerable reading of selections to illustrate the various periods is required. Four term hours. Fall Term.

MISS NOBBS, MR. BURKLUND,


MISS NOBBS, MR. BURKLUND,
122. American Prose. An intensive study of the chief American prose writers. Four term hours. Spring Term. MISS NOBBS, MR. BURKLUND, (120, 121, 122, May be taken as separate units or as a year's course.)

123. Advanced Rhetoric. The course offers opportunity for practice and criticism in the various forms of written composition. It is open only to advanced students who have had Rhetoric 104, or Composition 101 and Advanced Composition 1012. It is taken for granted that students who enroll in the course have had considerable work in English literature or in foreign language. Four term hours. Fall Term. MR. FOLEY.

124. The English Conference. One evening each month 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

*Mисs Harrison  Mr. Wood  Miss Cooley

Note—All teachers preparing to teach in the grades or in the junior high school should elect courses 101A and 101B in the freshman year if possible. These courses are the prerequisite for all other courses offered by the department except 106, 107, 109, and 110.

Students specializing in Geography should elect 101A, 101B, 106, 107A, 109B, and at least one course in regional geography.

A minor in Geography consists of 101A, 101B, and one course from the group 102, 108, 104.

Students prepared to teach General Science should elect in this department either 101A and 101B, or 106 and 107A.

For students specializing in History, courses 101A, 101B and 110 are recommended.

101A. Principles of Geography. This course aims to make clear the field of geography and the new place the subject is beginning to take in the curriculum, and to develop in the student some appreciation of the influence of the physical environment upon man's life through a study of regions of the earth where climate is the dominating control. Attention also

*On leave of absence, Fall Term, 1923.
is given to the principles of map making, the major facts of mathematical geography, the factors controlling climate, and the reading of the weather map. Four term hours. Offered every term.

MISS HARRISON.

101B. Principles of Geography. This course considers the environmental elements of location, land forms, soils, mineral resources, surface and underground waters, coastlines, etc., from the standpoint of their influence upon social and economic conditions, and upon the distribution of people. The work is based upon the study of specific regions. Four term hours. Offered every term.

MR. WOOD.

102. Geography of North America. This course includes a study of the physiographic regions in their geological development, the climatic provinces in their world relations, forests and economic plants in relation to soils and climate, mineral and power resources, general industrial conditions, and the regional study of the major divisions of the continent. Four term hours. Fall and Summer terms.

MR. WOOD.

103. Geography of Europe. A study of the relation of the continent to the world as a whole, its physical features, climates, resources and the influences of geographic conditions on the development and present social, industrial, and commercial life of its leading nations. Not open to first-year students. Four term hours.

MR. WOOD.

104. Geography of South America. A study of the geographic regions of South America. The place of South America in world trade, with special emphasis upon the commercial relations between this continent and the United States. Not open to first-year students. Four term hours. Spring Term.

MISS HARRISON.

105. Geography of Asia. The course will include a study of the geography of the following areas: India, southeast Asia, Chinese Empire, Japanese Empire, Philippine Islands, East Indies. Not open to first-year students. Four term hours. Winter Term.

MISS HARRISON.

106. Meteorology. Causes and effects of variations of temperature, pressure, winds, and humidity; the cloud-forming processes and their relation to precipitation; observation, interpretation and forecasting of local weather; the work of the United
States Weather Bureau; the weather factor in agriculture and commerce. Not open to first-year students. Four term hours. Winter Term. (Not offered in 1923-24.)

MISS HARRISON.

107. Geology.
A. Geographic Geology. A course in advanced physiography including a study of rocks, minerals, soils, ore deposits, the origin of land forms, the interpretation of contour maps, practice in the chalk modeling of relief. Weekly field trips. Fall Term.
B. Historical Geology. This course covers the history of the earth to the end of the paleozoic era. It includes a study of the origin of the earth under various hypotheses, the Archiozoic era and the origin of life, and the physical history of those periods during which the land forms of North America and Europe assumed their present outlines. Special emphasis is placed upon the origin of the physiographic provinces of North America. Winter Term.
C. Historical Geology. This course covers the history of the earth from the end of the Paleozoic era to the present time. It includes a study of the development of the forms of plant and animal life, and recent changes in the outlines of the continents. Spring Term. Not open to first-year students. Twelve term hours.

MR. WOOD.

Note—The course continues throughout the year, but students may elect the first unit only.

108. Geography of Michigan. An intensive study of the geography of the chief sections of the State. Four term hours. Spring Term.

MR. WOOD.

109A. Principles of Geography. It is the aim of this course to develop in the student some appreciation of the influence of the several items in the physical environment upon man's activities. It is designed especially for students in the departments of Commerce and Manual Arts who desire to elect course 109B. Four term hours. Fall and Winter terms.

MISS COOLEY.

109B. Industrial and Commercial Geography. The geographic factors underlying commerce and industry; the geography of the major industries; the laws of trade; the machinery of transportation; the principal trade routes and the commerce which passes over them; great trade centers and the geographic and economic reasons for their importance; the
The Influence of Geography on History. This course aims to point out ways in which the physical environment has been a factor in history. Although the major part of the course will be devoted to the influences of geographic conditions upon the settlement, development, and governmental policies of the United State, attention also will be given to the influence of geography upon the trend of events in other countries. Desirable antecedents: 101A and 101B, or 106 and 107A, or 109A. Not open to first-year students. Four term hours. Winter Term. (Not offered in 1923-24.)

MISS HARRISON.

111. The Geography Conference. Once a week during the Spring Term, students preparing to teach in grades three to nine, inclusive, meet for the discussion of such topics as the selection of subject-matter and the organization of a course of study for the various grades, methods of teaching geography, measuring the results of geography teaching, and selection of illustrative material. One term hour.

MISS HARRISON.

HISTORY AND SOCIAL SCIENCE

MR. BURNHAM  DR. BURNHAM
MR. MOORE  DR. SCOTT
MR. SHILLING  DR. RUSSEL

HISTORY

101. United States History—To 1789. 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 beginning of state and national government. Elective. Four term hours. Fall Term.

MR. BURNHAM, MR. SHILLING, DR. RUSSEL.

102. United States History—1789 to 1865. 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 indus-
trial 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. Elective. Four term hours. Winter Term.

MR. BURNHAM, MR. SHILLING, DR. RUSSEL.

106. United States History—From 1865 to the Present Time. 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. Elective. Four term hours. Spring Term.

MR. BURNHAM, MR. SHILLING, DR. RUSSEL.

Note.—101, 102, 103 may be taken separately or as a consecutive year's work.

104. History of Greece. 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. Elective. Four term hours. Fall Term.

DR. RUSSEL.

105. History of Rome. From the earliest times to fall of the Empire in the West. The development of early Roman institutions, the expansion of Roman power over the Mediterranean World, the transitions from the Republic to the Empire, and the social, political, legal, and cultural life of Imperial Rome are the chief topics emphasized. Elective. Four term hours. Winter Term.

DR. RUSSEL.

106. Mediaeval Europe. 476-1500. The Teutonic invasions and their results, Charlemagne's empire, the rise and nature of feudalism, the mediaeval 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 are among the chief topics in this course. Elective. Four term hours. Spring Term.

DR. RUSSELL

Note.—104, 105, 106 may be taken separately or as a consecutive year's work.

107. Modern Europe. 1500-1763. 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. Elective. Four term hours. Fall Term.

DR. SCOTT

108. Modern Europe. 1763-1870. 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. Elective. Four term hours. Winter Term.

DR. SCOTT

109. Modern Europe. 1870-1921. 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. Elective. Four term hours. Spring Term.

DR. SCOTT

110. English History—55 B.C. to 1603. 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 Elizabethan era. Elective. Four term hours. Fall term.

DR. SCOTT

111. English History—1603 to 1815. Struggle for Parliamentary supremacy, the Great Civil War and Glorious Revolution; England and the Continental Powers, wars of the eighteenth century, colonial expansion; the American Revolution; opposition to France during Revolution and Napoleonic era. Elective. Four term hours. Winter Term.

DR. SCOTT

112. English History—1815 to the Present Time. Development of the British Empire; Parliamentary reform and the growth of democracy in the nineteenth and twentieth centuries, free trade and industrialism, the Labor Movement, the great self-governing dominions, Imperialism, the Irish question, the Great War and subsequent adjustments. Elective. Four term hours. Spring Term.

DR. SCOTT

Note.—110, 111, and 112 may be taken separately or as a consecutive year's work.

113. European Democracies. Attention in this course is centered on the rise and spread of democracy in Europe. The first term is devoted to a study of the political thought of the
period of the French Revolution, its origins, the forms of its evolution in France, its growth and influence upon other countries during the Napoleonic era. The work of the second term covers the period 1815 to 1915 and traces the struggle in the states of Western Europe and in the Near East between the forces of reaction and power of democracy; the era of Metternick, constitutionalism in Western Europe, modern Germany and Imperialism, Pan-Slavism and nationality in the Balkans and Russia. The third term is devoted to a study of the constitutions of the new governments formed during the Great War and a critical comparison of their political ideals with those of the United States and Western Europe. Work of the three terms should be taken consecutively. Open to those who have had courses 110, 111, and 112, or to third and fourth year students. Twelve term hours.

DR. SCOTT

114. United States History—1783 to 1815. 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. Open to third and fourth year students only. Elective. Three term hours. Fall Term.

MR. BURNHAM

115. United States History—1815 to 1848. 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 in this course. Open to third and fourth year students only. Elective. Three term hours. Winter Term.

MR. BURNHAM

116. United States History—1848 to 1865. 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. Open to third and fourth year students only. Elective. Three term hours. Spring Term.

MR. BURNHAM

POLITICAL SCIENCE


MR. SHILLING

102. State and Local Government. Since the Citizen has many contacts with the state and county or city government.
an effort will be made to acquaint the student with the organization, aims, and problems of state and local government. Elective. Four term hours. Winter Term.

MR. SHILLING

103. Comparative Government. A study of the principal features of the governments of England, and her self-governing colonies, of France, Germany, Belgium, Switzerland. Prerequisite, Government 101 or 102. Four term hours. Spring Term.

MR. SHILLING

ECONOMICS

101. Principles of Economics. A study of the fundamental laws and principles underlying the production, distribution, exchange, and consumption of wealth. This course is designed primarily but not exclusively for Commerce, Senior High, and A. B. degree students. It should precede all other courses in economics. Not open to first-year students. Eight term hours.

A. Economic Organization. The rise of modern industry and the place of banks, of business organization, of competition, of specialization, of government, of scientific management, and other numerous agencies which together make up our modern economic society are matters with which this course deals. Fall, Winter and Spring terms.

B. Value and Distribution. A continuation of 101A. In this course the student is expected to master the body of principles, mostly quite abstract, which are generally held by economic authorities,—such mastery as the student of Chemistry or Physics is expected to acquire. Prerequisite, 101A. Winter and Spring terms.

Students who have time for only one term of economics may elect 101A for four term hours.

MR. MOORE

102. Financial Organizations. A general 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, etc.,—which together comprise this system. Prerequisites, 101A and 101B. Four term hours. Spring Term.

MR. MOORE

103. Labor Problems. Labor organizations are historically traced and their present functions evaluated. Strikes, lockouts, boycotts, and other weapons of industrial warfare, methods of
promoting industrial peace, various wage systems, immigration and emigration, sweat-shop labor, prison labor, woman and child labor, unemployment, industrial and trade education, and important aspects of recent labor legislation are among the matters presented. Prerequisites, 101A and 101B. Four term hours. Spring Term.

**MR. MOORE**

104A, B. Public Finance. A study of public expenditures, revenues and debts. Primarily the course deals with the principles and problems of taxation; an analysis of typical modern taxes as represented by the general property tax, the income tax, corporation and inheritance taxes, the single tax and customs imports; the administration of these taxes; and the separation of the sources of state and local revenue. Prerequisites, 101A and 101B, or in special cases, permission of the instructor. This course runs through two terms. The class meets twice a week during the Winter and Spring terms. Four term hours.

**MR. MOORE**

105A, B. General Business Administration. 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, lay-out, 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. This course runs through two terms, meeting three times a week. Prerequisites, 101A and 101B. Fall and Winter terms. Six term hours.

**MR. MOORE**

**SOCIÖLOGY**

101. Sociology. This is a course running four times each week for the year, and the work of the three terms should be taken consecutively. It is open to second year students in the Life Certificate courses and to second, third and fourth year students in the A. B. course. Year’s work, twelve term hours.

A. Historical and descriptive study of the origin, kinds, elements and structure of society. An attempt to interpret and illustrate the scope, purpose, and method of a rational outline of social evolution. Fall Term. Text, Bogardus—*Introduction to Sociology*, supplemented with reference reading.

B. Social Psychology. A study of the psychology of individuals in their social relationships, covering such topics as
suggestion-imitation, phenomena, invention and leadership, group consciousness and group control as a basis of progress. Winter Term.

C. Applied Sociology. Modern methods of dealing with the dependent, defective, and delinquent classes of society. Child-caring agencies and their methods; institutional treatment of the feeble-minded, the insane and the criminal; causes and methods of prevention of juvenile delinquency will be studied. Training required for social workers and methods of investigation will also be taken up. Text, Gillin’s *Poverty and Dependency*, supplemented with reference reading particularly along lines of criminology and juvenile delinquency. Some field work will be done and reports made in special topics.

DR. SCOTT

102. Sociology. This is sociology 101 already described; and is given with such modifications as are necessary to adapt it to the needs of students in the second, third and fourth years, who may not be able to take a year’s work in the subject consecutively.

