1920

16th Annual Year Book Western State Normal School 1919-20

Western Michigan University
16th Annual Year Book

Western State Normal School

1919-20

INCLUDING

Announcements for 1920-21

AND

REGISTER OF STUDENTS

KALAMAZOO, MICHIGAN

1920
Western State Normal School

Dwight B. Waldo, A. M., LL. D., President

STATE BOARD OF EDUCATION

Hon. Frank Cody .................................. President
Hon. A. M. Freeland ................................. Vice-President
Hon. T. E. Johnson .................................. Secretary
Hon. F. A. Jeffers ....................................

Hon. T. E. Johnson
State Superintendent of Public Instruction.

Regular meeting of the Board last Friday of each month.
### March 1921

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### School Calendar for 1920-21

(Holidays are printed in full-face type)

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Western State Normal School

ANNOUNCEMENTS FOR 1920-1921

1920

Sunday, June 20..............................Baccalaureate Address
Monday, June 21..............................Alumni Day
Tuesday, June 22..............................Commencement

SUMMER TERM

Monday, June 28..............................Registration of Students
Tuesday, June 29..............................Recitations Begin
Friday, August 6..............................Summer Term Closes

FALL TERM

Friday and Saturday, September 24 and 25. Registration of Students
Monday, September 27........................Recitations Begin
Saturday, October 2........................Faculty Reception to Students
Thursday, November 25......................Thanksgiving Recess
Friday, December 17........................Fall Term Closes

1921

WINTER TERM

Monday, January 3..............................Winter Term Begins
Friday, March 25..............................Winter Term Closes

SPRING TERM

Monday, April 4..............................Spring Term Begins
Friday, June 17..............................Class Day
Sunday, June 19..............................Baccalaureate Address
Monday, June 20..............................Alumni Day
Tuesday, June 21..............................Commencement

SUMMER TERM

Monday, June 27..............................Summer Term Begins
Friday, August 5..............................Summer Term Ends

FALL TERM

Monday, September 26........................Fall Term Begins
Social Calendar, 1920-1921

FALL TERM, 1920

Saturday, October 2 ................ Faculty Reception to Students
Friday, October 15 .................. Student Party
Thursday, October 21 ............... Practice Teachers' Tea
Friday, November 5 ................ Student Party
Saturday, November 6 .............. High School Party
Thursday, November 18 ............. Gymnasium Party
Wednesday, December 1 ........... Men's Supper
Friday, December 3 ................. Senior Party to Juniors
Monday, December 6 ............... High School Play
Sunday, December 12 .............. Annual Presentation of Handel's "Messiah"

WINTER TERM, 1921

Friday, January 14 .................. Student Party
Thursday, January 27 ............... Practice Teachers' Tea
Thursday, February 3 .............. Gymnasium Party
Friday, February 11 ................. Student Party
Saturday, February 12 ............. High School Party
Wednesday, February 16 .......... Midwinter Play
Friday, March 4 ..................... High School Parent-Teacher Meeting
Friday, March 11 ................... Rural Progress Day
Friday, March 11 ................... Student Party

SPRING TERM, 1921

Friday, April 15 ..................... Junior Party to Seniors
Thursday, April 21 ................. Practice Teachers' Tea
Thursday, April 28 ................ Arbor Day
May ................................... Seventh Annual May Festival
(Date to be Announced Later)
Friday, May 6 ....................... Student Party
Saturday, May 14 ................... High School Party
Friday, May 27 ...................... Glee Club Concert
Saturday, June 11. Senior Girls' Breakfast
Thursday, June 16. High School Commencement
Friday, June 17. Class Play
Monday, June 20. Alumni Party
Tuesday, June 21. Commencement, 10 o'clock
Tuesday, June 21. Commencement Luncheon, 12 o'clock
Y. W. C. A. Meetings, Wednesdays at 4 o'clock, Student Club Room.
Faculty

DWIGHT B. WALDO, A. M., LL. D..............157 Thompson St.  
President.

*MAUDE BERGEN, B. S..........................616 Locust St.  
Household Arts.

AMELIA BISCOMB, A. B.......................226 W. Cedar St.  
English.

ALICE BLAIR, B. S............................427 Woodward Ave.  
Household Arts.

HAROLD BLAIR, B. S.........................1220 Academy St.  
Mathematics.

WILLIAM R. BROWN, Ph. D...................518 Minor Ave.  
English.

ERNEST BURNHAM, Ph. D........................1532 Grand Ave.  
Director Department of Rural Education.

†MARGARET E. BURNHAM, A. B..............134 S. Prairie Ave.  
History.

SMITH BURNHAM, A. M........................134 S. Prairie Ave.  
History.

†WILLIAM H. CAIN, A. B......................411 W. Dutton St.  
Mathematics. Principal of the High School.

BERTHA S. DAVIS..............................1219 Jefferson Ave.  
Dean of Women.

HOMER A. DES MARAIS, A. M.................1209 S. West St.  
French and Spanish.

JOHN P. EVERETT, A. M......................903 W. South St.  
Mathematics.

JOHN E. FOX, A. M............................605 W. Vine St.  
Physics.

*LUCY GAGE...............................603 Academy St.  
Early Elementary Education.

EMELIA M. GOLDSWORTHY...................105 W. Dutton St.  
Public School Art.

*Resigned.
†Term begins 1920-21.
FACULTY

‡HARRY P. GREENWALL, A. B. .................. Y. M. C. A. Penmanship.

GERMAINE GUIOT .................................. 510 W. Walnut St.
                                                                 Physical Education.

THEODOSIA HADLEY, M. S. ........................ 416 Locust St.
                                                                 Agriculture.

LUCIA C. HARRISON, M. S. ..................... 521 W. Lovell St.
                                                                 Geography.

LEROY H. HARVEY, Ph. D. ..................... 204 Monroe St.
                                                                 Biology.

FRANCES HASKELL ............................. 120 Thompson St.
                                                                 Physical Education.

H. GLENN HENDERSON ......................... 838 W. Lovell St.
                                                                 Public School Music.

THEODORE S. HENRY, Ph. D. .................. 1410 Hillcrest
                                                                 Education.

M. AMELIA HOCKENBERRY, A. B. .............. 723 W. Lovell St.
                                                                 French.

JOHN C. HOEKJE, A. B. ........................ 301 W. Dutton St.
                                                                 Education.

CLYDE HUFF, A. B. ............................... 411 W. Dutton St.
                                                                 Commerce.

‡FRED HUFF, A. B. .............................. 303 Oakland Drive
                                                                 Industrial Arts.

DORIS HUSSEY ........................................ 616 S. Westnedge St.
                                                                 Physical Education.

‡JUDSON A. HYAMES .............................. 2252 Oakland Drive

ELEANOR JUDSON .................................... 623 W. South St.
                                                                 Public School Art.

‡FRANCES KERN, B. S. ............................ Early Elementary Education.

‡MARVEL LIDDY ................................... 318 Woodward Ave.
                                                                 Public School Music.

ARTHUR L. LORING, A. B. ..................... Commerce.

*VERA LUTJE, A. B. ............................. 202 E. Lovell St.
                                                                 History.

‡WILLIAM McCracken, Ph. D. .................. 918 Academy St.
                                                                 Chemistry.

*Resigned.
‡Term begins 1920-21.
‡Absent on leave 1920-21.
DOROTHEA MATTESON, B. S. ............................... Household Arts.
FLOYD W. MOORE, A. B. ........................... 1320 Maple St. Economics and History.
MARY MOORE ........................................ 220 Elm St. Household Arts.
MARY MUNRO, Ph. B. ............................... 709 Hawley St. Rural Education.
‡ROSE NETZORG ................................. 538 W. Cedar St. Public School Art.
JESSE A. PLACE, A. M. ........................... 1408 Hillcrest Biology.
ELEANOR RAWLINSON ............................... 435 Woodward English.
HERBERT W. READ ................................. Y. M. C. A. Physical Education.
SAMUEL RENSHAW, A. B. ........................ 420 W. Cedar St. Education.
PAUL ROOD, A. B. ................................. 715 W. South Physics.
*DOROTHEA SAGE ................................. 511 Woodward Ave. Public School Music.
LAURA V. SHAW, A. M. ............................ 721 W. South St. Speech.
MARION J. SHERWOOD, B. S. .............. 1936 Oakland Drive Industrial Arts.
*OLIVE SMITH, A. M. ............................ 315 W. Walnut St. English.
MARIAN SPALDING ................................. 729 Walwood Place Physical Education.
WILLIAM H. SPAULDING, A. B. ............. 1337 Hillcrest Director of Athletics.

*Resigned.
†Term begins 1920-21.
‡Absent on leave 1920-21.
MARGARET SPENCER, A. B. ............ 710 W. Lovell St.
    Public School Art.

LAVINA SPINDLER ....................... 827 S. Park St.
    Education.

GEORGE SPRAU, A. M ................... 949 Walwood Place
    English.

ELAINE STEVENSON .................... 301 Woodward Ave.
    Public School Art.

LAURENCE TAYLOR ..................... 2212 Glenwood Drive
    Physical Education.

MABEL THIELEMAN ..................... 132 Catherine St.
    Household Arts.

ELMER WEAVER ......................... 1915 W. Main St.
    Industrial Arts

†CORDELIA WICK ........................ Commerce

LESLIE H. WOOD, A. M .................. 1210 Academy St.
    Geography.

ELIZABETH ZIMMERMAN, A. M ....... 435 Woodward Ave.
    Latin and German.

TRAINING SCHOOL.

FRANK E. ELLSWORTH, A. B ........... 910 W. Lovell St.
    Director.

†LAVERNE ARGABRIGHT .................. 427 Woodward Ave.
    Critic.

HELEN BARTON, A. B ................... 301 Woodward Ave.
    Critic.

†FANNIE BALLOU ....................... 723 W. Lovell St.
    Critic.

†JANE BLACKBURN, B. S ............... Critic.

†MINNIE CAMPBELL ..................... 409 Pearl St.
    Critic.

LEOTI COMBS .......................... 809 Wheaton Ave.
    Public School Music.

VERLE F. COPPENS, B. S ............. 828 W. Kalamazoo Ave.
    Critic.

†Term begins 1920-21.
‡Absent on leave 1920-21.
RUTH MILLER, A. B. ...................... 906 W. Lovell St.  
Critic.

KATHERINE MULRY, B. S. ................ 735 Academy St.  
Critic.

†IDA O. RUDY, B. S. ..........................  
Critic.

‡EDITH SEEKEL ............................ 1127 Newell Place  
Critic.

LOUISE STEINWAY, B. S. .................. 838 W. Lovell St.  
Critic.

RURAL SCHOOL CRITICS

†INA KELLY .............................................
†EDNA OTIS ............................................
CLEORA SKINNER ................................. R. F. D. No. 9
*MILDRED B. WILLIAMS, A. B. ............. 227 Douglas Ave.
*FLORENCE WOOD ............................... 508 Douglas Ave.

LIBRARY

ANNA L. FRENCH ................................. Rural Route 8
MARY E. F. McMANIS ........................... 1340 Oakland Drive
ATTA CHAPMAN .................................... 132 S. Prairie Ave.

OFFICES

EUGENE D. PENNELL, Sec.-Registrar ...... 775 West South St.
NATALIE E. MURPHY, A. B. ................. 414 Locust St.
BERNICE HESSELINK ............................ 506 Village St.
MARIE COULTER COLE ......................... 103 West Dutton St.
IRENE HALL .................................. 117 den Blyker Ct.
LUCILLE FLEUGAL ................................ 810 Davis St.
LEAH SMITH ..................................... 701 Davis St.

†Term begins 1920-21.
‡Absent on leave 1920-21.
*Resigned.
Standing Committees, 1920-21

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

Appointment Committee—Ellsworth, E. Burnham, Henry, Davis, S. Burnham, F. Moore.

Assembly Exercises—Everett, Maybee, Shaw.

Athletics—S. Burnham, F. Moore.

Course of Study, Schedules, and Enrollment—Sprau.

2. Schedules—Hoekje.
3. Entrance Requirements—Brown, Munroe, H. Blair.
4. Extra Studies—Fox, Des Marais, Davis.
5. Course Advisors—
   A. General—Ellsworth, S. Burnham.
   B. Life Certificate—
      Early Elementary—Kern, Spindler.
      Later Elementary—Henry, Harrison.
      Rural—E. Burnham, Munro.
      Junior High School—Rawlinson, F. Moore.
      Senior High School—Fox, Zimmerman.
      Art—Goldsworthy, Judson.
      Music—Maybee.
      Household Arts—Blair, M. Moore.
      Industrial Arts—Sherwood, F. Huff.
      Commercial—Loring.
      Physical Education for Men—Taylor.
      Physical Education for Women—Guiot.
   C. Limited Certificate—E. Burnham, Munro.
   D. A.B. Degree—Sprau.
   E. High School—Cain.

Extension—Hoekje, Spindler, Henry.

Health—Harvey, Ellsworth, Davis, Guiot, Hadley.

Lectures and Entertainments—Zimmerman, Rawlinson, Maybee, Rousseau.

Social Life—Davis, Brown, Guiot, Shaw, Netzorg, Place, Weaver, Wood.

Student Organizations—
   Amphictyon Society—Shaw, Place, Thieleman.
   Normal Literary Society—Rousseau, Renshaw, Munro.
   Y. W. C. A.—Spindler, Hockenberry.
   Y. M. C. A.—Hoekje, C. Huff.
Western State Normal School

The 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 school.

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 Grand Rapids and Indiana, the Lake Shore and Michigan Southern, 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, the 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.

GROUND

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 School, and the Vine Street School, 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 new 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 new athletic field will be 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 many years by Mr. Gardner Eames. The new Industrial Arts building will be erected on the triangle consisting of the purchases referred to above.

BUILDINGS

The buildings are five in number, thoroughly 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. **Administrative 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, 9 ½ 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 Psychology and Geography. The Department of Biology is housed on the second floor, and on the third floor are classrooms and laboratories for the departments of Physics and Chemistry. The new building and its splendid equipment greatly increase the efficiency of the several departments of science.

5. **Industrial Arts.** The building recently purchased from Mr. Eames is at present the home of the Department of Indus-
trial Arts. This building is located on Oakland Drive just across the street from the Normal School campus. It consists of a large shop, a room for mechanical drawing, and several offices. It is in every way thoroughly equipped for first-class work.

GENERAL EQUIPMENT

The 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 classrooms 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 new Department of Commerce has adequate quarters 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.

Industrial Arts. The Department of Industrial Arts is well provided 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 vises for work in chipping and filing. The forge shop contains twelve down-draft forges and a combination shear and punch. The wood-turning and pattern-making room contain 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 new Science building has made possible vast improvements in the facilities for work in education and natural
science. More commodious quarters and more thorough equipment have immeasurably increased the general efficiency of the various departments.

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 upper story of the Science building. This consists of a lecture-room, two stockrooms, two large laboratories, a large dark room for photometric and spectrum work and photography, a smaller dark room for individual use, a shop, and an office where students may meet with the instructor for conferences. A complete equipment of apparatus for class demonstration and individual laboratory work has been added, including a motor generator for charging storage batteries, polariscopes, spectrometer, Geissler tubes, X-ray tubes, induction coil giving six-inch spark, wireless telegraphy, a supply of Weston standard meters for both direct and alternating current work, porte lumiere stereopticons and all other apparatus found in a first-class laboratory. The tables of the laboratories are each supplied with gas and with both direct and alternating current through double
Western Normal in Winter
pole switches from central switch boards. The shop for construction and repair of apparatus is equipped with workbench and complete set of tools. The large dark room is provided with double entrance so that students may leave and enter without disturbing any photographic work that may be in progress. This dark room is also thoroughly ventilated by a fan which is controlled by a switch installed in the dark room.

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, Franz Perimeter, Politzer Acoumeter, Cogan Prism Chart, 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 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 19,500 volumes, more than 1,500 having been added during the last year. 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 periodical 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 juniors. The reading-room walls are shelved with the files of bound magazines for reference work, and the periodical indexes are found in this room.

The use of the Kalamazoo Public Library, a comprehensive collection of 50,000 volumes, is generously 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:

American blacksmith American boy
Americas
*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
American mathematical monthly
American naturalist
American penman
American physical education review
American political science review
American school
American school board journal
American schoolmaster
*Annals of the American academy of political and social science
L'Annee psychologique
*Art and archaeology
Asia
*Atlantic educational journal.
Automobile dealer and repairer

Biological bulletin
Bird lore
Backwoods
Bookman
Book review digest
Botanical gazette
*Botanical abstracts
British bulletin of the Imperial institute
British journal of psychology
Bulletin of bibliography
Bulletin of the Pan-American union
Bulletin of the Torrey botanical club
Business educator
*Century
Chicago Herald-Examiner
Chicago Tribune
Classical journal
Classical philology
Classical weekly
Colliers
Colour
Commercial America
Contemporary verse
Costume royale
Country gentleman
Country life in America
Courrier des Etas-Unis
Current history magazine, New York Times
Current opinion
Delineator
*Diagonal
Dial
Drama
Edinburgh review
*Education
*Educational review
Electrical experimenter
Elementary school journal
*English journal
Etude
Eugenics review

Filing
Fortnightly review
*Forum
La France
Furniture manufacturer and artisan

General science quarterly
Geographical journal
*Geographical review
Good housekeeping
Gregg writer
Guide to nature
<table>
<thead>
<tr>
<th>*Harper's monthly magazine</th>
<th>Library journal</th>
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<tr>
<td>*Hibbert journal</td>
<td>Life</td>
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<tr>
<td>Hispanic</td>
<td>Literary digest</td>
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<td>Hispanic American historical review</td>
<td>Living age</td>
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<td>*Historical outlook</td>
<td>McCall's magazine</td>
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<td>House beautiful</td>
<td>Manchester guardian</td>
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<td>Illustrated London news</td>
<td>*Manual training and vocational education</td>
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<td>Illustrated milliner</td>
<td>*Mathematics teacher</td>
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<td>L'Illustration</td>
<td>*Mental hygiene</td>
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<td>Independent</td>
<td>Mexican review</td>
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<td>*Industrial arts magazine</td>
<td>Michigan farmer</td>
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<td>Industrial management</td>
<td>*Michigan history magazine</td>
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<td>International journal of ethics</td>
<td>Michigan tradesman</td>
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<td>International studio</td>
<td>Mind and body</td>
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<td>John Martin's book</td>
<td>Moderator topics</td>
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<td>Journal of abnormal psychology</td>
<td>Modern language journal</td>
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<td>Journal of accountancy</td>
<td>Modern language notes</td>
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<td>*Journal of agricultural research</td>
<td>Modern language review</td>
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<td>*Journal of American folk lore</td>
<td>Modern philology</td>
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<td>Journal of the American institute of criminal law and criminology</td>
<td>Modern Priscilla</td>
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<td>Journal of the American medical association</td>
<td>Monthly evening sky map</td>
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<td>*Journal of applied psychology</td>
<td>Motor age</td>
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<td>Journal of ecology</td>
<td>Musical America</td>
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<td>Journal of education</td>
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<td>*Journal of educational psychology</td>
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<td>*Journal of educational research</td>
<td>*Nation</td>
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<td>*Journal of geography</td>
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<td>Journal of geology</td>
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<td>Journal of heredity</td>
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<td>*Journal of home economics</td>
<td>Nature study review</td>
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<td>Journal of industrial and engineering chemistry</td>
<td>New phytologist</td>
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<td>Journal of philosophy, psychology and scientific method</td>
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<td>Journal of political economy</td>
<td>New York Times</td>
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<td>Keramic studio</td>
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<td>*Kindergarten and first grade</td>
<td>Normal instructor and primary plans</td>
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<td>*Pedagogical seminary</td>
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<td>Plant world</td>
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<td>Playground</td>
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Poet lore
Political science quarterly
*Popular science monthly
Poster
Primary education
Printing art
Proceedings of the academy of political science
*Psychological bulletin
*Psychological clinic
Psychological monographs
Psychological review
Public libraries
Punch

*Quarterly journal of speech education
Quarterly review

*Review
Review of reviews
Revue des deux mondes
Rhodora
Rural New Yorker

St. Nicholas
School and home education
*School and society
School arts magazine
School century
*School life
School music
School review

School science and mathematics
*Science
Science progress
Scientific American
*Scientific American magazine
*Scientific monthly
*Scribner’s magazine
Springfield republican
South American
*Supplementary education monographs
Survey
System

Table talk
Teachers college record
Teaching
*Theatre Arts
Theatre magazine
Torreya
Touchstone
Training school bulletin

*Ungraded
Unpartisan review

*Vocational summary
Vogue

*Woman citizen
*World’s work

Yale review
Youth’s companion
Activities and Organizations

MORNING 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 consist ordinarily 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.

SUPERVISION OF STUDENT LIFE

The social and moral welfare of women students is under direct supervision of the Dean of Women. She has prepared a list of addresses where rooms for young women may be obtained. All houses on the list have been inspected by her, and although responsibility for them cannot be assumed by the Normal School, they are believed to be suitable houses for women students. Copies of this list will be sent on application; however, it is advisable for students to see the rooms before engaging them.

Women students are expected to occupy rooms only in such rooming houses as accommodate women exclusively, and in which a parlor is provided for the reception of visitors; exceptions are made only by permission of the Dean of Women. Changes in rooming places may be made only with her approval.

All women students are required to report to the Dean of Women on entering the institution, in order that they may register their addresses, and may be directed if rooms have not been secured.

The Dean of Women wishes to be of real service to the young women, such as planning their courses of study, securing remunerative positions, etc. They are requested to report all cases of illness to her, and should consult her freely upon any topics that concern 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.

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 are expected to become members upon entering in the Fall Term. 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' CLUBROOM

A Students' Clubroom located in the Administration building is used by the young women for quiet study or rest between classes.

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 School. 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 1920 its number will exceed 2,900 and sixteen classes will be represented in the membership. Each year headquarters are maintained at the State Teachers' Association meeting, 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 endeavors 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.

ATHLETICS

The 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 depart-
ment 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. During the past two years the chorus has enlarged its scope of work by organizing and incorporating under the state law as the Kalamazoo Choral Union, with the object of cultivating the musical interests and general up-building of choral music in the Western State Normal School and the city of Kalamazoo, also to present eminent artists and orchestral organizations. During the past few years the following organizations have appeared:—The Minneapolis Symphony, Emil Oberhoffer, conductor; New York Symphony, Walter Damrosch, conductor; Chicago Symphony, Frederick Stock, conductor; Russian Symphony, Modest Altschuler, conductor; Philadelphia Symphony, Leopold Stokowski, conductor. Among the artists who have appeared are—sopranos—Amelita Galli-Curci, Louisa Tetrazzini, Mabel Garrison, Leonora Allen, Saba Doak, Marie Sundelius, Marie Kaiser, Alma Gluck; contraltos—Julia Clausen, Frances Ingram, Margaret Keyes, Alma Beck, Jean Cooper, Sophie Brasla; tenors—Paul Althouse, Morgan Kingston, Charles Harrison; basses—Arthur Middleton, Reinald Werrenrath, Royal Dadmun; pianist—Josef Hoffman; violinists—Fritz Kreisler, Jascha Heifetz. The following choral works have been presented—Handel's "Messiah" (six times); Mendelssohn's "Hymn of Praise" (four times), and "Elijah"; Max Bruch's "Arminius"; Hayden's "Creation"; Choral Fantasia of Wagner's "Lohengrin"; Cowen's "Rose Maiden"; Gaul's "City," and "Ruth"; and Bruch's "Fair Ellen"; Saint-Saens' "Samson and Delilah."