A. Dealey’s—*Sociology, Its Development and Application* will be studied with as much thoroughness and supplementation as the time will permit. Four term hours. Fall Term.

B. Cooley’s—*Social Organizations* with reference reading will be basic in the discussion. Four term hours. Winter Term.

C. Cooley’s—*The Social Process* and Coffin’s—*The Socialized Conscience* will be studied. Four term hours. Spring Term.

Any one of the foregoing subjects may be taken separately, or being taken together will constitute a year’s work in Sociology.

DR. BURNHAM

103. Sociology. A study of social relations and activities in small communities. An elementary text-book 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 community activities is available. Required in Limited Certificate course. Elective for first-year students in other courses. Four term hours Given every term.

DR. BURNHÁM

HOUSEHOLD ARTS

MISS BLAIR

MISS MOORE

MISS RAFFERTY

Clothing and Cookery courses 101 A, B, and C presuppose a general understanding of the fundamental principles of sewing and cooking. Students entering this course should have had
at least one year of clothing and cooking in an accredited high school. These courses form a basis for presenting the problems in the grades and high school. They are not designed for students who have had no preliminary training.

FOODS AND COOKERY

101 A, B, and C. Foods and Cookery. General review of fundamental principles of cooking. This course includes the study of foods, the planning, cooking and serving of breakfasts, luncheons, dinners, suppers, banquets, teas, etc. Requires demonstrations such as are useful in teaching cooking. Required of those wishing to major in foods and cookery. Two hour periods four times a week. Fall, Winter, and Spring terms. Four term hours.

MISS MOORE, MISS RAFFERTY

104A. Emergencies. This course includes “First Aid” remedies for sprains, bruises, cuts, burns, etc.

104B. Home Nursing. Instruction in caring for the sick when the professional services of a nurse are not required. Care and furnishing of a sickroom; care of common diseases of children and aged. Preparation and serving food for the sick and convalescent. Elective. Fall Term. Four term hours.

MISS MOORE

105. Home Sanitation and Management. Topic: the house, its location, structure, arrangement of rooms, heating, lighting, ventilation, furnishings, systematic housekeeping, cost of living and keeping of accounts. Practical work in cleaning, etc. Elective. Winter Term. Four term hours.

MISS MOORE


MISS MOORE

114. Rural Course. This course gives practice in simple cooking lessons which can be used in rural schools. Discussions of the hot lunch problem. Preparation of foods which could be served warm at the school. Fall Term. Three term hours.

MISS RAFFERTY

CLOTHING AND TEXTILES

101. Textiles. This course offers a general survey of the development of the present textile industry. Careful consideration is given to the fabric construction and analysis in order
to develop greater discrimination in the selection and purchase of textile fabrics. Fall Term. Four term hours.

MISS BLAIR

102. Clothing. A study and application of the general fundamentals of clothing, including simple drafting principles, study and use of the commercial pattern and principles of design applied in garment construction for adults and children. Winter Term. Four term hours.

MISS BLAIR

103. Home Economics Education. The purpose of this course is to give students a basis for the selection and organization of subject matter preparatory to teaching Home Economics. A study is made of the general aims and methods of teaching these subjects, and of problems arising in planning of Home Economics courses. Spring Term. Four term hours.

MISS BLAIR

104. Millinery. A course in fundamental millinery including pattern and frame construction, covering of frames with various textiles, general principles of making and placing trimming, remodeling and renovating of millinery materials. Fall Term. Four term hours.

MISS BLAIR

105. Clothing. This course aims to create feeling for good design in garments, as well as for an artistic freedom in work, by draping on the figure, copied and original models in paper and material. Color, line, and general principles of design are emphasized. Winter Term. Four term hours.

MISS BLAIR

106. Clothing. A course in advanced dressmaking including more fully applied principles of design, garment construction, and technique. Difficult problems in wool and silk are considered. Students gain further practice by fitting and constructing for others. Spring Term. Four term hours.

MISS BLAIR

107. Clothing—Art Needlework. A study of the general types of decorative needlework and application to household furnishings and clothing. Fall Term. Two term hours.

MISS BLAIR

114. Clothing—Rural. Elementary clothing work as basis for teaching simple garment work in rural schools. Fall Term. Two term hours.

MISS RAFFERTY
MISS ZIMMERMAN

99. **Elementary Latin.** This course is designed to meet the need of students who require two units of language credit for admission to the A.B. course. It will cover the first two years of high-school Latin. No college credit will be given. Fall, Winter and Spring terms. Two units of high school credit.

MISS KRAFT

101. **Cicero and Latin Composition.** Six orations of Cicero will be read in this course, and as many of his letters as time will permit, accompanied by a study of the political institutions of the Roman Republic. Fall, Winter and Spring terms. Twelve term hours.

MISS KRAFT

102. **Vergil.** The first six books of the *Aeneid* will be read, or selections from Ovid’s *Metamorphoses* may be substituted for part of the Vergil. A study of Greek and Roman mythology will accompany the reading. Fall, Winter and Spring terms. Twelve term hours.

MISS KRAFT

103. **Latin Literature.** A study of Roman literature, with rapid reading from representative authors, and a detailed study of the following:

A. **The Period of the Republic.** Cicero’s *De Senectute*. Fall Term. Four term hours.

B. **The Augustan Age.** Vergil’s *Aeneid*. Book VII; Livy, Selections from Books I, XXI and XXII. Winter Term. Four term hours.

C. **The Imperial Period.** Selections from the Letters of Pliny, Martial and Juvenal. Spring Term. Four term hours.

MISS KRAFT

104. **Latin Literature.**

A. Horace. *Odes* and *Epodes*.

B. Horace. Selections from the *Satires* and *Epistles*.

C. Latin Comedy. A study of the rise and development of Latin Comedy, and the reading of selected plays and Platus and Terence. Fall, Winter and Spring terms. Twelve term hours.

MISS ZIMMERMAN

105. **Teachers’ Course.** This course treats of the problems of the first two years of high school Latin. All students specializing in Latin are required to take this course. Winter Term. Two term hours.

MISS ZIMMERMAN
106. Latin Writing. Practice in the fundamental principles of correct expression in Latin. Spring Term. Two term hours. MISS ZIMMERMAN

107. Mythology. 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. Fall, Winter and Spring terms. Four term hours. MISS ZIMMERMAN

108. Mythology. A comparative study of the mythology of the Greeks, Norse and other Aryan nations, and a study of the relation between mythology and folklore. The aim of the course is to give to students of literature a background for a keener appreciation of the literature dealing with material drawn from these sources. Wide reading in such literature will be a part of the course. Not open to first-year students. Twice a week throughout the year. Six term hours. MISS ZIMMERMAN

LIBRARY

MISS FRENCH MISS CHAPMAN

A course of ten lectures on the use of the library will be offered each term. It is required of all students sometime during their first year. No credit in term hours.

MANUAL ARTS

MR. SHERWOOD MR. TABRAHAM
MR. WEAVER MR. NICHOLS
MR. HUFF MR. DIAMOND

101A. Woodshop. A beginner's course in the fundamentals of wood-working. Includes working drawing, blue print reading, care and use of bench tools, and the elements of wood finishing. Fee, $3.00. Four term hours. Fall, Winter and Summer terms. MR. SHERWOOD

101B. Woodshop. This course is planned to meet the needs of those students who have had considerable experience or training with the woodworking tools and who wish to organize this experience and adapt it to the needs and requirements of the schools. Courses of study are worked out, with models and
methods of class procedure. Shop arrangements, equipments, supplies, and inventories are carefully studied. Fee, $3.00. Four term hours. Spring Term.

MR. SHERWOOD

102. Woodshop. A more advanced course in woodworking with particular emphasis on technique of tools, grinding, and sharpening, as applied to elementary pattern making. Includes core making, molding, and the casting of patterns in soft metal. Trips are made to local pattern shops, foundries, and machine shops. Fee, $3.00. Four term hours. Fall, Winter, Spring and Summer terms.

MR. SHERWOOD

103A. Woodshop. This is an introductory course in the use and care of woodworking machines. Special emphasis is given to the various types of machines, methods of transmitting power, and points to be considered when buying woodshop equipment. Much attention is given to jointer and surfacer grinding, bandsaw filing and brazing, and circular saw fitting. Prerequisite, Woodshop 101. Not open to first year students. Four term hours. Fall and Summer Terms. Fee, $3.00.

MR. NICHOLS

103B. Woodshop. This is an advanced course in machine woodwork; the second term of a year's course, and includes caning, upholstering, wood steaming and bending, and wood finishing. Some work will be given in design as applied to cabinet construction. Prerequisite, 103A. Not open to first year students. Four term hours. Winter and Summer terms. Fee, $3.00.

MR. NICHOLS

104. Wood-turning. This is an elementary course in the fundamentals of wood-turning. 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 suitable for Vocational and High School classes. Four term hours. Fall, Winter, Spring and Summer terms. Fee, $3.00.

MR. NICHOLS

105. Advanced Pattern Making and Foundry Practice. An advanced course in wood pattern making, dealing with practical patterns for simple machines, supplemented by molding and casting from the patterns in aluminum. Includes core making; and trips to foundries, pattern shops, and other local industries. Prerequisite, Woodshop 102. Fee, $3.00. Four term hours. Fall, Winter, Spring and Summer terms.

MR. SHERWOOD
106A. Machine Shop. An elementary teacher-training course in machine shop practice, involving simple bench, lathe, and shaper problems. Four term hours. Fall and Summer terms. Fee, $3.00.

MR. WEAVER

106B. Machine Shop. Advanced practice for those who have completed elementary machine shop courses. Job work along commercial lines, and the machine tool operations involved give a practical knowledge of machine shop procedure. Four term hours. Winter and Summer terms. Fee, $3.00.

MR. WEAVER

106C. Machine Shop. Advanced shop practice combined with lectures on purchase of shop equipment, shop maintenance, shop layouts, ordering of supplies, and the outline of a course of study and making of drawings. Four term hours. Winter and Spring terms. Fee, $3.00.

MR. WEAVER

107A. Forge Shop. A teacher-training course involving problems suitable for Junior and Senior High School classes. Work consists of drawing out, upsetting, and welding projects in mild steel, using hand tools and power hammer. A study of the heat treatment of steel to obtain desired physical properties. Work involves processes in hardening, annealing, and tempering, with temperatures regulated by use of the pyrometer. Four term hours. Spring and Summer terms. Fee, $3.00.

MR. WEAVER

108. Mechanical Drawing.
A. Beginning drawing—tool technique, lettering, geometric problems, orthographic projections, isometric drawings, surface development, and working drawings. A course in drawing designed for those who have had no previous experience in drawing, those who are out of practice, or those who may need a review in these fundamentals of drawing. Eight hours' class work. Four term hours. Fall and Summer terms.

MR. HUFF

B. Drawing technique, machine details, sketching, tracing of large assembly drawings, blue printing, application of oodontoidal curves, cycloidal and involute gears, racks and pinions, bevel gears and cams, together with the shop processes for their construction. Eight hours' class work. Four term hours. Winter and Summer terms.

MR. HUFF

C. Teachers' course in Mechanical Drawing. Historical background of present-day industrial and living conditions. Courses of study, tracings, lesson plans, invoices, equipment
layouts, lectures, drawing, quizzes and note book. Review and amplification of parts of 108A and 108B of interest and value to each particular student. Eight hours' class work. Four term hours. Spring and Summer terms.

MR. HUFF

D. A twelve weeks' course in drawing primarily for Art students. Short intensive study of tool technique, lettering, geometric problems, orthographic projection, isometric drawing, machine details, tracing, and blueprinting. Shop trips, illustrated lectures, and some Architectural drawing. Eight hours' class work. Four term hours. Winter Term.

MR. HUFF

109. An advanced course in Mechanical Drawing, comprising a combination of machine drawing and architectural drawing. Knowledge of free hand drawing, art, wood, and metal working; including pattern making and foundry practice, very desirable though not required. Outside reading, term papers, lectures, use of balopticon and moving picture projector. Eight hours' class work. Four term hours. Fall and Summer terms.

MR. HUFF

A. Working drawings of some practical problem such as a lathe, jointer, or band saw, etc., together with the shop problems involved in producing the finished machine. Eight hours' drawing. Four term hours. Winter Term.
B. Continuation of 111A. Eight hours' class work. Four term hours. Spring Term.

112. Architecture.
A. A course designed to teach an appreciation of good architecture, to acquire the ability to get out a set of plans of a simple building, and to figure costs. Complete plans, elevations, details, etc, of a summer cottage, bill of material and estimate of cost. Plans, elevations, details, tracings, blue prints; semi-original in design, for a town house. Knowledge of free hand drawing and art desired. Lectures and outside reading. Eight hours' class work. Four term hours.

MR. HUFF

B. Continuation of 112A. Original architectural design for a town house, including a mechanical perspective. Outside reading, note book, and observation required. Eight hours' work. Four term hours. Spring and Summer terms.

MR. HUFF

115. Cabinet Construction. This course deals with the construction of school equipment; such as laboratory and tool cases, service tables, etc. The use of the furniture rod will be devel-
oped. Recommended for those who wish to teach advanced wood work. All materials are furnished. Prerequisite, 103A. Four term hours. Winter Term. No fee.

MR. NICHOLS

117A. Auto Mechanics. A beginning course in the fundamentals of the gasoline automobile. One class period a week is spent in the theory of the various parts; such as spring suspension, different types of axles, clutches, transmissions, and power plants; functions of engine parts, troubles, and repairs. The shop work consists of the jobs on the parts studied; for example: valve grinding, fitting connecting rods, and rear axle overhaul. Four term hours. Shop fee, $3.00.

MR. TABRAHAM

117B. Auto Mechanics. A second term in the fundamentals of the gasoline automobile, consisting of a very thorough study of electricity as applied to the automobile; including storage batteries, ignition, starters, generators, wiring, and lighting. Four term hours. Shop fee, $3.00.

MR. TABRAHAM

117C. Auto Mechanics. A study of general garage methods of repair including all sorts of repair jobs. Vulcanizing and welding may be taken in this course. Prerequisite, courses 117A and B. Four term hours. Shop fee, $3.00.

MR. TABRAHAM

130A. Vocational Education. 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. Fall Term. Four term hours.

MR. DIAMOND

130B. Vocational Education. 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. Winter Term. Four term hours.

MR. DIAMOND

130C. Vocational Education. Spring Term. Four term hours.

MR. DIAMOND

135. Sheet Metal. A course suited to the needs of the Junior High School involving projects in soldering, riveting, and seaming that are used in the home and shop. Four term hours. Fall and Winter terms. Fee, $3.00.

MR. WEAVER
140. **Carpentry.** This is a course in planning, designing and erecting buildings such as garages, or cottages; including mill work in the shop such as doors, frames, sash, etc., for the building to be erected. Emphasis will be placed upon the use of carpentry tools, saw filing, cost estimating, and methods of frame building construction. Fall and Spring terms. Four term hours. Fee, $3.00.

MR. NICHOLS

145. **Household Mechanics.** A course in the general mechanical principles involved in maintaining the modern house. Includes electricity as applied to door bells, lights, vacuum cleaners, etc. Plumbing, heating, and sheet metal working. A course of study suitable for the intermediate grades is to be worked out. Students preparing to teach in rural, agricultural and other consolidated schools will need this course. Fee, $3.00. Four term hours. Fall, Winter, Spring and Summer terms.

MR. TABRAHAM

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**MATHEMATICS**

MR. BLAIR

MR. CAIN

MR. EVERETT

MR. ACKLEY

MR. BARTOO

100A. **Algebra Beginning with Quadratics.** Four term hours. Fall Term.

MR. CAIN

100B. **Algebra and Solid Geometry.** Four term hours. Winter Term.

MR. CAIN

NOTE.—These courses are designed only for students who present for admission one year of algebra and one year of geometry. They are the equivalent of courses 12, 13 and 14 in high-school mathematics, but if courses, 12, 13 and 14 are taken by a candidate for a Life Certificate the total amount of credit granted toward a Life Certificate will not exceed eight term hours, or two-thirds of high school credit.

100C. **Solid Geometry.** Designed for students who present two years of high school mathematics, but who have not studied solid geometry. Four term hours. Spring Term.

MR. ACKLEY

101. **Arithmetic.** Lectures and discussions on the history and teaching of the subject, with assigned reading. Extended treatment of typical problems of applied arithmetic. This
course must be preceded by at least the equivalent of high school courses 6 to 11 inclusive. Four term hours. Fall, Winter, Spring and Summer terms.

MR. EVERETT
MR. BLAIR

102. Teaching of Junior High School Mathematics. 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 7th, 8th and 9th 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. Prerequisites, a knowledge of high school algebra and geometry. Four term hours. Winter Term.

MR. EVERETT
MR. BLAIR

103. Trigonometry. Plane trigonometry, trigonometric functions, identities, inverse functions, solutions, solution of triangles by logarithms. Four term hours. Fall, Winter, Spring and Summer terms.

MR. BLAIR
MR. ACKLEY

103A. Trigonometry and Algebra. This course includes all of the work offered in course 103 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. Five term hours. Fall Term.

MR. BLAIR
MR. ACKLEY

103B. College Algebra and Analytic Geometry. A continuation of course 103A. Rectangular and polar co-ordinates, simultaneous linear equations and determinants. Meets five times a week. Five term hours. Spring Term.

MR. BLAIR
MR. ACKLEY

103C. College Algebra and Analytic Geometry. Completes substantially all of the work offered in course 104B. Meets five times a week. Five term hours. Spring Term.

MR. BLAIR
MR. ACKLEY

104. College Algebra and Analytic Geometry. 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 103. Four term hours. Fall and Summer terms.

MR. EVERETT
MR. BLAIR

104A. College Algebra and Analytic Geometry. Permutations and combinations, the circle, quadratic equations, complex numerals, polynomials. Four term hours. Winter Term.
MR. EVERETT
MR. BLAIR

104B. College Algebra and Analytic Geometry. The parabola, ellipse, and hyperbola, higher plane curves. A brief survey of solid geometry. Four term hours. Spring Term.
MR. EVERETT
MR. BLAIR

105. Calculus. An elementary course in differential calculus. Presupposes course 104B or course 103C. Four term hours. Fall Term.
MR. EVERETT
MR. BLAIR

MR. EVERETT
MR. BLAIR

MR. EVERETT
MR. BLAIR

109. The Teaching of Secondary Mathematics. The aim of this course is to give the prospective teacher the best educational thought relating to the content and teaching of algebra and geometry in the high school. Winter and Summer terms.
MR. EVERETT
MR. BARTOO

110. Surveying. 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. Four term hours. Spring Term.
MR. EVERETT

112. Applied Mathematics. An elementary course in the application of the fundamental operations of mathematics to the solution of some of the specific problems that arise in connection with the setting up and design of shop machinery, and
also computations that are ordinarily encountered in figuring shop products. Four term hours. Winter and Spring terms.

121. Differential Equations. Four term hours. Spring Term.

MR. ACKLEY


MR. EVERETT

123. Solid Analytic Geometry. Four term hours. Spring Term.

MR. EVERETT

125. Theoretical Mechanics. The material of this course will consist 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. An elementary knowledge of calculus is a prerequisite. Text: Ziwet and Field's Analytical Mechanics. Four term hours. Winter Term.

MR. BLAIR

127. Theory of Statistics. A study of mathematical principles and formulae underlying investments, accounting, and educational statistics. The course will include the analysis and solution of typical problems. Four term hours. Fall Term.

MR. EVERETT

MODERN LANGUAGE

MISS ZIMMERMAN
MRS. HOCKENBERRY
MISS TAMIN
MISS JOHNSON
MISS MERIENNE

FRENCH

101. First Year French. This course will consist of (1) careful drill in pronunciation, (2) the rudiments of grammar, (3) the reading of 175 to 250 pages of graduated texts with constant practice in easy variations of the sentences read, (4) writing French from dictation and (5) the memorizing of French selections. It will be an aim from the outset to give training in understanding spoken French and in answering ordinary questions. Twelve term hours. Fall, Winter and Spring terms.

MISS TAMIN
MISS JOHNSON
MISS MERIENNE

**MRS. HOCKENBERRY**  
**MISS TAMIN**

103. **Nineteenth Century French Prose and Drama.** A course intended for third or fourth year students and it will include:  
A. Cursory study of the development of Romanticism in France—readings from Chateaubriand, George Sand, Balzac and Hugo.  
B. Nineteenth century prose with emphasis on the short story.  
C. The theatre in the nineteenth century. Plays of Coppée, Hervieu, Brieux, Rostand and Maeterlinck. During this course, certain hours will be devoted to a study of topics, oral and written, pertaining to French life, art, and education, as a cultural background for it and later courses. Twelve term hours.

**MRS. HOCKENBERRY**

104A. **Teachers' Course.** Designed for students who plan to teach. A study of phonetics, a review of French grammar from a teaching point of view, discussion of methods, and review of timely articles. Open to students of third and fourth-year French. Fall Term, four hours weekly. Four term hours.

**MISS TAMIN**

104B, C. **The Classical Literature of the Seventeenth Century.** A study of seventeenth century conditions and history, and the reading of some of the literary masterpieces,—works of Corneille, Racine, Moliere, and La Fontaine. Winter and Spring terms, four hours weekly. Four term hours.

**MISS TAMIN**

105. **French.** A course for fifth-year students will be organized according to their needs, either in advanced composition, or rapid reading and literature.

**TEACHERS OF DEPARTMENT**

**GERMAN**

103. **Third-Year German.** The aim of this course is to bring the student into direct touch with some of the masterpieces of German literature, and to trace the development of the most
important movements in German literature and history. The reading will include dramas of Lessing, Schiller, Goethe, and Kleist, one or more modern novels, and lyrics and ballads. Twelve term hours.

MISS ZIMMERMAN

104. Fourth-Year German. The basis of this course will be the systematic study of the history of German literature. The main stress of the course will be laid on the reading of representative works from the different periods studied. Twelve term hours.

MISS ZIMMERMAN

105. Modern German Novel and Drama.
A. A study of the German novel of the nineteenth century, with intensive reading of representative novels of the period for classroom work, supplemented by wider outside readings.

MISS ZIMMERMAN

SPANISH

101. First-Year Spanish. Particular attention is paid to pronunciation and the elements of grammar. The use of oral Spanish is encouraged, and some good Spanish readers afford material for class work. Twelve term hours. Fall, Winter and Spring terms.

MISS JOHNSON


MISS JOHNSON

103. Third-Year Spanish. Reading of more advanced texts, and advanced composition work, including free composition on the work read in class. If the class is composed of students who plan to teach Spanish, the work of the Spring Term will include a detailed study of the principles of pronunciation, the examination of the various text books for high schools, the discussion of methods in teaching the language, and a study of the sources available to the average teacher in building a background for understanding the Spanish-speaking nations. Twelve term hours. Fall, Winter and Spring terms.

MISS JOHNSON
101. Elements of Vocal Music. This is an academic course, and should precede the teachers' course in music. It presupposes no previous knowledge, but deals with the very rudiments of vocal music. It consists of the cultivation of the ear, the voice, and the beginning of sight singing. The course covered is that of Book One of any of the standard music courses. Three term hours of credit in Music and in Art and Music courses. Fall, Winter and Spring terms.

MISS COMBS

102. Elements of Vocal Music—Sight Singing and Ear Training. This course must be preceded by course 101 or its equivalent. It consists of ear training, voice culture, melodic writing of a simple character, and practice in part singing. Required of all students in the Music or Music and Art courses. Four term hours. Winter Term.

MR. MAYBEE

103-104-105. Voice Culture. The work in these courses is designed to meet the individual needs of the various voices. The underlying principles of voice building and artistic interpretation are taught. Three term hours of credit for each course. Fall, Winter, Spring and Summer terms.

MRS. DAVIS

106. Teachers' Music. This must be preceded by course 101 or its equivalent. Advanced sight reading and ear training are taken up in this class; discussion of methods, and practice teaching during class period as preparation for teaching this subject in the grammar grades. Observation is made in the Training School. Four term hours. Fall, Winter, Spring and Summer term.

Fall Term is designed for teachers preparing to teach in the upper grades and for special music students.

MR. MAYBEE

107. Methods in Music in Primary Grades. This course is a suggestive one for teachers in the primary grades as well as for specializing students. The care of the child's voice, and the development of an appreciation of rhythm, as well as the acquirement of a repertoire of children's songs. Six weeks' credit. Spring Term.

MRS. DAVIS

108. Primary Songs. A course designed especially for students specializing in the Early Elementary and Music courses. It will include an enlarged repertoire of songs, simple folk-
Jances, use of percussion instruments, practice in accompanying, and the writing of original settings. Four term hours. Winter Term.

MRS. DAVIS

109-110-111. Harmony. 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, etc. Students must be able to play sufficiently to render hymn tunes. The work covers three terms. Heacox and Lehman's textbook used, with illustrations and supplementary work from Foote and Spalding and other modern theorists. Four term hours of credit for each term. Fall, Winter and Spring terms.

MR. HENDERSON

112. History of Music. The evolution of music from the primitive phase to the time of Bach is considered in this course. The text used is Balzell's History of Music with collateral reading. Four term hours. Fall Term.

MR. MAYBEE

113. History of Appreciation. Course 112 need not precede this course, although it is desirable. Music from the time of Bach to the present-day composers is considered. The development of the orchestra, opera, oratorio, and various other musical forms are worked out with the aid of the piano, voice, and Victor Victrola, bringing within the hearing of the students various interpretations of the master voices. Four term hours. Winter Term.

MR. MAYBEE

114. Musical Composition and Analysis. This course deals with advanced harmony and the analysis of the various musical forms and must be preceded by courses 109-110-111. Students work out original compositions, either vocal or instrumental. Four term hours. Fall Term.

MR. HENDERSON

115. High-school Conducting. This course is intended for students specializing in music, but should prove helpful to students who are preparing for high school work. It will include advanced sight reading and the process of organizing and directing choruses, glee clubs, etc. Four term hours. Spring and Summer terms.

MR. MAYBEE

116. Music Observation. Observation of the teaching of music in the Training School. This includes a comprehensive comparative study of the system of public school music. Three term hours. Fall Term.

MRS. DAVIS
117. **Music Observation.** Continuation of 116. Three term hours. Spring Term.  

**MRS. DAVIS**

119-120-121. **Advanced Voice Culture.** Continuation of courses 103-104-105. Extended repertoires using standard songs, selections from operas and oratorios. Three term hours of credit for each term. Fall, Winter, Spring and Summer terms.  

**MR. MAYBEE**

122. **Chorus.** Classification for chorus should be made at the opening of the Fall Term. Mr. Maybee will be in his room to examine voices for the chorus, Monday and Tuesday afternoons of the first week of the Fall Term. See chorus under Musical Organizations, page 27. Rehearsals will be Tuesday evening from 7 to 8 o'clock, and Wednesday morning at 11 o'clock. Four term hours of credit for a year's work.  