The following course of concerts was presented during the last school year:—Giovanni Martinelli, assisted by Nina Morgana; Tosca Seidel, violinist and May Peterson, soprano; Rudolph Ganz, pianist; annual May Festival (three concerts); Chicago Symphony Orchestra, Kalamazoo Choral Union, Children's chorus; assisting artists, Florence Hinkle, soprano; Lambert-Murphy, tenor; Thomas Chalmers, baritone; Clarence Whitehall, basso; Enrico Tramonte, harpist; Gounod's Faust
CHILDREN'S CHORUS
given by Choral Union, Orchestra and soloists; Hiawatha's Childhood, by Bessie Whiteley, by Children's Chorus and Orchestra.

This year the following concerts were given under the direction of the Kalamazoo Choral Union:—Madame Louise Homer, contralto; Mischa Levitzki, pianist; Pablo Casals, violoncello, Reinald Werrenrath, baritone; May Festival, Chicago Symphony Orchestra; Frederick Stock, conductor; Children's Chorus, The Pied Piper of Hamlin, Leoti Coombs, Director; Verdi's Aida, soloists, Ethel Benedict, soprano; Carolina Lazzari, contralto; Lambert Murphy, tenor; Arthur Middleton, baritone; Gustaf Holmquist, bass; Harper C. Maybee, director.

Glee Clubs. Three Glee Clubs are maintained during the year, a Junior Girls' Glee Club and a Senior Girls' Glee Club, and a Men's Glee Club. The clubs have taken a prominent part in the life of the school, appearing frequently in assembly—the Seniors having presented two programs. They have appeared in nearby towns. The services of any of the glee clubs may be secured for concerts by school or other organizations by paying expenses.

Normal Music Club. This is an organization of faculty and student members of the Music Department. Meetings are held monthly at homes of the members. Programs are prepared by the committees and given by the students, followed by a social time.

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 have taken advantage. This year the orchestra furnished music for various school functions.

LITERARY SOCIETIES

Amphictyon. The Amphictyon Society was organized in 1904, and holds regular meetings throughout the school year. The society has expressed its object as follows: "To promote such a liberal exchange of thought and social interests as will aid in the development of right character, the spirit of good fellowship, and the highest freedom and efficiency of mind." The society has a large membership, and gives receptions and public programs that do much to promote the social life of the school.

Normal Literary Society. This society was organized in 1906, and includes both men and women of the school in its membership. An important purpose of this society is the promotion of interest and efficiency in public speaking. Regular meetings of this society are held on alternate Thursdays at 7:30 p. m., when programs of interest to the student body are given.
The Dramatic Association was organized at the close of the school year of 1914 and represents a union of the smaller dramatic clubs of the school. It aims to arouse and direct student interest in the drama and dramatic activities, both through the production of plays and the rendering of programs on dramatic subjects. Only plays of real literary and artistic merit are attempted, and the results have been very gratifying. Membership is limited to those students who possess dramatic ability, or who are interested in dramatic affairs.

THE FORUM

This society, formerly known as the Hickey Debating Club, 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 regular meetings of the club are held on alternate Wednesdays at 7 p.m., where current questions are formally debated by chosen teams. Membership is open to all men.

CERCLE FRANCAIS

An organization known as the Cercle Français 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 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 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
STUDENT PARTY
of the Greeks and Romans, their religion, art, theatre, the
topography and monuments of Athens and Rome, etc., 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 occasion-
ally 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 are planning to 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 Nor-
mal 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.

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.
Expenses

FEES

Tuition. For residents of Michigan, $6 for each regular term of twelve weeks and $4 for the Summer Term of six weeks.
For non-residents of Michigan, $10 for each regular term of twelve weeks and $6 for the Summer Term of six weeks.
A fee of $1.50 is collected each term for the support of athletics, and subscription to the school paper.
The above rates will apply to all classes of students except students from Kalamazoo County who enroll in Rural Education courses.

Graduation Fees

Limited Certificate Course .................................................. $2.00
Life Certificate Course.......................................................... 3.00
A. B. Degree................................................................. 3.00
Extension Course............................................................... 3.00

Laboratory Fees

Chemistry, each term.......................................................... $1.00
Physics, each term.............................................................. 1.00
Biology, each term.............................................................. .50
Domestic Art................................................................. 2.00
Domestic Science.............................................................. 2.00
Industrial Arts................................................................. $2.00 or $3.00

BOARDING AND ROOMING

There are convenient rooms in the vicinity of the school sufficient to house 1,200 or more students. The cost of room and board varies. The average cost of rooms is from $1.50 to $2.00 per week per person; the average cost of board from $5.00 to $6.00 per week.
Men and women students should not room in the same house. Women students should expect the privilege of entertaining their callers in a down-stairs room assigned for that purpose.
A list of good rooming and boarding houses can be obtained from the Secretary in the general office or from the Dean of Women. It is advisable for students to see the rooms before they definitely engage them.
REMUNERATIVE OCCUPATION

Kalamazoo offers many opportunities for students who wish to support themselves in part during their 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 Secretary of the school has charge of this department and receives and attends to requests for assistance.

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.

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 1920-21 the opening dates will be as follows: Fall Term, September 27, 1920 (registration September 24 and 25); Winter Term, January 3, 1921; Spring Term, April 4, 1921; Summer Term, June 27, 1921. Students entering for the first time should bring their high-school or other entrance credits. A blank 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 54.

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.

ACCEPTED HIGH SCHOOLS

At a meeting of the State Board of Education held at Lansing January 23, 1903, the following policy was adopted con-
CONDITIONS OF ADMISSION

cerning 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 fully employed 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 the 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 a 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.

NEW LAW REQUIRES PROFESSIONAL TRAINING

A law passed by the Legislature of Michigan in 1915 provides that after July 1, 1916, 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.

COUNTY NORMAL GRADUATES

Graduates from County Normal Training Classes who are also graduates from approved high schools, are given credit in eight subjects on the Life Certificate courses in the several State Normal Schools. This will enable the above class of students to complete the Life Certificate courses in one year and two Summer terms.

County Normal graduates who have graduated from approved high schools are given credit in six subjects in the Limited Certificate course. County Normal graduates who have completed the tenth grade in approved high schools will be given a year of credit in the High School courses.

REGISTRATION AND ENROLLMENT

Friday and Saturday before the opening day of the Fall Term, and the first day of all other terms are given to enrollment, registration, and payment of fees. Entering students should present themselves first to the Committee on Entrance Requirements and see that the entrance requirements of the course of study they intend to pursue are fully satisfied. Then, if the student has determined the course he intends to pursue, he will present himself to the advisor in his course for enrollment, and plan his program of work. If the student has not determined the course he intends to pursue, he should consult the General Advisory Committee before presenting himself for enrollment. This committee will direct the student to the course of study most likely to meet his needs. After enrollment the student will present his enrollment card containing his program of work for the ensuing term to the Registrar, pay his term fees, and be officially registered as a student in the school. Class-lists of students officially registered and enrolled will be provided for instructors. 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 thirty-six nor more than fifty-four weeks 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

Permission to carry extra work will be granted only on the recommendation of three members of the faculty and a high grade of work during preceding terms. Application for an extra study is made by filling out an "Extra Study" card at the time of enrollment. No application for an extra study will be considered after the close of the first week of the term.

CERTIFICATES

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

The State Board of Education through the 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 the Western State Normal school, which course shall require not less than two years of work 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, 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, provided a copy of the certificate shall have been recorded in the office of the legal examining officer of the county or city in which the holder is to teach.
EXTENSION LIFE CERTIFICATE

The Western State Normal was authorized in 1905 to grant Extension Life certificates to mature students who comply with the following conditions:

1. Graduation from a high school, or its equivalent.
2. Six years of successful teaching.
3. Completion of the following work under direction of the faculty of the Western State Normal:
   a. Three Summer terms in residence.
   b. Two or three years of non-residence work,—either
      1. Class work at a center within range of the school or
      2. Correspondence work under direction.

The object of the course is to meet the needs of those who otherwise would be deprived of opportunity for growth and advancement. Extra credits or substitutes for residence study on the basis of work done elsewhere are not accepted.

Special announcements bearing on the workings of the Extension course 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 the Western State Normal School after the completion of the four-year course of study outlined on page 54.
Courses of Study

The courses of study in the 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

The 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 (144 weeks' credit). 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 twelve weeks' credit.
EARLY ELEMENTARY COURSE

(Kindergarten—Grades I and II)
Miss Spindler, Miss Kern, Advisors

Group I.

Introductory Psychology 101 ................. 12 weeks
Educational Psychology 102 .................. 12 “
Principles of Teaching 101 .................. 12 “
Teaching 101, 102 ......................... .24 “
Composition 101 .............................. 12 “
Teachers' Art 102 ................................. 12 “
Primary Music 118 ................................ 12 “

Group II.

A major in Early Elementary Education ...... 36 to 72 “

Group III

A. Literature and Reading ................. 48 “
B. History and Sociology ...................... 36 “
C. Science and Mathematics .................. 36 “

NOTE: 1. Students who elect a major of 36 weeks may choose the remaining 36 weeks at pleasure.

NOTE: 2. Physical Education (101, 102, 103, 104, 105), Library Methods, and Penmanship are required of all students.

NOTE: 3. Students must have had Beginning Reading 104 before they will be assigned for practice teaching in the first grade.
LATER ELEMENTARY COURSE

(Grades III, IV, V, and VI)

Dr. Henry, Miss Harrison, Advisors.

Group I.

Introductory Psychology 101 ........................................... 12 weeks
Educational Psychology 102 ............................................. 12 "
Genetic Psychology 103 ................................................... 12 "
Principles of Teaching 101 ............................................. 12 "
Teaching 101, 102 ...................................................... 24 "
Composition 101 .......................................................... 12 "
Teachers' Art 102 .......................................................... 12 "
Teachers' Music 106 ...................................................... 12 "

Group II.

A major elected in one subject ......................... 36 to 72 Weeks

Group III.

A. Literature and Reading ........................................... 36 "
B. History and Sociology ........................................... 36 "
C. Science and Mathematics ........................................ 36 "

NOTE: 1. Students who elect a major of 36 weeks may choose the remaining 36 weeks at pleasure.

2. Physical Education (101, 102, 103, 104, 105), Library Methods, and Penmanship required of all students.
RURAL EDUCATION COURSE

Dr. Burnham, Miss Munro, Advisors.

Group I.

Introductory Psychology 101 .......................... 12 weeks
Educational Psychology 102 .................................. 12
Genetic Psychology 103 ...................................... 12
Principles of Teaching 101 .................................. 12
Teaching 101, 102 ........................................... 24
Composition 101 ............................................. 12
Teachers' Art 103 ............................................. 12
Teachers' Music 106 ......................................... 12

Group II.

A major elected in Rural Education .............. 36 to 72

Group III.

A. Literature and Reading ................................. 36
B. History and Sociology .................................. 36
C. Science and Mathematics .............................. 36

NOTE: 1. Students who elect a major of 36 weeks may choose the remaining 36 weeks at pleasure.

2. Physical Education (101, 102, 103, 104, 105), Library Methods, and Penmanship required of all students.
JUNIOR HIGH SCHOOL COURSE

(Grades VII, VIII, and IX)

Miss Rawlinson, Mr. Moore, Advisors.

Group I.

Introductory Psychology 101..........................12 weeks
Educational Psychology 102..........................12 "
Genetic Psychology 103..............................12 "
Principles of Teaching 101............................12 "
English Composition 101..............................12 "

Group II.