**MR. MAYBEE**

123. **Freshman Girls' Glee Club.** Required of all Music and Music and Art Students. Regular meetings once each week.  

**MRS. DAVIS**

124. **Sophomore Girls' Glee Club.** Required of all second-year Music and Music and Art students. Regular meetings once each week. See Musical Organizations page 28.  

**MR. MAYBEE**

125. **Orchestra.** Regular rehearsal Monday, 4 p.m. See page 28.  

126-127. **Musical Composition and Analysis.** A continuation of course 114. Four term hours of credit for each term. Winter and Spring terms.  

**MR. HENDERSON**

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**PENMANSHIP**

**MR. GREENWALL**

A credit in penmanship is required of all candidates for normal school certificates in this state. The aim of this course is to give the student a knowledge of method and technique in penmanship, as well as to develop a practical style. Students are requested to enroll during their first year. The course is offered each term. Credit in weeks is not given.
PHYSICAL EDUCATION FOR MEN

MR. TAYLOR     MR. HYAMES
MR. READ       MR. OLANDER

101. Physical Education. Group athletics, soccer football, and competitive games. Fall Term.

MR. OLANDER


MR. OLANDER

103. Physical Education. Advanced athletics and games. Spring Term.

MR. READ, MR. OLANDER

104. Physical Education. Same as Course 101, but more advanced. Fall Term.

MR. READ, MR. TAYLOR

106. Physical Education. Intra-mural athletics. Spring Term.

MR. READ, MR. OLANDER

107. History of Physical Education. 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. Three term hours. Fall Term.

MR. READ

108. Gymnastic Theory. General principles, control and class management, methods and technique, formations, gymnastic commands. Two term hours. Fall Term.

MR. TAYLOR

109. First Aid. Knowledge and skill in meeting emergencies. Practice in bandaging, dressings, antiseptics, disinfectants, etc. Two term hours. Spring Term.

MR. OLANDER, MR. REED

110. Anthropometry and Physical Examination. This course is designed to equip men to make the ordinarily physical examinations required in public schools. Practice will be given in the technique of measurements and the usual physical examinations. Two term hours.

MR. TAYLOR

111. Physical Diagnosis. This course presupposes Course 110. Theory and practice of thorough physical diagnosis. It includes the study of appearance, conditions, defects, and de-
formities likely to be met with in the examining room. Heart and lung tests. Three term hours. Winter Term.

MR. TAYLOR

112. Massage and Hydrotherapy. Use of massage in treatment of sprains, bruises, paralysis, etc. Use of hot and cold applications. Three term hours. Fall Term.

MR. TAYLOR

113. Football Technique. Different styles of offensive and defensive play, football strategy. Two term hours. Fall Term.

MR. TAYLOR

MR. READ, MR. OLANDER

114. Kinesiology. Corrective gymnastics. The mechanics of bodily movements, medical gymnastics; corrections for deformities, infantile paralysis, etc. Four term hours. Winter Term.

MR. TAYLOR


MR. READ

116. Physiology of Exercise. Physiology applied to problems of exercise. Study of the circulation with respect to different types of exercise. Four term hours.

MR. TAYLOR


MR. TAYLOR


MR. HYAMES


MR. READ

120. Gymnasium, Athletic Field, and Playground Construction and Equipment. Two term hours.

MR. TAYLOR

121. General Athletics and Games. One term hour. Fall Term.

MR. READ

MR. READ


MR. READ

124. Advanced Athletics. Football, soccer football, and group games. One term hours. Fall Term.

MR. READ, MR. TAYLOR

125. Physical Education. Advanced gymnastics and apparatus work, graded athletic tests for mass athletics. Team contests. One term hour. Winter Term.

MR. TAYLOR

126. Physical Education. Advanced athletics in track and baseball. One term hour. Spring Term.

MR. READ, MR. TAYLOR


MR. READ

128. Fundamental Football. Fall Term. One term hour.

MR. READ, MR. OLANDER


MR. TAYLOR


MR. READ


MR. READ, MR. TAYLOR


MR. HYAMES


MR. OLANDER, MR. READ

136. Scoutcraft. 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. Four term hours. Spring Term.

MR. READ
A regulation gymnasium suit is required. Medical examination is required of each girl upon entering, and only upon agreement with the school physician may she be termed physically unable to take the work. Physical examination is required of every girl upon entering and at the close of the course. Students temporarily excused from the course may arrange for credit with the head of the department. Prescribed exercises combined with theory course given with Physical Education 105 will be substituted. Prompt enrollment and regular attendance are necessary to secure credit.

Instruction in swimming will be given to those desiring it; the pool is open to women on Mondays, Tuesdays, and Wednesdays.

All special Physical Education students must pass an examination in swimming.

101. Physical Education. Elementary general gymnastics; figure marching and simple tactics; light apparatus (wands); elementary heavy apparatus and gymnastic games. Fall and Winter terms.

MISS WORNER, MISS HUSSEY

102. Physical Education. This course presupposes Physical Education 101. This work is in advance with emphasis upon organized games such as long ball, newcomb and schlag ball. Winter and Spring terms.

MISS WORNER, MISS HUSSEY

103. Physical Education. This course presupposes Physical Education 101 and 102. It consists of advanced work in tactics, calisthenics, light and heavy apparatus work, folk and gymnastic dancing, games of high organization (indoor baseball, basketball, base crick).

MISS GUIOT, MISS HUSSEY

104. Physical Education. This course presupposes Physical Education 101, 102, 103. Simple Indian Club swinging is added with continued emphasis on games. Fall and Winter terms.

MISS GUIOT, MISS WORNER

105. Physical Education. This course presupposes Physical Education 101, 102, 103, 104. One period is devoted to classroom work. This theory period affords some opportunity for knowledge of the effects of physical exercise on the body and the need of systematic exercise for all. Also the classification of exercise, games, and folk dances for different ages is made. A
note-book is required in this course. Practice work continues in the remaining two periods. Winter and Spring terms.

MISS GUIOT, MISS WORNER

110. General Gymnastics and Folk Dancing. This course includes simple practice work in tactics, calisthenics, light and heavy apparatus, with analysis of its progression. A course in the folk dances of the various nations including clogs, jigs, reels, and country dancing. Fall Term.

MISS GUIOT, MISS WORNER

111. Methods. A continuation of 110. Methods of teaching general gymnastics; the progressive value of exercises, and the use of apparatus are studied. Gymnastic work for the schoolroom is given much consideration. Two term hours. Winter Term.

MISS GUIOT

112. General Gymnastics and Folk Dancing. Winter Term.

MISS GUIOT, MISS WORNER

113. General Gymnastics and Dancing. This course includes character dancing, aesthetic dancing, interpretative dancing, and natural dancing. Spring Term.

MISS GUIOT, MISS WORNER

114. General Gymnastics and Dancing. Fall Term.

MISS GUIOT, MISS WORNER

115. General Gymnastics and Dancing. Winter Term.

MISS GUIOT, MISS WORNER


MISS GUIOT, MISS WORNER

117. Swedish Practice. Study of the Swedish system of physical education, including marching, gymnastics, and apparatus. Fall Term.

MISS HUSSEY


MISS HUSSEY

119. Playground Organization. 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 highly organized competitive games are carried on in the gymnasium. Three term hours. Spring Term.

MISS GUIOT
120. **Applied Anatomy and Corrective Gymnastics.**

(a) **Applied anatomy.** The mechanics of bodily movements is carefully studied. Muscles are described as to location and action.

(b) **Corrective gymnastics.** A study of special exercises for their corrective value. Four term hours. **Winter Term. MISS HUSSEY**

121. **Gymnasium Equipment and Administration of Physical Education.** The study of administration of Physical Education, including construction of gymnasiums, locker rooms, and swimming pools. Two term hours. **Winter Term. MISS WORNER**

122. **Theory of Athletics.** 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. Two term hours. **Spring Term. MISS GUIOT**

123. **Theory of Games.** A study of games suitable for children of various grades. Special attention will be given to rules and playing technique of soccer, hocker, volley ball, basket ball, and baseball. Two term hours. **Spring Term. MISS WORNER**

124. **Theory of Swimming.** This course presupposes swimming to have been taken twice a week through the Fall and Winter terms. It includes the methods of procedure in teaching swimming, different strokes, dives, R. C. Life Saving, and the administration of swimming meets. **Spring Term. Two term hours. MISS HUSSEY**

125. **Swimming.** Required of all Physical Education students twice each week during residence. Instruction is given in the various strokes and diving. Opportunity will be given for passing the Red Cross Life Saving Test.

126. **Games.** Practice will be given in season in hockey, soccer, basket ball, tennis, and baseball. Required of all Physical Education students.

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**PHYSICS**

**MR. FOX**

Students expecting to teach physics in the high school must have, as a minimum, courses 101 A, B, and C. Through arrangement with the Chemistry Department a major may be
made by taking one year of chemistry and one year of physics. It is best to elect the chemistry the first year and defer the physics until the student has had a year of mathematics.

Laboratory work is required in all courses in physics. It is best for the student so to arrange his work that he may have from 3:30 to 5:30 open for laboratory work at least some of the days. A fee of $1.00 per term is charged.

100A, B. Elementary Physics. This course is designed for students who enter without high school physics. It may be used by Manual Arts students to satisfy two terms of the required physics. Eight term hours. Fall and Winter terms.  

100C. Electricity. Required of all Manual Arts students except those electing Physics 101A, B and C. Others may elect this course. It concerns itself with many problems of electricity, such as the measurement of resistance of wires and their gauge numbers, the construction and use of ammeters, voltmeters, wattmeters, the construction and use of various types of motors and dynamos for direct and alternating currents, and the construction and use of the electro-magnet in telegraph and telephone work. Four term hours. Winter and Spring terms.

101A. Mechanics and Sound. A course in general physics, consisting of recitations and laboratory work. This course, together with 101B and 101C, furnishes an excellent foundation for students preparing to teach physics in the high school, or for those who wish to enter engineering or to specialize in physics later. Prerequisite: high school physics, trigonometry and, preferably, analytic geometry. Students are advised to elect this course during their second year after having had the desired mathematics. The course consists of four recitations and two consecutive laboratory hours weekly. Prerequisite: trigonometry. Four term hours. Fall Term.

101B. Magnetism and Electricity. This course should follow 101A. The same general plan is followed as in 101A. Four term hours. Winter Term.

101C. Heat and Light. This course completes the year's work in general physics. Four term hours. Spring Term.

101D, E, F. This course is a problem course designed to accompany 101A, B, C. Students wishing the required 10 hours of physics for engineering later must elect this course. Class meets one hour weekly. One term hour.  

MR. FOX
MICHIGAN AVENUE DEMONSTRATION SCHOOL.
PORTAGE DEMONSTRATION SCHOOL.
THE SCHOOL "BUS."
PORTAGE TEACHERAGE.
102A. Alternating Currents. A demonstration and problem course. Introduction to the study of the solution of problems by graphic methods. Four term hours. Fall and Spring terms.

MR. FOX, MR. ROOD

102B. Electrical Measurements. Familiarity with the use of the instruments for making electrical measurements is the aim of this course. The work consists of two one-hour recitation periods and two two-hour laboratory periods weekly. Prerequisites: courses 101A, B, C, and preferably, calculus. Four term hours. Winter Term.

MR. ROOD


MR. ROOD

103. Astronomy. This course is a non-mathematical course in descriptive astronomy and will serve as an aid to students of general science and to others who wish to get an understanding of the elements of the subject. It is open as an elective to students of all courses. Four term hours. Winter and Spring terms.

MR. FOX, MR. ROOD

RURAL EDUCATION

MISS EVANS

DR. BURNHAM

MISS SKINNER

A belief is rapidly becoming common that teachers of rural schools must be asked to meet, as rapidly as circumstances allow, the requirements in scholarship and professional training demanded for good elementary school teaching anywhere.

Courses of training for rural teachers are already in print which definitely outline four years' preparation beyond the high school. It will take some years to reach this standard, but requirements of one-year and two-year training courses are immediately at hand. No one can begin teaching in Michigan after September, 1925, who has not had at least one year of training after the completion of a four year high school.

Two courses are offered for the preparation of teachers of rural schools.

1. A Life Certificate in Rural Education may be secured by high-school graduates after an attendance of two years. Many village and country districts are now paying salaries which enable them to demand full life certificate preparation on the part of the teachers they employ.
2. A Limited Certificate good in Michigan schools for three years may be secured by high-school graduates after an attendance of one year and one Summer Term.

The foregoing courses are administered by a special Department of Rural Education in which questions of advantageous enrolment for students beginning their preparation; for graduates of County Normal Training Classes, who wish more preparation for teaching rural schools, or who seek the second renewal of their certificates: for teachers who may wish to change from town or city to rural teaching; for teachers of experience who wish to prepare to teach in County Normal Training Classes; and for teachers, who have taken Limited Certificate courses for rural teaching and desire to go on, are given due consideration. Consultation with the director of this work should be sought.

The subjects of study offered in this department may be briefly summarized in three groups: First, such as give a knowledge of children and of their organization, management, and instruction; second, such subjects as give power for localizing the curriculum in natural, industrial, domestic, and health illustrations and applications; and third, a group of subjects intended to develop social intelligence and inspire purposes of participation and leadership in rural community life. Details of undifferentiated courses are given in descriptions of subjects in the departments to which they belong.

**RURAL TRAINING SCHOOLS**

Several agencies for supplementing the regular class work for students in the Rural Education courses have been instituted. Rural schools which are conveniently near the Normal School have been affiliated and are directed and used as Rural Training Schools to make vivid to prospective teachers of rural schools the actual situation in which they are to work. Practice teaching, under the direction of competent supervising critic teachers, is done in these schools. A rural sociological seminar meets two evenings each month and an annual Rural Progress Day brings students in contact with national and state leaders in rural life.

By resolution of the State Board of Education passed December 29, 1922, and amended January 5, 1923, there will be available next year for practice teaching purposes here, two rural agricultural schools and one rural school. It is the purpose of the Western Normal to work out every step in this advance movement with adequate care to make it permanent.

More than 200 students are to receive certificates in 1923 in the Limited course and the Life Certificate course in rural education, who need to have their practice teaching in rural training schools, and there is reason to believe that this number will be considerably increased by the legal minimum limit of
one year of training for all beginning teachers after September, 1925. The new rural training schools will be put into use as soon as they can be made ready, probably in the fall of 1923, and a much needed relief in the congested conditions under which practice teaching has been done will result.

**RURAL EDUCATION SUBJECTS**

Students in the department of rural education pursue academic and vocational subjects in all departments in the institution. They are also required to take what is considered an irreducible minimum of differentiated subjects, but even in these subjects the differentiation is made chiefly in illustrations and in applications, since it is believed that principles and fundamentals are very like in all school situations.

101. **Rural Education.** A required year of work for second-year students in the Life Certificate course in Rural Education. Elective by term divisions or by the year for second-year students in all Life Certificate courses and for students in the Degree course.

A. 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 consideration. Four term hours. **Fall Term.**

B. Attempts to increase specific understanding in rural economics. Carver's *Principles of Rural Economics* is used as a text. The work of the term concludes with a study of the possibilities of rural school instruction in industrial subjects. Four term hours. **Winter Term.**

C. 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. Four term hours. **Spring Term.**

**DR. BURNHAM**

102. **Rural Education.** This is a Summer Term course comparable to the first term of Rural Education 101. The course will utilize new material collected each year from states and institutions. A general view of progressive activities in rural education will be utilized as affording perspective for intensive study of the problems which are directly related to the service needs of the members of the class. Questions of maintenance, organization, supervision, teaching, and curriculum will be considered. Elective, not open to first year students. Two or four term hours of credit as earned.

**DR. BURNHAM**
103. **Sociology.** A study of social relations and activities in small communities. An elementary text-book in general sociology and a text dealing specifically with village and county life are used. A collection of source materials illustrating the cooperation of teachers and schools in local community activities is available. Required in Limited Certificate course. Elective for first year students in other courses. Four term hours. Fall, Winter, Spring and Summer terms.

**DR. BURNHAM**

102. **Principles of Teaching.** The aim of this course is to present the teaching principles to students planning to teach in rural and village schools, through readings, discussions, lectures and observations in the Training School and Rural Training Schools. This course leads on to practical participation in the school activities in the following term. Certain problems of management and law are discussed as they arise in connection with the work of the term. Prerequisite to practice teaching. Four term hours. Fall, Winter and Spring terms.

**MISS EVANS**

101. **Curriculum.** This course aims to acquaint students with modern tendencies in curriculum making and the content of our best elementary courses of study. The work will be divided into three parts: (1) a study of the general principles underlying present-day curricula and their application to the common school subjects; (2) a detailed study of the Michigan State Course of Study for Elementary Schools; (3) a brief comparative study of the Michigan course and the courses of other states and cities. Four term hours. Fall, Winter, Spring terms.

**MISS EVANS**

102. **County Normal Training Class Problems.** The aim of this course is to give to persons desiring to engage in teacher-training in county normals a knowledge of the organization, management, field, and value of these institutions. While particular emphasis will be placed upon the problems arising in county normals in Michigan, individual investigations and reports of similar teacher-training throughout the United States will be required. Four term hours. Summer Term.

**MISS EVANS**

104. **Rural School Supervision.** This course aims to offer the opportunity to those who desire to become helping teachers in rural schools, under the proposed Michigan act, to acquaint themselves with the problems of supervision in general and of rural schools in particular. A study will be made of present methods of supervision in Michigan and elsewhere and of the efforts that are being made to improve such supervision in the rural schools. Four term hours. Spring Term.

**MISS EVANS**
105. **Rural Education.** This is a seminar course running through the year for third and fourth year college students only. There will be one meeting a week of two hours. The best material in print on rural life and education will be read and discussed. One piece of research work will be required of each student. The library, the rural training schools, and the public schools of Kalamazoo County will be available for research purposes. Four or six term hours of credit as earned.

**DR. BURNHAM, MISS EVANS**

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**SPEECH**

**MISS ROUSSEAU**

**MISS SHAW**

101. **Fundamentals of Speech.** This course is a prerequisite to all courses offered in the Department of Speech. Every student expecting to take any work in Speech is advised to take this course in the Fall Term of his first year. It aims to develop in the student a thorough understanding of the basic principles of voice production, and includes study and drill in the vocal elements. Four term hours.

**MISS ROUSSEAU, MISS SHAW**


**MISS SHAW**

103. **Festival and Pageantry.** A study of the value of festivals and pageants, methods of organization, presentation, etc. The class will develop and present one festival. Required in the Physical Education Life Certificate course. Four term hours. Two times a week throughout the Winter and Spring terms.

**MISS SHAW**

104A. **Interpretative Reading.** Analysis and interpretation of the more simple types of prose and poetry. Prerequisite, Course 101. Winter Term. Four term hours.

**MISS SHAW**

104B. **Advanced Interpretative Reading.** Analysis and interpretation of the more difficult types of prose, poetry and the drama. Prerequisite, Courses 101 and 104A. Spring Term. Four term hours.

**MISS SHAW**

105. **Informal Speaking.** This course aims to develop clear thinking and ease and effectiveness in speaking. It includes
a brief study of the best specimens of modern addresses, and frequent practice in the various forms of public address. Prerequisite, Course 101. Two times a week throughout Winter and Spring terms. Four term hours.

MISS ROUSSEAU

106. Argumentation and Debate. This course consists of a thorough study of the principles of argumentation and frequent practice in debating current public questions. The problem of coaching and judging debates is also studied. Prerequisite, Course 101. Two times a week throughout Winter and Spring terms. Four term hours. Not open to first-year students.

MISS ROUSSEAU

107. Advanced Argumentation and Debate. This is a course in the 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. The class is limited to those chosen as members of the debating squads. Winter Term. Four term hours.

MISS ROUSSEAU

110. Play Production. This course deals with the methods of staging plays. It includes a study of stage settings, costumes, and make-up. Lists of plays, publishing houses, manuscript houses, etc., will be prepared. Prerequisites, Courses 101, 104A, and 104B, or the consent of the instructor. Spring Term. Four term hours.

MISS SHAW

125. Psychology of Speech. An advanced course dealing with the development of speech as a form of human behavior, from a biological and psychological standpoint. Prerequisites, Psychology 101, and Junior standing or a major in speech. Winter or Spring terms. Four term hours.

MISS ROUSSEAU

THE TRAINING DEPARTMENT

TEACHING

MR. ELLSWORTH AND SUPERVISORS

101, 102. Teaching. These courses include (1) the teaching of classes in the Training School or other practice schools; (2) observation of lessons taught by Supervisors; (3) the study and measurement of children in groups and as individuals; and (4) meetings with the Director of the Training Department and the Grade and Special Supervisors. In a larger way, students are expected to enter into the life and interests of the school and
the children; and to become familiar with the aims, the courses of study, and the general workings of the school. Opportunity is afforded for participation in many special features such as assemblies, parents' meetings, festivals, etc.

Students enroll for Teaching with the Director of the Training Department at the time regularly scheduled for enrollment. Assignments to Supervisors are posted on the bulletin board of the Training School office at the close of the term or at the opening of the new term. Students then report to the Supervisors for instructions. Class meetings with the Supervisors are held Tuesdays and Thursdays at eight o'clock in the Grade rooms, and with the Director at eight o'clock Saturdays. These hours must therefore be reserved by all students enrolling for Teaching.

103. Teaching. The privilege of an elective term in Teaching is granted only with the permission of the Director of the Training Department and the member of the Normal Faculty with whom enrollment is made. Students attend meetings as directed by the Supervisors. Four term hours.

105. Teaching. A course in theory, observation and method is offered in the Summer Term for people of maturity and experience. This course is offered by each Grade Supervisor, hence may be taken in the grade in which the student expects to teach. It is designed to keep teachers of experience in touch with the best present-day practice. Four term hours. Offered Summers only.

SPECIAL CONDITIONS AND REQUIREMENTS

Teaching 101 and 102 are required in all the Life Certificate Courses. Four term hours' credit each. In so far as possible students are urged to take both units of Teaching in the same term. At least two consecutive hours should be reserved for this work. In case they are taken in different terms, meetings with the Director are required only of first-term students.

Teaching 101 is required in the Limited Certificate Course. Four term hours of credit.

All students must have completed the courses in Elementary and Educational Psychology, and Principles of Teaching, before entering the work of the Training Department.

All work in Teaching must be done during the second year of the Life Certificate courses. Candidates for Limited Certificates may take Teaching during the last full term’s work.

The courses in Teaching 101, 102, and 103 are offered only in the Fall, Winter and Spring terms. They are not offered in the summer term owing to the necessity of accommodating many observation classes.

Teaching 105 is the only teaching course available in the Summer Term. (See above, Teaching 105.)
Students are strongly advised not to undertake extra studies during the term or terms in which practice teaching is being done.

Each unit of Teaching; 101, 102, 103, and 105; counts the same as one academic subject and is entitled to four term hours of 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 Teaching in the lower grades of the Training School.

THE TRAINING SCHOOL

Practice Teaching is carried on in an especially designed and equipped model elementary school, including a Kindergarten and the first eight grades, class rooms, a gymnasium, and cooking and manual arts laboratories.

Here, under trained supervision, students have an opportunity to test theory with practice, by teaching and observing under especially arranged conditions; which, however, present such problems as will daily be met with in ordinary teaching.

While the school is primarily a teach-training institution, yet the principle is maintained that the welfare of the children is paramount, since it is believed that whatever advances their well-being best serves the purpose for which the school exists.

It is further designed that the school be a model one in the sense of having teachers of the best training and equipment, and in employing the best methods, materials, courses of study, etc. The work is grounded in well-established standard practices, yet a distinct effort is made to keep well abreast of all sane progressive movements in the field of education.

Pupil-enrollment in the school is by especial application. New pupils are accepted from a waiting list when vacancies occur.

Owing to the large demand for admission, only pupils of normal grade-age are admitted. No room for retarded pupils is maintained.

FURTHER PRACTICE TEACHING FACILITIES

The Normal High School, a typical four-year high school and member of the North Central Association, further extends the practice teaching field. (See "High School".)

A city training school is maintained, jointly with the Board of Education of Kalamazoo.

Rural practice is afforded in a one-teacher county school on Michigan Avenue; a two-teacher country school on the Gull road; a six-teacher village school at Portage Center; and an eight-teacher consolidated school at Richland.
THE DIRECTOR OF THE TRAINING DEPARTMENT

All the work of the Training Department is carried on under the general direction and supervision of the Director. All students in the first term of practice teaching meet with the Director once a week, Saturdays at eight o'clock, for a general lecture on professional ethics and other matters pertaining to professional success.

Appointment Service: The Western State Normal School maintains an Appointment service in charge of the Director of the Training Department and a committee of five members of the faculty representing different departments. This service is free to the graduates of all courses and to the alumni. A serious effort is made to place each graduate in as good a school as his record in the institution justifies. No good student need look elsewhere for appointment service.

THE TRAINING SCHOOL SUPERVISORS

In charge of each grade of the Training School, and of each special subject is a Supervisor. The Supervisors are responsible for the progress of the pupils and the student teachers.

Supervisors assign students to the special classes to be taught, direct their teaching and observation, and teach demonstration lessons, as often as the needs of pupils and students demand. At least one lesson a day is thus taught by each Supervisor.

Supervisors meet student-teachers Tuesdays and Thursdays at eight 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 special subject-conferences 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 cooperate 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 making of reports, etc.; the study of individual children and the measurement of groups; and attendance at meetings with the Supervisor and Director.
ASSEMBLY EXERCISES

Regular weekly assemblies of all the grade children, their teachers and guests are held Thursdays at eleven o’clock, in the rotunda of the Training School. The programs are most frequently in charge of groups of the children themselves in some form of entertainment that represents a culmination of the work in the grade or some part thereof. The work in music, art, and folk-dancing are indispensable features of these programs, and often furnish the major part of entertainments. These assemblies not only serve to unify the school, but they 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.

THE OBSERVATION ROOM

One grade room each term 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. It is provided that 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 of observing good teaching under conditions that closely approach the ordinary public-school situation.
1922 CHILDREN'S PAGEANT—TRAINING SCHOOL.
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 an experienced 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 for 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 a high school 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 Principal.

The high school is on the accredited list of the North Central Association of Colleges and Secondary Schools and of the University of Michigan. Two courses of study are offered and a liberal number of elections are permitted.

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 program committee composed largely of students plan the programs.

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.

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."
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 furnished for a number of other occasions.

The Council.
The Council is a debating club in the Normal High School which was created out of the intense interests in debating at the close of the year 1919-20. 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.