One major subject, consisting of from 48 to 84 weeks including 12 weeks of teaching.

One minor subject, consisting of 48 weeks including 12 weeks of teaching.

Two subjects (other than the major and minor) consisting of 36 weeks each.

The remaining units to be taken in groups of three or miscellaneousely with the consent of the advisor.

Note.—Physical Education (101, 102, 103, 104, and 105), Library Methods, and Penmanship are required of all students.
SENIOR HIGH SCHOOL COURSE
(Grades X, XI, and XII)

Mr. Fox, Miss Zimmerman, Advisors.

Group I.

 Introductory Psychology 101 .................. 12 weeks
 Educational Psychology 102 .................. 12 "
 Genetic Psychology 103 .................. 12 "
 Principles of Teaching 101 .................. 12 "
 English Composition 101 .................. 12 "

Group II.

A major of 84 weeks including 12 weeks of teaching.
A minor of 48 to 84 weeks including 12 weeks of teaching.

In so far as possible the remaining work should be taken in
consecutive courses of 36 weeks each, one of which must be in a
subject not chosen as a major or minor.

Note.—Physical Education (101, 102, 103, 104, and 105),
Library Methods, and Penmanship are required of all students.

Note.—Students who are looking forward to teaching in the
high school are urged to plan to take the four-year course
(page 54). By so doing they will be able to secure better positions
and better salaries.
ART COURSE

Miss Goldsworthy, Miss Judson, Advisors

FIRST YEAR

Fall Term
Introductory Art (101) .... 6
Art Observation (116) .... 6
Int. Psychology (101) .... 12
Mechanical Drawing (108) .... 12
Elective .................. 12
Physical Education (101)

Winter Term
Teachers' Art (102) .......... 12
Art Observation (117) .... 6
Blackboard Sketching (106) .... 6
Composition (101) .......... 12
Elective .................. 12
Physical Education (102)

Spring Term
Handwork (104) .......... 12
Advanced Art (107) .......... 12
Principles of Teaching (101) .......... 12
Elective .................. 12
Physical Education (103)

SECOND YEAR

Fall Term
Advanced Art (108) .... 12
Design (112) .......... 12
Elective .................. 12
Teaching (101) .......... 12
Physical Education (104)

Winter Term
History and Appreciation of Art (114) .......... 12
Educational Psychology (102) .......... 12
Teaching (102) .......... 12
Elective .................. 12
Physical Education (105)

Spring Term
Advanced Art (109) .......... 12
Course of Study in Art (118) .......... 12
History and Appreciation of Art (115) .......... 12
Elective .................. 12

Note 1. Students wishing to specialize in art must have had a good course in public school art in the grades and high school work added if possible.

Note 2. Entrance examination is required of students wishing to specialize in art.

Note 3. Library Methods and Penmanship required of all students.
## COURSES OF STUDY

### ART AND MUSIC

Miss Goldsworthy, Mr. Maybee, Advisors

### FIRST YEAR

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<td>Teaching (101)</td>
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<td>Educational Psychology</td>
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<td>Elements of Music (101)</td>
<td>(102)</td>
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<td>Harmony (109)</td>
<td>Voice Culture (103)</td>
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### Winter Term

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<td>Teaching (102)</td>
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### Spring Term

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<td>History and Appreciation of Art (115)</td>
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<tr>
<td>Methods of Primary Grades in Music (107)</td>
<td>High School Conducting (115)</td>
</tr>
<tr>
<td>Harmony (111)</td>
<td>Voice Culture (104)</td>
</tr>
<tr>
<td>Physical Education (103)</td>
<td>Elective</td>
</tr>
</tbody>
</table>

---

**Note 1.** Chorus and Glee Club or Orchestra are required of all in this course.

**Note 2.** Students wishing to specialize in art and music must have had a good course in public school art in the grades and if possible high school work also.

**Note 3.** Library Methods and Penmanship are required of all students.
MUSIC COURSE

Mr. Maybee, Advisor

FIRST YEAR

Fall Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elements of Music (101)</td>
<td>6</td>
</tr>
<tr>
<td>Harmony (109)</td>
<td>12</td>
</tr>
<tr>
<td>Observation (116)</td>
<td>6</td>
</tr>
<tr>
<td>Composition (101)</td>
<td>12</td>
</tr>
<tr>
<td>History of Music (112)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (101)</td>
<td></td>
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Winter Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elements of Music (102)</td>
<td>6</td>
</tr>
<tr>
<td>Harmony (110)</td>
<td>12</td>
</tr>
<tr>
<td>Introductory Psychology (101)</td>
<td>12</td>
</tr>
<tr>
<td>Voice Culture (103)</td>
<td>6</td>
</tr>
<tr>
<td>History and Appreciation (113)</td>
<td>12</td>
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<tr>
<td>Physical Education (102)</td>
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Spring Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methods: Primary Grades (107)</td>
<td>6</td>
</tr>
<tr>
<td>Harmony (111)</td>
<td>12</td>
</tr>
<tr>
<td>Principles of Teaching (101)</td>
<td>12</td>
</tr>
<tr>
<td>Observation (117)</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td>12</td>
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<tr>
<td>Physical Education (103)</td>
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SECOND YEAR

Fall Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Musical Composition (114)</td>
<td>12</td>
</tr>
<tr>
<td>Educational Psychology (102)</td>
<td>12</td>
</tr>
<tr>
<td>Teaching (101)</td>
<td>12</td>
</tr>
<tr>
<td>Methods: Grammar Grades (106)</td>
<td></td>
</tr>
<tr>
<td>Voice Culture (104)</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education (104)</td>
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</table>

Winter Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Voice Culture</td>
<td>12</td>
</tr>
<tr>
<td>Teaching (102)</td>
<td>12</td>
</tr>
<tr>
<td>*Musical Composition (126)</td>
<td>12</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td>Physical Education (105)</td>
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Spring Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>High School Conducting (115)</td>
<td>12</td>
</tr>
<tr>
<td>*Musical Analysis (127)</td>
<td>12</td>
</tr>
<tr>
<td>Elective</td>
<td>24</td>
</tr>
</tbody>
</table>

Chorus and Glee Club or Orchestra are required of all in the Music course.

Note.—Library Methods and Penmanship are required of all students.

Laboratory Fees.

*Or elective.
## COMMERCIAL COURSE.

Mr. Loring, Advisor.

### FIRST YEAR

<table>
<thead>
<tr>
<th>Term</th>
<th>Subject</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td><strong>Fall Term</strong></td>
<td>Arithmetic (108)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Typewriting (101)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Shorthand (101)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Economic Geography (109)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Introductory Psychology (101)</td>
<td>12</td>
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</tbody>
</table>

### Winter Term

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arithmetic (109)</td>
<td>6</td>
</tr>
<tr>
<td>Typewriting (102)</td>
<td>6</td>
</tr>
<tr>
<td>Shorthand (102)</td>
<td>12</td>
</tr>
<tr>
<td>Composition (101)</td>
<td>12</td>
</tr>
<tr>
<td>Educational Psychology (102)</td>
<td>12</td>
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### Spring Term

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Management (110)</td>
<td>6</td>
</tr>
<tr>
<td>Typewriting (103)</td>
<td>6</td>
</tr>
<tr>
<td>Shorthand (103)</td>
<td>12</td>
</tr>
<tr>
<td>Principles of Teaching (101)</td>
<td>12</td>
</tr>
<tr>
<td>Accounting (101)</td>
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### SECOND YEAR

<table>
<thead>
<tr>
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<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall Term</strong></td>
<td>Business Law (106)</td>
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<tr>
<td></td>
<td>Economics (101A)</td>
<td>12</td>
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<tr>
<td></td>
<td>Accounting (102)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Shorthand (104)</td>
<td>12</td>
</tr>
</tbody>
</table>

### Winter Term

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Law (107)</td>
<td>12</td>
</tr>
<tr>
<td>Economics (101B)</td>
<td>12</td>
</tr>
<tr>
<td>Accounting (103)</td>
<td>12</td>
</tr>
<tr>
<td>Practice Teaching (101)</td>
<td>12</td>
</tr>
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</table>

### Spring Term

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Methods (114)</td>
<td>12</td>
</tr>
<tr>
<td>Accounting (104) or Money and Banking (102)</td>
<td>12</td>
</tr>
<tr>
<td>Letter-Writing (111)</td>
<td>12</td>
</tr>
<tr>
<td>Practice Teaching (102)</td>
<td>12</td>
</tr>
</tbody>
</table>

Notes—(1) Physical Education (101, 102, 103, 104, 105), Library Methods, and Penmanship required of all students.

(2) Slight alterations in the above schedule may be made with the consent of the advisor.
HOUSEHOLD ARTS COURSE
Miss Blair, Miss Moore, Advisors

Group I.

Introductory Psychology 101 ....................... 12 weeks
Educational Psychology 102 .......................... 12
Principles of Teaching 101 ............................ 12
English Composition 101 .............................. 12
Chemistry 102A, B, 103 ................................ 36
Physiology 117 ........................................... 12
Household Arts Design 113 ........................... 12
Teaching 101-102 ........................................... 24

Group II.

A. Textiles and Clothing ............................. 72 weeks
   Foods and Cookery ..................................... 36
   or

B. Textiles and Clothing ............................. 36
   Foods and Cookery ..................................... 72

Group III.

A. Literature ........................................... 12 weeks
   History .................................................. 12
   Mathematics or Geography ......................... 12

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

NOTE.—Physical Education (101-2-3-4-5), Library Methods, and Penmanship required of all students.
INDUSTRIAL ARTS COURSE

Mr. Sherwood, Mr. F. Huff, Advisors.

Group I.

<table>
<thead>
<tr>
<th>Course</th>
<th>Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Psychology 101</td>
<td>12</td>
</tr>
<tr>
<td>Principles of Teaching 101</td>
<td>12</td>
</tr>
<tr>
<td>Teaching 101, 102</td>
<td>24</td>
</tr>
<tr>
<td>Composition 101</td>
<td>12</td>
</tr>
<tr>
<td>Shop Mathematics 112</td>
<td>12</td>
</tr>
<tr>
<td>Mechanical Drawing 109, 110</td>
<td>24</td>
</tr>
<tr>
<td>Applied Art 110</td>
<td>12</td>
</tr>
<tr>
<td>Woodshop 102</td>
<td>12</td>
</tr>
<tr>
<td>Practical Electricity 107</td>
<td>12</td>
</tr>
</tbody>
</table>

Group II.

A major elected in the Department of Industrial Arts .................................................. 72 weeks

Group III.

A. Three consecutive units elected in mathematics, physics, biology, chemistry, English, history, psychology or foreign languages....................... 36 weeks.

B. Four units elected with the consent of the advisor .................................................. 48 weeks

Note.—1. Woodshop (101) and Mechanical Drawing (108) are required of all students who have not had satisfactory previous preparation.

2. One year of high-school physics required for graduation. There are many requests for teachers prepared to teach mathematics, athletics, physics, chemistry or history, together with industrial arts work.