Admission and Course of Study.
Admission. Only a limited number of students can be admitted each year, hence students are admitted by application. 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.
CLASS OFFICERS FOR 1922-23

Senior Class
President ... Donald Paterson
Vice-President ... Duane Luce
Secretary ...... Nathan Weed
Treasurer ...... Katheryn Everett
Junior Class
President .... Lawrence Boys
Vice-President .......... Frances Dunkley
Secretary and Treasurer...
                        Grace Renwick
Chairman of Social Com-
mittee ........... Elsa Blair

Sophomore Class
President ... Howard Jackson
Vice-President. Jean Campbell
Secretary ...... Sam Dunkley
Treasurer ....... William Hough

Freshman Class
President. Frederick Curtenius
Vice-President. Elizabeth Blair
Secretary and Treasurer...
                        Charles Weidenfeller

NORMAL HIGH SONG.
Tune: "Yoo Hoo." Words: D. Mainwaring.
We love the school upon the hill-top,
We stand behind her purpose true.
In her defense we pledge our honor;
We'll fight her battles.
Oh, how we love her.

Chorus
From Normal High we'll greet you,
But we're out to win the day,
As Normal High we'll beat you,
For we surely know the way, where
You fight in desperation
We'll be saying do not cry,
Tho defeat can only await you
From Normal High.

YELLS.
Gazilla, Gazilla, Gazilla, Gazay!
Get out! Get out! Get out of the way!
Bevo! Bivo! Zip, Boom, Ba
Normal High School
Rah! Rah! Rah!

Locomotive
Normal High! Normal High! Let's go! Let's go!
Normal High! Normal High! Let's go! Let's go!
Normal High! Normal High! Let's go! Let's go!
GO!!!

Rah! Rah! Rah! Rah! Normal High! Normal High!
Rah! Rah! Rah! Rah! Normal High! Normal High!
Rah! Rah! Rah! Rah! Normal High! Normal High!
RAH!!!
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<th>9th</th>
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<tbody>
<tr>
<td><strong>For Colleges and Normal Schools</strong></td>
<td><strong>For Colleges of Engineering</strong></td>
<td><strong>General</strong></td>
<td><strong>Commerce</strong></td>
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**NOTE**—*Required if majoring in Bookkeeping
**Required if majoring in Shorthand**
## COURSES OF STUDY

### PREPARATORY

Prepare for College

<table>
<thead>
<tr>
<th>Pre-Vocational</th>
<th>Music and Art</th>
<th>Electives</th>
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<tr>
<td><strong>Physical Education</strong> English Gen'l Mathematics 1 Shop 1 or Household Arts 1 One Elective: (Choose from 9th grade electives in right hand column)</td>
<td><strong>Physical Education</strong> English One Language (begun) Art or Music One Elective: (Choose from 9th grade electives in right hand column.)</td>
<td>History Community Civics Latin French General Science Speech 24 Home Economics Shop Work Com. Arith Music Art</td>
</tr>
<tr>
<td><strong>Physical Education</strong> and First Aid English Gen'l Mathematics 2 or Gen'l Science Shop 2 or Household Arts 2 Biology</td>
<td><strong>Physical Education</strong> and First Aid English Language Started (continued) Art or Music Biology</td>
<td>History Latin French Biology Speech 24 Home Economics Shop Work Typewriting Art Music</td>
</tr>
<tr>
<td><strong>Physical Education</strong> English Mechanical Drawing or Household Arts 3 Chemistry Design or an elective chosen from 11th grade electives in right hand column.</td>
<td><strong>Physical Education</strong> English Art or Music History One Elective: (Choose from 11th grade electives in right hand column.)</td>
<td>History Geometry Latin French Chemistry Home Economics Mechanical Drawing Bookkeeping Music Art</td>
</tr>
<tr>
<td><strong>Physical Education</strong> English Shop 4 or Household Arts 3 American History and Civics Physics or an elective chosen from 12th grade electives in right hand column.</td>
<td><strong>Physical Education</strong> English Art or Music American History and Civics One Elective: (Choose from 12th grade electives in right hand column.)</td>
<td>English Trigonometry Latin French Physics Public Speaking Home Economics Mechanical Drawing Stenography Music</td>
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</tbody>
</table>
ENGLISH

First Year

1 a, b, c. English. Required in first-year High School course. The work consists of composition, a study of literature, and a thorough study of English grammar. The literature in the first term consists of a study of the classics and legendary narrative prose; in the second term, a study of one of Shakespeare's comedies; and the third term, a group of narrative poems. One unit's credit for one year's work.

MISS MASTER

Second Year

2 a, b, c. English. 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. One unit's credit for one year's work.

MISS MASTER

Third Year

3 a. English Literature. Required in third year High School course. Five periods a week. The aim of this course is to inspire further reading of various kinds of literature, both fiction and non-fiction, and from this reading to understand, through intensive study, many well chosen classics. This course consists of a study of the periods of English literature from the beginning to the Restoration. Class study is made of representative selections from the different periods. Each student is required to read one book a month besides his regular class reading. Fall Term.

MRS. BISCOMB

3 b. English Composition. Required in third-year High School course. Five periods a week. This course, which is both oral and written, includes the writing of letters, checks, original abstracts, and outlines, news items, editorials, short stories and essays in imitation of those studies, class discussion and short talks on outside reading and assigned topic. Winter Term.

MRS. BISCOMB

3 c. English Literature. Required in third-year High School course. Five periods a week. This course consists of a study of the periods of English literature from 1660 to the present time. Representative selections from these periods are studied in class. Much outside reading is required. Spring Term. One unit's credit for one year's work.

MRS. BISCOMB
Fourth Year

4 a. English. Elective in fourth-year High School course. This course consists of a rapid survey of the history of English literature, supplemented by a generous amount of reading. Fall Term.

MRS. BISCOMB

4 b. English Composition. Elective in fourth-year High School course. This course consists of a rapid survey of the history of English literature, supplemented by a generous amount of reading. Fall Term.

MRS. BISCOMB

4 b. English Composition. Elective in fourth-year High School course. Five periods a week. The aim of the course is correctness in expression. Constant drill in the structure of the sentence, the paragraph, and the entire composition is given. The elementary principles of the four forms of discourse are studied and put into practice. Winter Term.

MRS. BISCOMB

4 c. English. American Literature. Elective in fourth-year High School course. Five periods a week, two for the survey of the history of American literature, this to include important biographical facts of the chief writers; and three for a study of their most worthy productions. Spring Term. One unit's credit for one year's work.

MRS. BISCOMB

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. Fall, Winter and Spring terms.

MISS ROUSSEAU


4 b. Public Speaking. The second term of the course is devoted to platform speaking. The aim is to develop ease and poise in speaking before an audience. The construction of a speech is emphasized.

4 c. Public Speaking. The third term of the course is devoted to work in reading, story-telling, and interpretation. One unit's credit for one year's work.

MISS ROUSSEAU
MATHEMATICS

1 a. Algebra. Elementary algebra to factoring. Fall Term. MR. BARTOO

1 b. Algebra. A continuation of algebra 1 a through ratio and proportion. Winter Term. MR. BARTOO

1 c. Algebra. A continuation of algebra 1 a and b through quadratic equations. Spring Term. One unit's credit for three terms' work. MR. BARTOO

1 a, b, c, and 2 a, b, c. General Mathematics. An elective subject in the first year of high school. It can be substituted for algebra and geometry but should be carried two years when elected. Two years of credit in mathematics will be given for two years' work. In this course the principles of algebra, geometry, trigonometry, practical constructions, and statistics are taught, and much drill is given on exercises based on these principles. Fall, Winter and Spring terms. One unit's credit for each year. MR. CAIN

2 a. Plane Geometry. An elementary course. Fall Term. MR. BARTOO


2 c. Plane Geometry. The subject completed. Spring Term. One unit's credit for three terms' work. MR. BARTOO

3 a. Algebra. Review of elementary algebra, including some advanced algebra. Fall Term. MR. BARTOO

3 b. Algebra. Advanced High School algebra. Winter Term. MR. BARTOO

3 c. Solid Geometry. Spring Term. MR. BARTOO

103. Trigonometry. Plane trigonometry, trigonometric functions, identities, inverse functions, solution of triangles by logarithms. One-half unit's credit. Fall, Spring and Summer terms. MR. BLAIR, MR. ACKLEY
In the freshman year a choice of two subjects is offered: Community Civics and Ancient History.

1 a, b, c. Community Civics. A one-year course which aims to present some of the characteristics and problems of American life today. It deals first with the groups and work of a local community, then with the organization of the state, and finally with the functions of the national government. In connection with this work, an average of one day a week will be devoted to a careful study of current events, using some regular weekly periodical and various newspapers as a basis for the work. Fall, Winter and Spring terms. One unit's credit.

MISS BURNHAM

1 a, b, c. Ancient History. May be taken instead of Community Civics, or Community Civics may come the first year, and Ancient History the second. This course aims particularly to show the origin of many institutions and customs of today. The first four weeks are devoted to a study of primitive man and the various Oriental nations. Then comes a careful survey of the Greeks and Romans.

About half of the Winter Term and the Spring Term are taken up with Medieval History; the barbarian invasions, the rise of the church, feudalism, and the Reformation. Fall, Winter and Spring terms. One unit's credit.

MISS BURNHAM

2 a, b, c. Modern History. Elective in either the sophomore or junior year. This is a survey of the great changes in Europe (since 1700) that culminated in the World War. Included is a careful study of the war and conditions in Europe since. Here also an average of one day a week is devoted to current events, using some regular weekly periodical. Fall, Winter and Spring terms. One unit's credit.

MISS BURNHAM

4 a, b, c. American History and Civics. Required in the senior year. In the first term is a study of American History to about 1830, particularly the colonies and the early Republic. The second term covers American History to the present time, with at least half the term devoted to the period since the Civil War. In the Spring Term a survey is made of our local, state and national government, with particular reference to the problems that future voters should understand. Also some time will be devoted to current events with the aid of newspapers and periodicals. Fall, Winter and Spring terms. One unit's credit.

MISS BURNHAM
1 a, b, c. For Beginners. Study of forms and syntax, followed by six weeks of connected reading in selections from easy narrative prose. Fall, Winter and Spring terms. One unit’s credit.

MISS KRAFT, MRS. ELLSWORTH

2 a, b, c. Caesar and Latin Composition. Selection from Caesar’s *Gallic Wars*. A study of the time of Caesar, his place in Roman history, and the organization of the Roman Army will be made. Fall, Winter and Spring terms. One unit’s credit.

MISS KRAFT, MRS. ELLSWORTH

3 a, b, c. Cicero and Latin Composition. Six orations of Cicero will be read in this course and as many of his letters as time will permit. A thorough study will be made of the political institutions of the Roman Republic. Fall, Winter and Spring terms. One unit’s credit.

MISS KRAFT

4 a, b, c. Vergil. The first six books of the *Aeneid* will be read and selections from the last six; or selections from Ovid’s *Metamorphoses* will be substituted for part of the Vergil. A thorough study of Greek and Roman mythology will be included in the course. Fall, Winter and Spring terms. One unit’s credit.

MISS KRAFT

FRENCH

1 a, b, c. First Year. Camerlynck’s *France* is used as the main text-book and later, *Petits Contes de France*, by Meras and Roth, is added for reading. It is the aim 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. The subject matter in the reading text gives a knowledge of folk-lore and French customs. Fall, Winter and Spring terms. One unit’s credit.

MRS. HOCKENBERRY, MISS TAMIN

2 a, b, c. Second Year. A review of grammar in new forms, the verb being especially stressed as one of the chief difficulties in French. *Introductory French Composition*, by Francois, is used as a basis for the review. Such texts as *L’Abbe Constantin*, by Halery; *Mon Oncle et Mon Cure* and *Les Miserables* (abridged), by Victor Hugo, are read, direct translation being avoided, through oral and written answers, dictation and resumes. Fall, Winter and Spring terms. One unit’s credit.

MRS. HOCKENBERRY, MISS TAMIN
3 a, b, c. Third Year. Still further reading of carefully selected prose narrative and plays, enrichment of vocabulary and grasp of thought content being the aim, rather than actual translation. The texts furnish a background of history, geography and facts that make real the life of the French people. Fall, Winter and Spring terms. One unit's credit.

MRS. HOCKENBERRY

SPANISH

103. Spanish. This is a course in beginning Spanish. Open to high school students by permission only. Fall, Winter and Spring terms. One unit's credit.

MISS JOHNSON

BIOLOGY

2 a, b, c. Elementary Biology. This course aims to introduce the student to the realm of biology, giving him a general knowledge and appreciation of the life about him and its controlling principles with the hope that such knowledge and appreciation will widen his outlook, increase his capacity for enjoyment, and orient him in nature. The course lays the foundation for further work in the department to which it is prerequisite. Consists of laboratory, field and recitation work throughout the year. Open to all high school students in their sophomore year. Fall, Winter and Spring terms. One unit's credit.

MISS COOLEY

EVERYDAY SCIENCE

1 a, b, c. This is a course for high school freshmen or sophomores. It aims (1) to train the student to have the scientific attitude toward life; that is, the curious, wondering, truth seeking attitude; (2) to make the student more familiar with the environment which governs his daily life. Fall, Winter and Spring terms. One unit's credit.

MISS COOLEY

CHEMISTRY

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. The course is limited to high school students. Fall, Winter and Spring terms. One unit's credit.

MR. ROOD
PHYSICS

4 a, b, c. Physics. This is a course for beginners and runs throughout the year. Work will consist of lectures, demonstrations, recitations, and laboratory work by the student. A note book containing data of laboratory work must be kept by each student. A laboratory fee of $1.00 will be charged each term. Fall, Winter and Spring terms. One unit's credit.

MR. ROOD

ART

1. Art. Study of perspective principles and applications in decorative work as found in studies from nature and simple objects. Study of lettering and poster making for school activities and commercial problems. Fall Term.

MISS STEVENSON

2. Art. Figure work in pencil, ink, charcoal, and color, leading to commercial illustration. Winter Term.

MISS STEVENSON

3. Art. Illustration work for year book. More advanced problems in poster work, showcards, etc. Problems in design applied to handwork. Spring Term. One unit's credit for one year's work.

MISS STEVENSON

HOUSEHOLD ARTS

1 a, b, c. Clothing. This course includes the following: use and care of the sewing machine and its attachments, making stitches and seams by hand and machine, with application to household articles and undergarments; the drafting and adaptation of patterns; cutting, fitting, and finishing of undergarments; making a tailored skirt of cotton material, a waist and a simple lingerie dress. Fall, Winter and Spring terms. One-half unit's credit.

MISS RAFFERTY

1 a, b, c. Cooking. This is a general course in cooking, the study of foods, and the principles underlying the cooking of these foods. There will be some work in the serving of meals and other work connected with the management of the home. This course is open only to high school students. Two-hour periods, five times a week. Fall, Winter and Spring terms. One-half unit's credit.

MISS RAFFERTY
MANUAL ARTS

1 a, b, c. High School Shopwork. (a) Woodturning; practice in spindle, face plate, and chuck work. (b) Bench work; design construction, and finishing of simple furniture; or, (c) elementary pattern making. Mechanical drawing 8, 9, 10 prerequisite. Fall, Winter and Spring terms. Material fee, $2.00 each term. One unit's credit.

MR. SHERWOOD, MR. WEAVER

8, 9, 10. Mechanical Drawing. Fall, Winter and Spring terms. One unit's credit.

MR. HUFF

MUSIC

1 a, b, c. High School Music. This course is open to students in the high school only. It consists in the cultivation of the voice, sight singing, three part singing, and lessons in appreciation of music. Emphasis is laid upon good tones, clear enunciation, and artistic interpretation of songs studied. Use is made of the Victrola, three-part songs, and folk songs. The text used is the Laurel Song Book. Fall, Winter and Spring terms. One unit's credit.

MRS. HILLIARD

COMMERCE

1 a, b, c. Commercial Arithmetic. An arithmetical study of business processes. The course combines drill in fundamental processes and short methods, with trading activities such as merchandise, expenses, banking, insurance and costs. Prerequisite for all other commercial courses. Fall, Winter and Spring terms. One unit's credit.

MISS WICK

2 a, b, c. Bookkeeping. 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. Fall, Winter and Spring terms. One unit's credit.

MISS WICK

3 a, b, c. Typing. The course aims at a complete mastery of the keyboard, and the ability to write from copy at a moderate rate of speed. Very little, if any, machine dictation will be used. Fall, Winter and Spring terms. One-half unit's credit.

MISS WATSON

3 a, b, c. Elementary Shorthand. Consecutive work covering one year. The aim of the course is the mastery of the
principles of the Gregg system of shorthand. Junior elective. Fall, Winter and Spring terms. One unit's credit.

MISS WATSON

4 a, b, c. Advanced Shorthand. This course includes the reading of shorthand plates and the writing of dictated material. Its purpose is the acquirement of speed in taking dictation, and accuracy in transcription. Prerequisite, shorthand, 3 a, b, c. Senior elective. Fall, Winter and Spring terms. One unit's credit.

MISS WATSON

PHYSICAL EDUCATION FOR GIRLS

*1, 2, 3. High School Class. This class meets twice a week for general gymnastics, heavy apparatus work, folk dancing, and organized games. Fall, Winter and Spring terms.

MISS HUSSEY, MISS WORNER

PHYSICAL EDUCATION FOR BOYS

*1, 2, 3. High School Class. This class meets twice a week for Physical Education.

MR. HYAMES

*Required in all High School Courses.
WESTERN NORMAL HIGH SCHOOL.
THE PHYSICAL EDUCATION "ZEPHYRS."
Roster of Students

BACHELOR OF ARTS

FOURTH YEAR

Addington, Cecil... Rapid City
Baribeau, Claude. Grand Rapids
Braybrooks, Dale... Kalamazoo
Cansfield, Helen... Bay City
Carpenter, Harry... Kalamazoo
Clark, Lynn.... Constantine
Cryan, Mary..... Kalamazoo
Custer, Ode...... Muskegon
Drake, Oscar..... Kalamazoo
Fitch, Ernest...... Ludington
Freeman, Alvin... Mt. Pleasant
Galleher, Ethel... Three Rivers
Gill, John...... Lansing
Godshalk, Letha... Vicksburg
Hicks, Hazel....... Gobles
Hodgson, Sr. M. Alice... Nazareth
Klein, Sr. M. Pius... Nazareth
Lane, Gilman... Kalamazoo
Laughlin, Eleanor... Negaunee
McCann, Bernard... Lansing
McCarthy, Sr. M. Barbara... Kalamazoo
McGoff, Sr. M. Baptista... Kalamazoo
McKay, Louis... Grand Rapids
Mitchell, Winifred.... Vicksburg
Montel, Denise... Marseilles, France
Munn, Leal....... Vicksburg
Phillips, Clarence.... Kalamazoo
Price, Carl....... Kalamazoo
Redmond, C. Leo... Kalamazoo
Rolfe, Victor....... Kalamazoo
Spear, Marvin..... Kalamazoo
Spoor, Leslie...... Kalamazoo
Stevens, Hazel... Kalamazoo
Thompson, Marie..... Cedar Springs
Townsend, H. Dale..... Kalamazoo
VandeLuyster, Nelson... Zeeland
Vogt, Thelma... Benton Harbor
Walker, George..... Gobles
Webber, Ernest..... Coloma
Wyatt, Robert...... Rudyard

THIRD YEAR

Abbott, Ethel....... Comstock
Barton, Theodore.... Mears
Beall, Margaret.... Wayland
Bean, Carl......... Conklin
Beery, Viola...... Kalamazoo
Bellows, Arline... Rockford
Bigelow, Marlin... Kalamazoo
Blakeslee, Theodore... Kalamazoo
Boudeman, Ilia... Kalamazoo
Bowman, Lois... Battle Creek
Boynton, James... St. Ignace
Burkhard, Florence... St. Joseph
Burnham, Merrill... Petoskey
Campbell, Marion... Hancock
Clark, Mrs. Ruth........ Constantine
Clifford, Roy......... Lansing
Coller, Ruth......... Ceresco
Cooley, Gertrude..... Battle Creek
Cornwell, Walter..... Grand Rapids
Cousino, Sr. M. Leo.... Nazareth
Cruit, Frances...... Kalamazoo
Dilts, Adda........ Kalamazoo
Dixson, Clifford..... Morenci
Doxey, Glenda...... Shelbyville
Doxey, Hazel........ Shelbyville
Drach, Florence..... Coloma
Drummond, Marion K... Casnovia
Dunlap, Eleanor...... Detroit
Ellenwood, Katheryne... Kalamazoo
Frazee, Hazel...... Kalamazoo
Fulkerson, Marion.... Olivet
Garthe, Anna....... Northport
Griggs, Paul........ Kalamazoo
Harper, Alice....... Calumet
Harroun, W. Harry... Belding
Hartzell, Helen...... Kalamazoo
Harvey, H. Loree..... Kalamazoo
Hastings, Sr. M. Edward... Kalamazoo
Honeysette, Bethel... Kalamazoo
Hooper, Gordon...... Marcellus
Hubbard, Eugene.... Merrill
Hyames, Judson...... Kalamazoo
Ingerson, Lillian.... Kalamazoo
Johnson, Mrs. Thos... Kalamazoo
Johnson, Thomas..... Kalamazoo
Jones, Helen........ Kalamazoo
Kanters, Elizabeth... Kalamazoo
Kellogg, Robert..... Marcellus
Kline, Ada.......... Kalamazoo
Kurtz, Mabel........ Allegan
Lautner, Laura...... Traverse City
Levey, Glenn.......... Elsie
Light, Rudolph...... Dayton, Ohio
Lull, Lynn.......... Benton Harbor
McCafferty, Mrs. Ruth... Kalamazoo
McCaffrey, Irene..... Marshall
McCloe, Hildred...... Hillsdale
McNeal, Ina........ Grand Rapids
Messenger, Carroll... Lansing
Miller, Robert...... Kalamazoo
Miller, Rudel....... Kalamazoo
Morton, Montell..... Dowagiac
Moser, Lawrence..... Kalamazoo
Norcross, Luella..... Tempe, Ariz.
Nutt, Hiram......... Muskegon
Oakes, Edwin........ Grand Haven
O'Beirne, Grace..... Muir
Osborn, Meida....... Scotts
Fergament, Arthur... Detroit
Peters, Ethel....... Kalamazoo
Pitcher, Prudence... Sister Lakes
Potter, Harry...... Manistique
Robinson, Berton..... Kalamazoo
Rode, Fred......... Hartford
Russin, Luella...... Otsego
Sagers, Lee......... Kalamazoo
Schroder, Donald..... Kalamazoo
Schroder, Lovella... Kalamazoo
Sedelbauer, Doris.... Grand Rapids
Slote, Fanny...... Constantine
Smith, George..... Three Rivers
Sprague, Ethel..... Vermontville
Starring, Charles...... Kalamazoo
Sterner, Lewis...... Kalamazoo
Stinson, Walter..... Casnovia
Stocking, Cynthia... Kalamazoo
Struble, Mrs. Louise... Galesburg
Tallman, Ruby...... Shelbyville
Tenney, Ross....... Big Rapids
Thompson, Mabel..... Kalamazoo
VanKersen, Lionel... Muskegon
VanOstrand, Barbara... Vermillion, S. D.
VanVolkenburg, Ned..... Kalamazoo
VanWingen, Martin... Grand Rapids
<table>
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Gemrich, Ruth ..... Kalamazoo
Gephart, Karrell .... Morenci
Gerke, Ernest ....... Lansing
Gibbs, Carroll ....... Bellevue
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Payne, Beatrice . . . . Casnovia
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Whalen, Mac ............... Kalamazoo
Whalen, Verna ............. Niles
Weaton, Clare ............. Ionia
Wheeler, Vera ............. Bloomingdale
Whelan, Sr. M. Kevin .... Kalamazoo
Whidby, Glenn ............. Delton
Whipple, Julia ............ Saugatuck
White, Margaret .... Coloma
Whitlock, Helen .......... Richland
Wiessner, James .......... Kalamazoo
Wilber, Harold ............ Athens
Wilcox, Beatrice .......... Shelbyville
Wilcox, Naurine .......... Allegan
Wilde, Mary ............... Grand Rapids

FIRST YEAR

Acker, Thera ............ Battle Creek
Ackerman, Nora ........ Durand
Adriance, Ruby .......... Paw Paw
Affholder, Mrs. Stella .... Kalamazoo
Agar, John ............... Kalamazoo
Alber, Florence .......... Ann Arbor
Aldus, Harry ............ Holland
Alford, Arthur .......... Vulcan
Allen, AVALYN .......... Bradley
Allen, Jessie ............. White Pigeon
Allen, Leone ............. Ovid
Allen, Maurice .......... Lum
Allen, Naomi .......... Kalamazoo
Allison, Mata ............ Grant
Anderson, Cleo .......... Kalamazoo
Anderson, LaVerna ........ Kent City
Andreasen, Meta .......... Greenville
Andrews, Mabel .......... Sodus
Archer, Marjorie .... Constantine
Ardis, Alta ............... Lake City
Arndt, Mildred .......... Evart
Arnold, Frances .......... Allegan