3. Library Methods and Penmanship required of all students.
# PHYSICAL EDUCATION COURSE FOR MEN

Mr. Taylor, Advisor

## FIRST YEAR

### Fall Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Introductory Psychology (101)</td>
<td>12</td>
</tr>
<tr>
<td>Rhetoric (104)</td>
<td>9</td>
</tr>
<tr>
<td>Anatomy (115)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (101)</td>
<td>12</td>
</tr>
<tr>
<td>History of Physical Education (107)</td>
<td>6</td>
</tr>
<tr>
<td>Educational Psychology (102)</td>
<td>12</td>
</tr>
<tr>
<td>Rhetoric (104)</td>
<td>9</td>
</tr>
<tr>
<td>Anatomy (116)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (102)</td>
<td>12</td>
</tr>
<tr>
<td>Gymnastic Theory (108)</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Teaching (101)</td>
<td>12</td>
</tr>
<tr>
<td>Rhetoric (104)</td>
<td>9</td>
</tr>
<tr>
<td>Physiology and Hygiene (117)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (103)</td>
<td>12</td>
</tr>
<tr>
<td>First Aid (109)</td>
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### Winter Term

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Anthropometry and Physical Examination (110)</td>
<td>6</td>
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<tr>
<td>Physical Diagnosis (111)</td>
<td>6</td>
</tr>
<tr>
<td>Athletic Theory (113)</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education (104)</td>
<td>12</td>
</tr>
<tr>
<td>Massage and Hydrotherapy (112)</td>
<td>6</td>
</tr>
</tbody>
</table>

### Spring Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching (101)</td>
<td>12</td>
</tr>
<tr>
<td>Anthropometry and Physical Examination (110)</td>
<td>6</td>
</tr>
<tr>
<td>Physical Diagnosis (111)</td>
<td>6</td>
</tr>
<tr>
<td>Athletic Theory (113)</td>
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</tr>
<tr>
<td>Physical Education (104)</td>
<td>12</td>
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<tr>
<td>Massage and Hydrotherapy (112)</td>
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<tr>
<td>Kinesiology (114)</td>
<td>12</td>
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<tr>
<td>Physical Education (105)</td>
<td>12</td>
</tr>
<tr>
<td>Basketball Technique (115)</td>
<td>6</td>
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<tr>
<td>Equipment of Playgrounds and Gymnasiums (121)</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education Administration (117)</td>
<td>12</td>
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<tr>
<td>Physiology of Exercise (116)</td>
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<tr>
<td>Physical Education (106)</td>
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<tr>
<td>Baseball Technique (118)</td>
<td>6</td>
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<tr>
<td>Track Athletics Theory (119)</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>
FOOTBALL TEAM 1919
# COURSES OF STUDY

## PHYSICAL EDUCATION COURSE FOR WOMEN

Miss Guiot, Advisor

### FIRST YEAR

#### Fall Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Psychology (101)</td>
<td>12</td>
</tr>
<tr>
<td>Rhetoric (104)</td>
<td>9</td>
</tr>
<tr>
<td>General Gymnastics (110)</td>
<td>6</td>
</tr>
<tr>
<td>Folk Dancing (111)</td>
<td>6</td>
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<tr>
<td>Methods (123)</td>
<td>6</td>
</tr>
<tr>
<td>Anatomy (115)</td>
<td>12</td>
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<tr>
<td>*Physical Education (101)</td>
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#### Winter Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>Educational Psychology (102)</td>
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</tr>
<tr>
<td>Rhetoric (104)</td>
<td>9</td>
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<tr>
<td>Aesthetic Dancing (112)</td>
<td>6</td>
</tr>
<tr>
<td>Swedish Theory and Practice (117)</td>
<td>6</td>
</tr>
<tr>
<td>Games and Rhythms (105)</td>
<td>6</td>
</tr>
<tr>
<td>Anatomy (116)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (102)</td>
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#### Spring Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Teaching (101)</td>
<td>12</td>
</tr>
<tr>
<td>Rhetoric (104)</td>
<td>9</td>
</tr>
<tr>
<td>General Gymnastics and Aesthetic Dancing (113)</td>
<td>6</td>
</tr>
<tr>
<td>Swedish Theory and Practice (118)</td>
<td>6</td>
</tr>
<tr>
<td>Playground Organization (119)</td>
<td>9</td>
</tr>
<tr>
<td>Physiology and Hygiene (117)</td>
<td>12</td>
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</tbody>
</table>

*Field Games, Tennis, and Swimming, six weeks' credit.

**Electives. The remaining units may be elected in literature, history, geography, sociology, or foreign language.

Note.—Library Methods and Penmanship required of all students.

### SECOND YEAR

#### Fall Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching (101)</td>
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</tr>
<tr>
<td>General Gymnastics and Aesthetic Dancing (114)</td>
<td>6</td>
</tr>
<tr>
<td>Domestic Science (First Aid), Emergencies and Home Nursing (104)</td>
<td>6</td>
</tr>
<tr>
<td>Musical Construction (128)</td>
<td>12</td>
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<tr>
<td>**Elective</td>
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</table>

#### Winter Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Teaching (102)</td>
<td>12</td>
</tr>
<tr>
<td>General Gymnastics and Aesthetic Dancing (115)</td>
<td>6</td>
</tr>
<tr>
<td>Applied Anatomy and Corrective Work (120)</td>
<td>12</td>
</tr>
<tr>
<td>Gymnasium Equipment (121)</td>
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<tr>
<td>**Elective</td>
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<td>Physical Education (104)</td>
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#### Spring Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>General Gymnastics and Aesthetic Dancing (116)</td>
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<td>Games and Athletics (122)</td>
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<td>Festival (106)</td>
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<tr>
<td>Medical Inspection (113)</td>
<td>6</td>
</tr>
<tr>
<td>**Elective</td>
<td>24</td>
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</tbody>
</table>
EXTENSION COURSE
Mr. Hoekje, Director

Group I.

Introductory Psychology 101, 201, or 301 ............ .12 weeks
Educational Psychology 102, 202, 302 ................ .12 "
Genetic Psychology 103, 203, or 303 ................ .12 "
History of Education 127, 227, or 327 ............... .12 "
English Composition 101, 201, or 301 ............... .12 "
Penmanship

Group II.

Seven units elected by the student .................. .84 weeks

Note.—The Extension Life Certificate only is granted for this work. See page 37 concerning the nature of this certificate. No one should enroll for this work without having consulted the Director of Extension. Regular residence students should enroll in some one of the Two-Year Life Certificate courses.
LIMITED CERTIFICATE COURSE

Dr. Burnham, Miss Munro, 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 36.

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 ........................................... 12 weeks
Principles of Teaching 101 .............................................. 12 "
Teaching 101 .............................................................. 12 "
*Teachers’ Art 102 .......................................................... 12 "
*Teachers’ Music 106 ....................................................... 12 "
Composition 101 ........................................................... 12 "
Sociology 113 ............................................................... 12 "

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 ............................................... 12 weeks
Story-Telling 104 ........................................................... 12 "
American History, 101, 102, or 103 .................................... 12 "
General Geography 101 .................................................... 12 "
Arithmetic 101 ............................................................. 12 "
Hygiene 118 ................................................................. 12 "
Curriculum and Management 101 ........................................ 12 "
‡Agriculture 123A .......................................................... 12 "
Agriculture 123B ........................................................... 12 "
Household Arts 114, or Shopwork 101 ................................ 12 "
Nature-Study 111 or 123C .................................................. 12 "

*Note.—Students whose high-schools have not provided them preparation in beginning art and in elements of music, will take introductory courses in these subjects before taking Teachers’ Art and Music courses required. These introductory courses may be counted as electives in the Limited Course, but will not be counted as credit toward a Life Certificate.

†Note.—Students who have not had Agriculture in the high-school, will elect courses 123A and 123B, as advised by the enroller.

Note.—Physical Education (101-2-3), Library Methods, and Penmanship, are required of all students in the Limited Course.
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 degree 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 Secretary-Registrar of the school.
Subjects Required

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

- English: 3 units
- Foreign Language: 2 units
- Mathematics (Algebra or Geometry): 1 unit
- Science: 1 unit
- History: 1 unit

Subjects Accepted for Admission

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

- English: 3 or 4 units
- Greek: 2 or 3 units
- Latin: 2, 3 or 4 units
- French: 2, 3 or 4 units
- Spanish: 2, 3 or 4 units
- History: 1, 2 or 3 units
- Algebra: 1, 1½ or 2 units
- Geometry: 1 or 1½ units
- Trigonometry: ½ unit
- Physics: 1 unit
- Chemistry: 1 unit
- Physiology: ½ unit
- Geology: ½ unit
- Botany: ½ or 1 unit
- Zoology: ½ or 1 unit
- Physiography: ½ or 1 unit
- Elementary Economics: ½ unit
- Agriculture: 1 or 2 units
- Household Arts: 1 or 2 units
- Drawing: ½ or 1 unit
- Manual Arts: 1 or 2 units
- Commercial Branches: 1 or 2 units
- General Science: ½ unit

Requirement for the Degree of Bachelor of Arts

The degree of Bachelor of Arts and a teachers’ 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
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hours of laboratory work will count as one class-hour. The requirement for graduation with this degree is forty-eight units distributed as follows:

<table>
<thead>
<tr>
<th>Group</th>
<th>Units</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>3</td>
<td>English Composition and Rhetoric.</td>
</tr>
<tr>
<td>II</td>
<td>5</td>
<td>History, Economics, Sociology, Philosophy.</td>
</tr>
<tr>
<td>III</td>
<td>6</td>
<td>Biology, Chemistry, Geography, Physics, Mathematics, Astronomy, Geology.</td>
</tr>
<tr>
<td>IV</td>
<td>6</td>
<td>Ancient Languages, Modern Languages, English Language and Literature.</td>
</tr>
</tbody>
</table>

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.
Details of Departments

ART

*MISS GOLDSWORTHY
MISS JUDSON MISS NETZORG
MISS SPENCER MISS STEVENSON

Students entering the normal school who have not had art in the grades or high school or who are not able to pass a simple test of seeing and expressing form in drawing are required to take a course in Introductory Art (101) without credit before taking Teachers' Art (102).

101. Introductory Art. This course will cover the elementary work in drawing and painting forms from nature, plant life, trees, landscape, animals and figure, also type forms and simple objects in still life that illustrate the principles of perspective. Simple design as expressed in units, borders and surface coverings. Picture study of some of the great masterpieces in art. Mediums used—pencil, crayons, and water colors. No credit given except to special art students.

MISS JUDSON, MISS STEVENSON


A. This course prepares the student to teach art in the kindergarten, first, second, and third grades. It presupposes some ability on the part of the student to express form and color in drawing and painting as given in Introductory Art 101. A review course in testing students ability to illustrate studies in form and color in all mediums from nature and simple objects surrounding the child at home and at school. Blackboard sketching to illustrate all phases of art work and other subjects in the curriculum. Design is studied and applied in every lesson and includes the making and decorating of objects useful in the home and school. Picture study is continued in this course. 12 weeks' credit. Fall, Winter, Spring, and Summer terms.

MISS GOLDSWORTHY
MISS STEVENSON, MISS JUDSON

*Names in the order of seniority of service.
B. The work for this course is planned to cover lettering in paper-cutting, pencil, and pen work; the study of the color wheel and color harmonies; nature, figure and animal study in pictorial and decorative treatment; perspective principles and rendering in light and shade; study of fundamental principles governing costume design and house furnishing; problems in illustration of stories, blackboard work, design, book-covers and simple posters employing motives and knowledge derived from previous subjects. Mediums: watercolor, crayon, pencil, and paper-cutting. Picture study includes the discussion of masterpieces, the artists' lives and their contribution to the world's art movement. All students will be required to observe practice teaching in art in the Training School. 12 weeks' credit. Fall, Winter, Spring, and Summer terms.

MISS GOLDSWORTHY, MISS JUDSON, MISS STEVENSON

103. Teachers' Art. This course is planned to meet the demands of the teacher in the country school. It will include problems in handwork, such as weaving, clay-modeling, sand table interpretations, and table settings expressing in graphic form the environment of the country and farm life; the study of home life as expressed in problems relating to house furnishing and costume design; a study of means of transportation worked out in toy making. Drawing, painting, and blackboard sketching will be features in the course. 12 weeks' credit. Spring Term.

MISS STEVENSON, MISS SPENCER

104. Handwork I. Elementary problems in clay-modeling, paper-cutting, cardboard construction, weaving, spool-knitting, simple toy making from boxes, spools, and other common articles, elementary bookmaking and basketry. This course is open to students without previous art work and all students preparing to teach in the grades are urged to take this course. 12 weeks' credit. Fall, Winter, Spring, and Summer terms.