SECOND YEAR

Wildern, Audrey .......... Charlotte
Willard, Elizabeth .... Canton, Ohio
Williams, Elizabeth .... Kalamazoo
Williams, Vern .......... Battle Creek
Williams, Winifred .......... Vicksburg
Wilson, Bessie .......... Munith
Wilson, DeMaris ......... Grand Rapids
Wilson, Ethel .......... Caledonia
Wilson, Kathryn .......... Belding
Winegarden, Russell .... Benton Harbor
Wisner, Frances .......... Athens
Wood, Marguerite .......... Hastings
Wright, Marie .......... Grand Rapids
York, Fern ........ Kalamazoo
York, Florence .......... Kalamazoo
Yost, Arthur .......... Middleton
Yount, Doris .......... Kendall
Zapf, Frieda .......... Monroe
Zielie, Lillian .......... Mattawan
Akins, Warren .......... Augusta
Atkinson, Grace .......... East Jordan
Aue, Elsa .......... Muskegon
Austin, Althea .......... Laingsburg
Austin, Pauline .......... Lansing
Bacheller, Charles .......... Hastings
Bacheller, Raymond .......... Hastings
Bailey, Charles .......... Petoskey
Bailey, Kathryn .......... Hartford
Bailey, Marland .......... Kalamazoo
Bailey, Perry .......... Carson City
Baker, Albert .......... Kalamazoo
Baker, Cecil .......... Coloma
Baker, Noel .......... St. Joseph
Balls, Henry ........ Richland
Banta, Marian .......... Breedsville
Barber, Marjorie .......... Augusta
Barmore, Eleanor .......... Petoskey
Barnebee, Delelle .......... Mendon
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Greenman, Dorothy...Albion
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Grenell, Ruth...Marcellus
Griffith, Corinne...Grand Rapids
Griffith, Elwood...McBride
Griffith, Lyle...Eaton Rapids
Gripman, Miriam...Coldwater
Gross, Lueen...Bangor
Grush, Maggie...Three Rivers
Gunther, Cyretta...Bay City
Guy, Frances...Albion
Gwatkin, Mary...Battle Creek
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Haas, Ilah...Vicksburg
Hagelin, Elinor...Montague
Hall, Edith...Buchanan
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Hammer, Floy...Rockford
Handley, Leo...Alma
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Hansen, Helen...Trufant
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Harrington, Frederick...Bay City
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Hart, Wilma...Pioneer, Ohio
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Hawkins, Mildred...Manistee
Hawley, Bertha...Shelby
Hawley, Edith...Hart
Haynes, Genevieve...Muskogon Heights
Hearn, Norwood...Amherst, Ohio
Heeg, Marion...Shelby
Hendershop, Minga...Grand Rapids
Hennessey, Bernice...Doster
Herrington, Dan...Petoskey
Hess, Oscar...Galien
Heying, A. C...Stockbridge
Hibbard, Fannie...Climax
Hicks, Dorothy...Albion
Hiestand, Arthur...Otsego
Hiestand, Lester...Otsego
Hilbert, Russell...Wayland
Hileman, Velda...Constantine
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Hill, Cora...Plainwell
Hill, Esther...Kalamazoo
Hill, May...Grant
Hillman, Helen...Allegan
Himebaugh, Lillian...Mendon
Hinckley, Avanella...Paw Paw
Hinckley, Ruth...Paw Paw
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Hirsch, Edna...Benton Harbor
Hitchcock, Mildred...Wayland
Hoag, Neva...Grand Junction
Hodge, Muriel...Kalamazoo
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Hoffman, Ruth...South Haven
Hollonpieter, Fayma...Topeka, Ind.
Hoover, Christa...East Jordan
Hoover, Pauline...East Jordan
Hopkins, Frances...Kalamazoo
Horn, Leora...Charlotte
Horton, Mary...Marcellus
Hotchkiss, Charles...Kalamazoo
Housler, Ruth...Coopersville
Hoven, Florence...Three Oaks
Howard, Gerald...Moore Park
Howard, George...Holland
Howard, Irma...Lowell
Howe, Jennie...Buchanan
Hubbard, Dorothy...Merrill
Hubbard, Norma...Grand Rapids
Hudson, Mrs. Doris...Kalamazoo
Huizenga, Kathryn...Grand Rapids
Husselman, Herbert...Grand Rapids
Hutchins, Beatrice...Marshall
Hutchinson, Opal...Three Oaks
Ingles, Eugene...Galien
Irving, Isabelle...Grand Rapids
Jackson, Fannie...East Jordan
Jacobs, Berthice...Battle Creek
Jacokes, Leo...Fremont
James, Greta .......... Hastings
Jenkins, Clarice ....... Grand Rapids
Jennings, Dorothy .... Three Rivers
Jensen, Clarence ......... Gibson City, Ill.
Johncock, Emma .......... Delton
Johnson, Elsie ........ East Jordan
Johnson, Esther .......... Marne
Johnson, Mina ....... Kalamazoo
Johnson, Neal .......... Fremont
Johnson, Niamie ....... Norway
Johnson, Vera .......... Wakefield
Johnson, Warren E .... Swanson
Johnson, Warren H ......... Kalamazoo
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Jones, Virginia ........ Grand Rapids
Justin, Vierna ....... Grand Rapids
Kapp, Bernard ........ Three Rivers
Keef er, Ivan ........ Morenci
Keifer, Bessie .......... Marshall
Keizer, James .......... Comstock
Kelley, Eliza ......... Galien
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Kennedy, Margaret ....... Kalamazoo
Kenyon, Allyne .......... Comstock
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Kiel, Gladys .......... Lowell
Kimmel, Madge .......... Montgomery
King, Peter ............... Sturgis
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Kline, Mary .............. Kalamazoo
Kling, Louise .......... Three Oaks
Klock, Edward .......... Hartford
Knapp, Delphine .......... Benton Harbor
Knight, Geraldine ........ Battle Creek
Knight, Leatha .... Benton Harbor
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Kolvoord, Anna .......... Augusta
Kossen, Johanna ....... Zeeland
Kramer, Mildred .......... Belding
Kraus, Gladys ....... Grand Rapids
Kruger, Geneva .......... Kalamazoo
Krugh, Mary .......... Howe, Ind.
Kronke, Joseph .......... Kalamazoo
Lageson, Esther .......... Pentwater
Lahr, Roy ............... Mayville
Lamb, Randall .......... Cass City
Lambrix, Norma .......... Pentwater
Lammers, Gertrude ...... Sodus
Lanius, Carman .......... Camden
Lax, Eva ............... Lowell
Larsen, Arthur .......... Coloma
Larsen, Orpha .......... Gowen
Last, Fredreka .......... Fremont
Lather, Lucy .......... Traverse City
Lathrop, Orrin .......... Kalamazoo
Lawrence, C Wallace .... Kalamazoo
Leach, Mona .......... Lansing
Leary, Gladys .......... Saranac
Leckrone, Ivan .......... Brethren
Lee, Harry .............. Niles
Lee, Ralph .......... Sault Ste. Marie
Lee, Wilma .......... Marcellus
Lemoin, David .......... Lawton
Leonard, Clarence ...... Coloma
Leonard, Hazel .......... Paw Paw
Leonard, Noble .......... Battle Creek
Leonard, Ruth .......... Alden
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Liechty, Willard ........ Wabash, Ind.
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Lilly, Wanda .......... Kalamazoo
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Lindsley, Lucille ....... Lawrence
Litchfield, Lee .......... Elsie
Little, Frances .......... Kalamazoo
Logan, Alpha .......... Lawrence
Logie, Edward .......... Pontiac
Lohrke, Elizabeth ..... Albion
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Long, Mary .......... Byron Center
Longman, Vivian .......... Climax
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Lung, Christine . . . . . Kalamazoo
Luzinsky, Neva . . . . . Kalamazoo
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McClatchie, Laurence . . . Ludington
McClellan, Margaret . . . New London
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McDole, Margaret . . . Lakeview
McDowell, Mildred . . . Kalamazoo
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McIntyre, Mrs. Edna . . . Scotts
McJury, Zella . . . . . Three Rivers
McKinlay, Norie . . . . . Grant
McMaster, Mable . . . . . Ovid
McMullen, Sylvester . . . Midland
McTiver, Annie . . . . . Newberry
MacIntyre, Lucille . . . Big Rapids
Mack, Thelma . . . . . . . . Portland
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MacKenzie, Alexandra . . . Cass City
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MacLennan, Marion . . . . Bellevue
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Maikowski, Norma . . . Watervliet
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Miller, Wana . . . . . . . . Cassopolis
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Mitchell, Helen . . . . Boyne City
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Mulder, Gertrude . . . . Grand Rapids
Muldoon, Emily . . . . . Grand Rapids
Muller, Herald . . . . . Grand Haven
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Munn, Mercer . . . . . Vicksburg
Murray, Huldah . . . . . Shipshewana, Ind.
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Thayer, Mae........ Kalamazoo
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Tooker, Erma belle... Wayland
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Zerlaut, Helen ........ Grant
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Ness, Nina ........ Kalamazoo
Noble, Frank ..... Kalamazoo
Palmenter, Sr. M. Euphemia .... Kalamazoo
Schuur, Anna .... Kalamazoo
Stapert, Osborn .... Kalamazoo
Stevenson, Walter .. Casnovia
Sturgis, C ........ Allegan
Travis, Armond .. Kalamazoo
VanHaaften, Richard ..... Kalamazoo
Welch, Murielle .... Kalamazoo

NORMAL HIGH SCHOOL

TWELFTH GRADE

Barnes, Helen
Berry, Earl
Bigelow, Pauline
Bills, Harold
Boylan, Frances
Braden, Christine
Brazill, Thomas
Burdick, Marie
Butler, Earl
Butler, Gladys
Callahan, Alice
Clapp, Hillard
Comstock, Ruth
Diller, Willis
Doxey, Doris
Everett, Kathryn
Fleck, Harold
Fooy, William
Fredenburg, Elwin
Gideon, Elizabeth
Gilbert, Kathryn
Gideon, Howard

Hall, Evelyn
Hoard, Florence
Hotop, Norbert
Hough, Marva
Husselman, Herbert
Jeanette, Theresa
Kloosterman, Mabel
Kolloff, Marion
Lewis, Edith
Luce, Duane
McHugh, Ted
Martens, Harold
Meeker, Ted
Miller, Albert
O'Connell, Marguerite
O'Meara, Joe
Patterson, Donald
Peet, George
Peterson, Anne
Pratt, Margaret
Ransom, Theone
Rappaport, Oscar
Rea, Pauline
Scheid, Louis
Sears, Virgil
Slager, Stella
Slye, Lyle
Smith, Allan

Smith, Milburn
VerCleia, Nell
Weed, Nathan
Wetherbee, Winfred
Whipple, Cecile
Wyman, Mildred

ELEVENTH GRADE

Baker, Laura
Barrett, Donald
Beery, Bernice
Blair, Elsa
Blakeslee, Millicent
Boyce, Grace
Boys, Lawrence
Cross, Nelson
Davis, Barbara
DeCair, Theodore
Diller, Evelyn
Dunkley, Frances
Estes, King
Dustin, Evelyn
Foy, Emma
Fornoff, Raymond
Gallup, Roberta
Gilbert, Pauline
Gorham, Elizabeth
Harrington, Donna
Havens, Harold
Heidanus, Katherine
Heller, Ernest
Hess, Clarence
Hinckley, Helen
Holt, Ruth
Hoyt, Cecyl
Huested, Maurine

Huntley, Redmond
Kelly, Adren
Lambeek, Euna
Lynn, Walter
MacPherson, Virginia
McDowell, Harriet
Martens, Lois
Martin, Evelyn
McMillen, Helen
Page, Glenn
Patterson, Jean
Prange, Horace
Ransom, Ruth
Rappaport, David
Renwick, Grace
Rockwell, Edith
Sheldon, Clare
Stroberg, Glenn
Swift, Roger
Swift, Ruth
Thoms, Ruth
Updike, Marion
Whetham, Louis
Watson, Minnie
Wigginton, George
Wildermuth, Genevieve
Wooden, Jack

TENTH GRADE

Acker, Phyllis
Adriance, Helen
Anway, Hartwell
Appeldoorn, Helen
Baker, Edith
Baker, Lester
Beery, Marjorie
Bennett, Alice

Biddlecome, Harley
Bourner, Bertha
Bryant, Helen
Campbell, Jean
Carney, Wade
Chase, Alfred
Connable, Horace
Crisman, Golda
ROSTER OF STUDENTS

Curry, Albert
DeCrocker, Etta
Den Bleyker, Allen
DeYoung, Carrie
Dunkley, Sam
Dutton, Dorothy
Elkerton, Rosabelle
Ellsworth, Ruth
Foard, William
Fouch, Virginia
Goodenough, Vera
Gould, Leslie
Heiber, Thelma
Hill, Jerald
Hough, William
Jackson, Howard
Jones, Clyde
Jones, Helen
Jones, Irene
Kinch, Marion
Leamy, Francis
Lewis, Stephen
McMurray, Laura
Meyer, Theresa
Nevins, Frances

Oatman, Albert
Owen, Lillian
Parker, Harriet
Parkhurst, Clyde
Parkhurst, Pontotoc
Pierce, Donald
Randall, Henry
Randall, William
Ransom, Woodbury
Schau, Josephine
Scheid, Charles
Scott, James
Sergeant, Albert
Simmons, Maurice
Smith, Marian
Snow, Carl
Snyder, Marcia
Sprau, Louise
Waltz, Clarence
Webster, Frances
Westerville, Henry
Wooden, Kenneth
Young, Nelson
Zepernick, Violet

NINTH GRADE

Abraham, Lucile
Bartlett, Florence
Baker, Harold
Baker, Wesley
Blair, Elizabeth
Blodgett, Virginia
Bohnet, Raymond
Bollinger, Dorothy
Brazill, Ethel
Brown, Ruth
Buckhout, Erma
Bushouse, Claus
Chatelain, Margaret
Coble, Paul
Cross, Dorothy
Curtenius, Frederick
Cushman, Martelle
Davis, Wallace
Davis, William
DeYoung, John

Dustin, Orrin
Elsey, John
Foard, Victor
Gaudie, Gilbert
Godfrey, Robert
Haas, Rosamond
Jacobs, Annie
Jensen, Dorothy
Kettle, Eleanor
Kitzmiller, Mildred
Kolloff, Harold
Kramb, Maxine
Moran, Ellsworth
Nelson, Laban
Noble, Grace
Parker, Marion
Perry, Florence
Perry, Naoma
Peters, Francetta
Preston, Carl H
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**SUMMARY OF ENROLLMENT 1922-1923**

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<td>A. Summer Term, 1922</td>
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<td>B. Fall, Winter and Spring Terms, 1922-1923</td>
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<td>A.B. Fourth Year</td>
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<td>A.B. Second Year</td>
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<td>A.B. First Year</td>
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<td>Life Certificate—Second Year</td>
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<td>Life and Limited Certificate—First Year</td>
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<td>Unclassified</td>
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<td>C. Grand Total of Enrollment</td>
<td>3,679</td>
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<td>D. Names appearing twice</td>
<td>210</td>
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<tr>
<td>E. Total number of different Normal Students</td>
<td>3,469</td>
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<tr>
<td>F. Total Number of Normal High School Students</td>
<td>233</td>
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<tr>
<td>G. Grand Total</td>
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