MISS STEVENSON, MISS SPENCER

105. Handwork II. Advanced work in pottery and knowledge of use of kiln, basketry, rug-making, and more advanced problems in book binding. The history of the industries and the growth, manufacture, and distribution of raw materials will be included in this course. 12 week's credit. Spring and Summer terms.

MISS STEVENSON, MISS SPENCER

106. Blackboard Sketching. This course gives the student practice in sketching on the blackboard to illustrate all phases of art work, also other subjects of the school curriculum. The making of calendars for each month and illustrations for Thanksgiving, Christmas, Valentine Day, Easter, and other
special occasions will be a feature of this course. Open to all
students who have had Art 102. 6 weeks' or 12 weeks' credit.
Winter Term.

107. Advanced Art. This course continues the work in pic-
torial and decorative composition commenced in Art 101 and
102 including studies from nature, plant, and landscape sub-
jects. Also a study of still life objects in advanced composi-
tion. Mediums used are charcoal, crayons, water color, and
pencil. "Open to students who have taken Art 101, 102, or its
equivalent. 12 weeks' credit. Spring Term.

MISS GOLDSWORTHY, MISS JUDSON

study of color in fall studies from nature and landscape. Out-
door sketching in color will be a part of this course. Poster
making of school activities and gift making for the holidays will
be a feature of the course. 12 weeks' credit. Fall Term.

MISS GOLDSWORTHY, MISS JUDSON

109. Advanced Art. A study of basic principles of pictorial
design as studied in landscape and figure composition. A fea-
ture of the course will be making illustrations and decoration
in pen and ink for the school annual "The Brown and Gold." The mediums used will be ink and full palette of artists colors.
12 weeks' credit.

MISS GOLDSWORTHY, MISS JUDSON, MISS STEVENSON

110. Applied Drawing for Industrial Art Students. Students
in the Industrial Arts Course especially need the ability to see
form and express it correctly. A study of principles of per-
spective as shown in simple and more advanced studies in type
forms, tools, objects made in the shops and furniture. Simple
color work as applied to object drawing and architectural sub-
jects. A study of art in the home will be a feature of this
course. Mediums used are pencil, crayon, water color and
blackboard. 12 weeks' credit.

MISS GOLDSWORTHY

111. Industrial Design. This course includes a study of
pure design, the study and application of principles bearing on
structural design and structural and surface enrichment in wood
cement and other materials. Practice is given in the use of
pencil, ink, and color for design purposes. Some time is given
to the study of period furniture. 12 weeks' credit. Winter Term.

MISS JUDSON

112. Design. This course includes the study of pure design
as expressed in line, dark and light, and color, leading to prob-
lems in textiles and a variety of materials. The course is open
as an elective to students who have had Art 101 and 102 or their equivalent. 12 weeks’ credit. Fall Term.

MISS JUDSON, MISS STEVENSON

113. Household Arts Design. This course includes the study of the principles of pure design as expressed in line, dark and light, and color, leading to problems in costume design and illustration. The course is planned especially to meet the needs of students in the Household Arts Department and is open to students who have had Introductory Art or Teachers’ Art. 12 weeks’ credit. Winter Term.

MISS JUDSON, MISS STEVENSON

114. History and Appreciation of Art. This course includes a study of art throughout the ages including Primitive, Egyptian, Assyrian, Chaldaean, Indian, Chinese, Japanese, Greek, and Roman work in architecture, sculpture and painting. The course will be illustrated by a large collection of pictures. The students make illustrated note books. 12 weeks’ credit. Winter Term.

MISS GOLDSWORTHY

115. History and Appreciation of Art. The aim of the course is to make a careful study of European art during the Middle Ages and the renaissance period, and to trace the development of modern art in architecture, sculpture, and painting.

MISS GOLDSWORTHY

116. Art Observation Special students in Art and Art and Music are requested to observe the work in art as taught in the Training School in all grades as their programs permit. Illustrated note books are a feature of this course. A weekly conference will be held with the class. 6 weeks’ credit. Fall Term.

MISS GOLDSWORTHY

117. Continuation of this work as outlined above. 6 weeks’ credit. Winter Term.

MISS GOLDSWORTHY

118. Course of Study. This course includes a study of the leading systems of public school art and the making of an illustrated course of study for all grades and high school. 12 weeks’ credit. Spring Term.

MISS GOLDSWORTHY

119. Commercial Art. The work of this course includes the memorizing of alphabets, ink work with the various lettering pens, advertising principles as applied to trademarks, posters, street car cards and newspaper advertising. This course is open to all students who have had Teachers’ Art 102. 12 weeks’ credit. Spring and Summer terms.

MISS STEVENSON
Science Building
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. 36 weeks’ credit.

102. **Zoology.** A general consideration of the structure, physiology, evolution, and environmental relations of animals. Representative types of each phylum of the animal kingdom are studied in the laboratory; lectures and field work complete the course. Open to second-year and third-year students. 36 weeks’ credit. Offered in 1921.

103. **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. 36 weeks’ credit. Offered in 1920.

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. 12 weeks’ credit.

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. 12 weeks’ credit. Fall, Winter, Spring, and Summer terms.
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. 6 weeks' credit. MR. PLACE

113. **Medical Inspection.** A study of the present methods of controlling the health of school children. Practice is given in diagnosis of common troubles of school children. Special study of contagious diseases. Hygienic and sanitary surveys are made. 6 weeks' credit. Spring Term. DR. HARVEY

114. **Biology of Adolescence.** This course gives the student an intelligent background with which to meet the problems of society. Lectures are given on evolution, inheritance, environment, hygiene, and eugenics. A biological basis for the study of human sex-social functioning is prepared by a rapid laboratory review of the evolutionary series of animals and plants showing the development of sex. Sex relations based on the world's religions are discussed. This leads to an understanding of the necessity for the social relations advocated by Christianity. The physiological and psychological sex-problems of the adolescent boy and girl are explained. Methods of developing in the child the knowledge of the primary facts of life and how to answer his questions are considered. 12 weeks' credit. Winter Term. MISS HADLEY

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. 12 weeks' credit. Fall Term. MR. PLACE

116. **Anatomy.** A continuation of course 115, which is a prerequisite. 12 weeks' credit. Winter Term. MR. PLACE

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. 12 weeks' credit. Spring Term. MR. PLACE

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. 12 weeks' credit. Fall, Winter, and Spring terms. MR. PLACE
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. DR. HARVEY, MR. PLACE

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. 12 weeks’ credit. Fall Term. DR. HARVEY

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. 12 weeks’ credit. Winter Term. DR. HARVEY

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. 12 weeks’ credit. Spring Term. DR. HARVEY

123. **Agriculture.** The aim of the course is to give the student a reasonable mastery of the subject-matter usually considered in elementary courses in agriculture, so that he may be able to teach the subject as required in the public schools of the state, and also to direct and supervise such social 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 may be pursued with profit as a twelve weeks’ course.

A. A study of stock—breeds, care, and rationing. 12 weeks’ credit. Fall Term.
B. Michigan soils are used as a basis for the study of soils, fertilizers, and manures. Lectures and demonstrations are given to prepare students for leaders in boys' and girls' clubwork. 12 weeks' credit. Winter Term.

C. Agricultural Nature-Study. A study of the plants and animals of Michigan is pursued in the field and laboratory. 12 weeks' credit. Spring Term.

MISS HADLEY

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. 12 weeks' credit.

MISS HADLEY

CHEMISTRY

*DR. McCracken

101. General Chemistry. This course is required of all students majoring in chemistry, and may be taken by those desiring a one-year credit in the subject. Previous training in the subject is desirable but not required. It is required for entrance to all other courses in chemistry. Laboratory work is required. 36 weeks' credit. Fall, Winter, and Spring terms.

MR. ROOD

102 A, B. General Chemistry. Required of all students in the Household Arts course who have had no chemistry. No other students admitted. 24 weeks' credit. Fall and Winter terms.

MR. ROOD

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. 12 weeks' credit. Spring Term.

MR. ROOD

104. Qualitative Analysis. Tests for metals. Lectures and laboratory work. Required of students majoring in chemistry. May be elected by others. Course 101 is a prerequisite to this course. 12 weeks' credit. Fall Term.

MR. ROOD

105. Qualitative Analysis. Tests for acid radicals and analysis of unknowns. Requirements same as for 104. 12 weeks' credit. Winter Term.

MR. ROOD

*Absent on leave 1920-21.
106. **Advanced Qualitative Analysis.** Analysis of alloys, ores, minerals, water, etc. Elective. Prerequisite, course 104, 105. Spring Term. MR. ROOD

107. **Gravimetric Analysis.** Lectures and laboratory work. Required of students majoring in chemistry. Prerequisites, courses 101, 104, 105. May be elected by those prepared to take it. 12 weeks' credit. Spring Term. MR. ROOD

108. **Volumetric Analysis.** Requirements same as for 107. Elective. 12 weeks' credit. Fall Term. MR. ROOD

109. **Advanced Analysis.** Follows course 105. Analysis of ores, coal, water, etc. 12 weeks' credit. Elective. MR. ROOD

110. **Organic Chemistry.** Lectures and laboratory work. Prerequisites, courses 101, 104, 107, 108. 24 weeks' credit. Winter and Spring terms. MR. ROOD

111. **Inorganic Preparations.** A course in the preparation of inorganic compounds. Requirements the same as for 110. Elective. 12 weeks' credit. Spring Term. MR. ROOD

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. Required of all students specializing in the subject. Must be preceded by courses 101, 104, 105 and 107. 12 weeks' credit. MR. ROOD

**COMMERCE**

**MR. LORING**

Note. Students in other departments who elect shorthand or accounting must take two consecutive courses to secure credit.

101. **Accounting.** The theory of the double entry system, analysis and classification of transactions, problems in technique, closings, and statements. Required. 12 weeks' credit. Spring Term. MR. LORING

101a. **Household Accounting.** Simple principles of accounts applied to the household budget. An attempt is made to show how the proper booking of expenditures may reflect the results of thrift and careful buying. Elective. 12 weeks' credit. Winter Term MR. HUFF
102. **Accounting.** Interest, partnerships, joint ventures, account analysis, and advanced study in financial statements and closings. Laboratory. Prerequisite, course 101. Required. 12 weeks' credit. Fall Term.  

*MR. LORING*

103. **Accounting.** Depreciations, nature and valuation of particular assets, liabilities, and subordinate accounts. Corporation records and laboratory. Prerequisite, course 102. Required. 12 weeks' credit. Winter Term.  

*MR. LORING*

104. **Accounting.** Capital stock, sinking funds, surplus and reserves, combinations and consolidations, particular problems in liquidations and business statistics. Prerequisite, course 103. Elective. 12 weeks' credit. Spring Term.  

*MR. LORING*

105. **Accounting.** A study of costs. The literature on the subject, practical problems, and laboratory set. Elected by special permission. Prerequisite, course 103. Elective. 12 weeks' credit.  

*MR. LORING*

106. **Accounting.** 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 104. Elective. 12 weeks' credit.  

*MR. LORING*

106. **Business Law.** An effort is made in this and in 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: Contracts, agency and service, personal and real property, business associations, insurance, negotiable contracts and the income tax law. Required. 12 weeks' credit. Fall Term.  

*MR. LORING*

107. **Business Law.** A continuation of course 106 giving a total of twenty-four weeks' credit. Fall Term.  

*MR. LORING*

108. **Business Arithmetic.** An arithmetical study of business processes and incidental study of various trading activities. Required. 6 weeks' credit. Fall Term.  

*MR. LORING*

109. **Business Arithmetic.** A continuation of course 108. Prerequisite, course 108. Required. 6 weeks' credit. Winter Term.  

*MR. LORING*

110. **Office Management.** Principles of office administration, location, layout, methodizing communication, control of
correspondence and other activities. Required. 6 weeks' credit. Spring Term.

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. Required. 12 weeks' credit. Spring Term.

312. Economic History of the United States. An outline of the developments of the following economic movements and institutions: Agriculture, manufactures, transportation, population and labor, finance, money and banking. Elective. Offered by correspondence only. 12 weeks' credit.

114. Methods of Commercial Teaching. Methods of attack are considered in detail in each subject classified as commercial. The high-school curriculum is discussed with reference to educational and vocational value. Required. 12 weeks' credit. Spring Term.

101. Shorthand. Elementary. This and the following course cover the principles of the Gregg system of shorthand. Required. 12 weeks' credit. Fall Term.


103. Shorthand. An application and discussion of the principles of the system, dictation at a moderate speed and extensive reading of shorthand plates. Prerequisite, course 102. Required. 12 weeks' credit. Spring Term.

104. Shorthand. Graded dictation, transcription and methods of teaching shorthand. Prerequisite, course 103. Required. 12 weeks' credit. Fall Term.

101. Typewriting. Elementary. Required. 6 weeks' credit. Fall Term.


103. Typewriting. Advanced. Prerequisite, course 102. Required. 6 weeks' credit. Spring Term.
EARLY ELEMENTARY EDUCATION
(KINDERGARTEN—FIRST AND SECOND GRADES)

MISS COPPENS  
MISS SPINDLER  
MISS KERN

101a-b-c. Early Elementary Education. The purpose of this course is to give the student a working knowledge of child life and the best conditions for its development. It involves a study of (1) the mental and physical characteristics of young children and their bearing upon education. (2) The curriculum of the first three years of school life based upon child interests and activities. The course aims to keep close inter-relation between theory and practice to the end that the student may know what the child's needs are and find abundant suggestions as to the best materials and methods of meeting these needs. Required of first-year students in the Early Elementary Course. Fall, Winter, and Spring terms. 36 weeks' credit.

MISS COPPENS

103. Current Educational Problems. This course presupposes a familiarity with general principles of education and at least one term of practice teaching. The purpose of the course is to test these principles and apply them to practice problems in early elementary education. A comparative study of modern theorists and types of modern schools will form the basis of further discussion for evaluating the content of a modern curriculum. 12 weeks' credit. Winter and Spring terms. Senior year.

MISS KERN

104. Beginning Reading. This course deals largely with the physiological, psychological and pedagogical problems found in teaching little children to read. A study is made of kindergarten activities which may be used as a basis for beginning reading. 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. 12 weeks' credit.

MISS SPINDLER

105. Games and Rhythms. A study of the earliest and crudest forms of individualistic expression, moving toward the more highly organized types of play and art as revealed in traditional games, the dramatic games; representative rhythms leading to the dance forms; and finally the largest social grouping, the festival. Consideration will be given to mood, characterization, plot, and their relations. The aim is primarily 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. Open to all students. 12 weeks' credit. Fall Term—seniors. Spring Term—juniors.

106. **Survey of Early Elementary Problems.** A course designed to meet the growing demand for some acquaintance with the problems involved in the education of young children. The aim will be to acquaint the student with needed changes in practice, based upon child-study data, observations in the elementary grades, and a full discussion of principles underlying the curriculum. Elective. Open to all students, particularly those contemplating supervisory and administrative work. 12 weeks' credit. Spring Term.

**EDUCATION AND PSYCHOLOGY**

**MISS SPINDLER**  
**MR. HOEKJE**

**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 a prerequisite to this course. 12 weeks' credit.

125. **History of Ancient Education.** The material treated in this course covers the period from savage education to the early Christian times. Permanent contributions to educational theory and practice will be emphasized. Elective. 12 weeks' credit. Not open to first-year students.

126. **History of Mediaeval Education.** In this course an attempt is made to understand the social organization of Europe during the mediaeval period, and the theories and institutions upon which this society was founded. In so far as is possible, a careful study is made of the philosophy, religion, and sociology of the period in their general relation to education. The latter part of the course is devoted to summarizing the progress of education before modern time. Elective. 12 weeks' credit. Not open to first-year students.
127. **History of Modern Education.** This course traces the development of the modern school in its relation to other social organizations. Special attention is given to the historical conditions and to the men most significant in current educational practice. Special reports on current educational problems and required readings in literature pertaining to the subjects studied in class are required. Elective. 12 weeks’ credit. Not open to first-year students.  

MR. HOEKJE

128. **Secondary Education.** (High School Problems). This work is designed especially for teachers of secondary grades (7 to 12), for principals, and for superintendents. It deals primarily with specific problems of secondary education which arise in connection with the curriculum. The social life of adolescence, and the vocational significance of the various school subjects are considered. Special oral and written reports, free class discussions, and required readings supplement the usual recitation work. Prerequisite to this course. Introductory Psychology 101. Elective. 12 weeks’ credit. Not open to first-year students.  

MR. HOEKJE

129. **School Administration.** This course is intended primarily for those who expect to engage in school administration, whether as superintendents, principals, or supervisors. Because most effective administration is not possible without thorough-going co-operation on the part of all within a given school system, teachers who wish to understand better the conditions under which they work will be accepted as students in this course. The course involves a detailed study of school support; administrative units; school boards and supervisory officers; training, appointment, school equipment; control of textbooks; classification and progress of children in the schools (compulsory education, promotion, retardation, acceleration, elimination, special classes, etc.), etc. Concrete material will be collected by members of the class from contact with actual field conditions. Prerequisites: Psychology 101, Principles of Teaching 101. Elective. 12 weeks’ credit. Not open to first-year students.  

MR. HOEKJE

130. **The Philosophy of Education.** Students in this course will attempt to gain a general background for thought and practice. Educational ideals, methods, and values will be studied critically and constructively. Effort will be made to discover the relation of biology, physiology, psychology, and sociology to education. Current contributions to the problem will be analyzed with care. Prerequisite: Psychology 101 and 102. Elective. 12 weeks’ credit. Not open to first-year students.  

MR. HOEKJE
132. Public School Curricula. This course deals with the curricula of the public school. A preliminary study of the principles underlying the course of study and the history of its development will be followed by a detailed investigation of current methods of instruction and of the organization, value, and content of the various subjects of the high-school course. Prerequisites: Psychology 101 and 102, and Principles of Teaching 101. Elective. 12 weeks' credit. Not open to first-year students.

MR. HOEKJE

134. Psychology of School Subjects. The work of this course embraces a review of the best literature of the period of adolescence and early childhood with special reference to the mental processes involved in learning in the case of the most commonly offered school subjects. Prerequisite: Psychology 101 and 102. Elective. 12 weeks' credit. Not open to first-year students.

MR. HOEKJE

136. Educational Sociology. The course will include a brief review of those principles of sociology which affect education most—the cultural, the social, the physical, and the vocational—as these are determined by the needs of democratic society, modern economic life, and contemporary culture. The differentiation of educational objectives as required to meet local and special needs arising from the differentiation of social groups will be shown. The purpose of the course is to discover the social influences of the school which develop the child's efficiency as a member of society. Elective. 12 weeks' credit. Not open to first-year students.

MR. HOEKJE

137. High School Methods. This course is designed primarily for those who expect to teach in junior or in senior high schools. It supplements course 128. It stresses proper methods of teaching various high-school subjects, discipline, elimination of waste, means of effective organization of subject-matter, etc., etc. Some field work with written reports is involved. Psychology 101 and 102 are prerequisite. Not open to first-year students. 12 weeks' credit. MR. HOEKJE

PSYCHOLOGY

101. Introductory Psychology. This is a course for beginners. The course consists of lectures, recitations, quizzes, and laboratory work. Required. 12 weeks' credit. Offered each term.

MR. RENSHAW, DR. HENRY

102. Educational Psychology. A study in class and laboratory of the nature and conditioning factors of human learning. 12 weeks' credit. Offered each term.

MR. RENSHAW, DR. HENRY
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. Not open to first-year students. Must be preceded by courses 101 and 102. Offered each term. 12 weeks' credit.

**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. 12 weeks' credit.

**MR. RENSHAW**

105. **Mental Tests.** A practical course in the application of all kinds of psychological tests and scales. Laboratory training in the use of both group and individual tests for mental classification is given. Prerequisites: courses 101 and 102. Course 104 should be taken if possible before entering this course. Not open to first-year students. 12 weeks' credit.

**MR. RENSHAW**

106. **Educational Measurement.** A course in the theory and technique of the standard tests and scales for measuring achievement 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. Of special value to those looking forward to administrative or supervisory positions. Not open to first-year students and must be preceded by courses 101 and 102. 12 weeks' credit.

**DR. HENRY**

107. **Clinical Psychology.** A course for teachers of special classes and for students who expect to do mental examining in the public schools. It consists of practical work in the examination, diagnosis, and classification of cases. Such things as history-taking, record-keeping, determination of anatomical and physiological age and prognosis receive attention. Not open to first-year or second-year students. Prerequisites: Courses 101, 102, 103, and 105. 12 weeks' credit.

**MR. RENSHAW**

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. 12 weeks' credit. Not open to first-year students. Should be preceded by courses 101, 102, and 103 or 105.

**MR. RENSHAW**

109. **The Gifted Child.** A course in the psychology and pedagogy of the child of superior mental endowment. Not open to first-year students. Prerequisites: Courses 101, 102, and 103. (Under certain conditions course 103 may be waived.) Elective. 12 weeks' credit.

**DR. HENRY**

110. **Psychology of Exceptional Children.** This course is intended to meet the needs of those planning to teach in special rooms for exceptional children of various ages. It will include a discussion of the modifications in teaching methods which are advisable in the conduct of such rooms. Prerequisites: Courses 101, 102, and 103, and preferably 105. Not open to first-year students. 12 weeks credit.

**DR. HENRY.**

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. 12 weeks' credit. Prerequisites, courses 101 and 102.

**MR. RENSHAW**

113. **Experimental Psychology.**

113A. **Sensation, Imagery, Affection.** Fall Term. 9 weeks' credit.

113B. **Attention, Perception, Association.** Winter Term. 9 weeks' credit.

113C. **Action, Emotion, Thought and Judgment.** Spring Term. 9 weeks' credit.

An advanced course running throughout the year. Consists of two recitations or lectures and two laboratory hours per week. Intended for students who wish a more detailed account of the field of systematic psychology than is possible in course 101. For third and fourth year students, or it may be elected by second year students in special courses or in the A. B. degree course in lieu of psychology 101 and 102.

**MR. RENSHAW**

116. **The Nature of Consciousness.** This course comprises an investigation of the various theories of the nature of consciousness, in the light of the contributions of science and philosophy. Some attention will be given to the question of the relationship of "mind" and body, and to the problem of knowing. Designed for third and fourth year students. Open to second year students in exceptional cases only. Elective. 12 weeks' credit.

**DR. HENRY**
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 1000 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. 12 weeks' credit. Fall, Winter, Spring, and Summer terms.

DR. BROWN, MISS RAWLINSON

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. 12 weeks' credit. Spring Term.

MISS RAWLINSON

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 arrangement students entering the Normal in February may take the second half of the course. First year elective. 27 weeks' credit.

DR. BROWN

Note.—This course is recommended for students who have not had a general survey course in English literature in the high school. Students who have had such a course should elect English, 110, 111, 112.

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. 12 weeks' credit.

MISS RAWLINSON
104. **Rhetoric.** This is the equivalent of 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 courses in Composition. Students must plan to take the course throughout the year. 27 weeks' credit. Fall, Winter, and Spring terms.

**DR. BROWN, MISS RAWLINSON**

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, Macaulay, Carlyle, and Newman. Winter Term.

Senior and third-year elective. 36 weeks' credit. Not offered in 1920-21.

**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. Elective for all other seniors and third-year students. 13½ weeks' credit. Fall and Winter terms.

**DR. BROWN**

107. **Chaucer.** As much as possible of Chaucer's poetry is read in the original with special attention to pronunciation, grammar, and meter. The life and time of Chaucer are carefully studied as an aid to the interpretation of his poetry. A generous amount of reading in the literature of the Middle English period is usually required. Required as 106. With the consent of the department, other courses may be substituted for 106 and 107. 13½ weeks' credit. Winter and Spring terms.

**DR. BROWN**
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.

108. **The English Drama.** In the Winter Term, the class will trace the English drama from its origin in miracle and mystery plays through the period of the moralities, the interludes, and the imitations of Latin tragedy and comedy to the work of Lyly, Green, Peele, Kyd, Marlowe, and Shakespeare. In the Spring Term will be read representative plays of Jonson, Chapman, Beaumont and Fletcher, Webster, and Shirley; heroic dramas by Dryden, Congreve, Farquhar, and Vanbrugh; eighteenth century comedies; and the closet dramas of Byron, Shelley, and Browning. 18 weeks' credit. Winter and Spring terms. Omitted in 1920-21.

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. Fall Term.
B. Landor, Tennyson, and Browning. Winter Term.
C. Mrs. Browning, Clough, Arnold, Rossetti, Morris, and Swinburne. Spring Term.

Senior and third-year elective. 36 weeks' credit. Given in alternate years with English 105. Offered in 1920-21.

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. 12 weeks' credit. Fall Term.

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
DETAIlS OF DEPARTMENTS

poetry with classes. First-year elective. Intended for grade teachers especially. 12 weeks' credit. Winter Term.

MR. SPRAU


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 in 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. 18 weeks' credit. Winter and Spring terms. Offered in 1920-21.

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. 27 weeks' credit. 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. 12 weeks' credit. 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. 12 weeks' credit. Fall and Winter terms.
117. **The English Epic.** A study of the general characteristics of the epic. The class will make a careful study of "Paradise Lost." Selections will be read from other epics for comparative study. Open to third-year and fourth-year students. 9 weeks' credit. Fall Term. **DR. BROWN**

118. **Visiting Courses.** Where students' programs will not permit regular enrollment in courses in literature in which they may be interested, or where they cannot find time to do the regular required work in such courses, they are invited and urged to attend the classes in such courses for the recitation and lecture work only. Much can be gathered from visiting such courses systematically. English 105, 108, 109, 110, 111, 112, 113, and 114 may be taken as visiting courses with profit. No units of credit will be given for such work, but in most cases the result will justify the effort.

119. **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**

**MR. WOOD**

**MISS HARRISON**

Note.—Courses 101A and 101B constitute the minimum essential for teaching geography in any grade of the elementary school.

The following courses are required for major work in geography: 101A, 101B, 106, 107A, 109, and any course from the group 102, 103, 104, 105.

The following courses are required for minor work in geography: 101A 101B, and any course from the group 102, 103, 104, 105.

101A. **General Geography.** A study of the chief climatic types and their influences upon life. Brief attention is given to the major mathematical elements of the earth and the general principles of map-making. The following regions are studied:

1. The Tropical Rain Forests: the Amazon Valley.
2. Savannas: the Sudan.
3. Deserts: Sahara and Arabia.
5. Temperate Grasslands: the Kirghiz Steppes.
6. The Tundra: Northern Canada.
12 weeks' credit. Fall, Winter, Spring, and Summer terms. **MISS HARRISON**
101B. **General Geography.** The purpose of this course is to acquaint the student with the general principles that are applied in the study of the geography of a region. The elements of location, area, climate, relief, rocks, minerals, soils, coastlines, waterways etc. are considered from the standpoint of their influence upon economic and social conditions, and upon the distribution of people. The work is based upon the study of specific regions. Prerequisite: course 101A. 12 weeks' credit. Fall, Winter, Spring, and Summer terms. 

**MR. WOOD**

102. **Geography of North America.** A study of the physical, industrial, and commercial relations of the chief sections of North America. 12 weeks' credit. Fall Term. 

**MR. WOOD**

103. **Geography of Europe.** A study of the relation of the continent of Europe to the world as a whole, its physical features, climates, and 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. 12 weeks' credit. Winter and Summer terms. 

**MR. WOOD**

104. **Geography of South America.** A study of the geographic influences in the development and present social, industrial, and commercial life of each of the South American Countries. 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. 12 weeks' credit. 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. 9 weeks' credit. Fall Term. 

**MISS HARRISON**

106. **Meteorology and Climatology.** Causes and effects of variations of temperature, pressure, winds, and humidity; the cloud-forming processes and their relation to precipitation; weather changes and the methods of weather forecasting. The elements and controls of climate; the characteristics and distribution of the major climatic types; the influence of climate on the distribution of population, on occupations, and customs. Not open to first-year students. 12 weeks' credit. Winter Term. 

**MISS HARRISON**

107. **Geology.**

A. **Geographic Geology.** An advanced course in physiography in which is taken up a genetic study of land forms, the materials of which they are made, and the agencies by
which they have been developed. The course includes a study of the economic minerals. Fall Term.

B. Historical Geology. The evolution of the continent of North America. A study of the origin of the larger features of the continent and its mineral resources; the evolution of its plant and animal life. Winter Term.

C. Historical Geology. The general geology of special regions; the geology of important mineral areas; the glacial geology of the home region. One excursion will be taken each week for the field study of the Kalamazoo area. Spring Term. Not open to first-year students. 27 or 36 weeks' credit.

MR. WOOD

Note.—Geology 107A, 107B, and 107C represent a consecutive year's work, but credit will be granted for 107A without taking 107B and 107C.

108. Michigan and Home Geography. A study of the geographic features, and the economic, and industrial conditions of the state. 9 weeks' credit. Spring Term. MR. WOOD

109. Economic and Commercial Geography. The geographic factors influencing industry and commerce; the geography of the regions in which the major raw materials of commerce are produced; the principal trade routes of the world; trade centers; important commercial areas. 12 weeks' credit. Fall, Spring, and Summer terms. MISS HARRISON

110. The Influence of Geography on American History. Geographic factors in history; the influences of geographic conditions on the settlement, development, and governmental policies of the United States. Not open to first-year students. 12 weeks' credit. Winter Term. MISS HARRISON

111. The Geography Conference. One evening each month students preparing to teach in grades three to eight, inclusive, meet for the discussion of such topics as the aims of geography teaching in the elementary school, 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, selection of illustrative materials. MR. WOOD and MISS HARRISON
HISTORY AND SOCIAL SCIENCE

MR. BURNHAM

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 beginnings of state and national government. Elective. 12 weeks' credit. Fall Term. MR. BURNHAM

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 industrial revolution and its consequences, the rising tide of democracy, the slavery controversy, the sectionalization of the country and the Civil War are among the chief topics studied. Elective. 12 weeks' credit. Winter Term. MR. BURNHAM

103. United States History—From 1865 to Our 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. 12 weeks' credit. Spring Term. MR. BURNHAM

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 is a study of 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 upon our debt to the Greeks for the elements which they contributed to modern civilization. Elective. 12 weeks' credit. Fall Term. MR. BURNHAM

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 transition from the Republic to the Empire, and the social, political, legal, and cultural life of
Imperial Rome are the chief topics emphasized. Elective. 12 weeks' credit. Winter Term. MR. BURNHAM

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. 12 weeks' credit. Spring Term. MR. BURNHAM

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. Not open to first-year students. Elective. 12 weeks' credit. Fall Term. MR. MOORE

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. Not open to first-year students. Elective. 12 weeks' credit. Winter Term. MR. MOORE

109. Modern Europe. 1870-1920. 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. Not open to first-year students. Elective. 12 weeks' credit. Spring Term. MR. MOORE

110. United States History. 1865-1877. The period of Reconstruction. This course is an intensive study of the recovery of the nation during the years immediately following the Civil War. Open to third-year and fourth-year students only. Elective. 9 weeks' credit. Fall Term. MR. BURNHAM

111. United States History. 1877-1901. A study of the rapid industrial progress of the country during this period and of the problems growing out of that development. The tariff, the currency, trusts, labor organizations, and reform movements are among the topics studied. Open to third-year and fourth-year students only. Elective. 9 weeks’ credit. Winter Term. MR. BURNHAM

112. United States History. 1901-1920. The era of Roosevelt and of Wilson. Social unrest and new social and political
ideals, Progressive legislation, America as a World Power and its part in the Great War. Problems of the present. Open to third-year and fourth-year students only. Elective. 9 weeks' credit. Spring Term.  

**GOVERNMENT**

101. **Community Civics.** The aim of this course is: (1) to show the importance of health, protection of life and property, recreation, education, wealth, civic beauty, transportation, communication, labor, charities, etc., as elements of community welfare; (2) to present the state, local and private agencies that exist to foster these elements; (3) to stimulate an active desire for intelligent response to civic obligations. Elective. 9 weeks' credit. Fall Term.  


103. **Comparative Government.** A study of the principal features of the governments of England, and her self-governing colonies, of France, Germany, Belgium, Switzerland. Elective. 9 weeks' credit. Spring Term.  

**ECONOMICS**

101. **Principles of Economics.** A study of the fundamental laws and principles underlying the production, distribution, exchange, and consumption of wealth. The course is designed primarily but not exclusively for commerce, senior high, and A. B. degree students. Not open to first-year students. 24 weeks' credit.

A. Rise of modern industry; labor, nature, and capital as factors in production; wealth consumption; business organization; value and price; distribution of wealth as rent, interest, wages, and profits. Fall Term.

B. Principles studied in 101A are applied to practical economic problems including money and banking, savings and investments, railroads, foreign trade, monopolies, trusts, taxation, the labor situation, social insurance and socialism. Winter Term.

Students who have time for only one term of economics may elect 101A as a 12 weeks' course.  

102. **Money and Banking.** An intensive study of the principles of money and banking, including a critical analysis of the chief currency and banking systems of the present day. Not open to first-year students. 12 weeks' credit. Spring Term.
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. Not open to first-year students. 12 weeks' credit. Spring Term.

MR. MOORE

**SOCIOMETRY**

101. **Sociology.** Historical and descriptive study of the origins, kinds, elements, and structure of society. An attempt to interpret and illustrate the scope, purpose, and method of sociology, and to bring within the comprehension of students a rational outline of social evolution. Elective, not open to first-year students. 9 or 12 weeks' credit. Fall Term.

DR. BURNHAM

102. **Sociology.** A study of the social constitution with emphasis placed upon the character and efficiency of organization. The functions of organization in social control. Social ideals and tests for progress. The field and methods of social investigation. Elective, with Sociology 101 required as prerequisite. Not open to first-year students. 9 or 12 weeks' credit. Winter Term.

DR. BURNHAM

103. **Sociology.** A study of current constructive and reconstructive social activities. Home, neighborhood, community, occupational, and professional units, will be discussed with reference to the relations of provincial and class distinctions to the inclusive social organizations. A tentative program for social welfare and advancement will be derived. Elective, with Sociology 101 and 102 required as prerequisites. Not open to first-year students. 9 or 12 weeks' credit. Spring Term.

DR. BURNHAM

Note.—Students who desire to do a year of work in Sociology, should take courses 101, 102, and 103 in sequence; or 101 and 102 and Bio-Sociology (see Biology Department) or Educational Sociology (see Education Department).

113. **Sociology.** A study of social relations and activities in small communities. An elementary text in general sociology is read, and a textbook dealing specifically with village and country life is studied. A collection of source materials illustrating the co-operation of teachers and schools in local com-
munity activities is used. Required in Limited Certificate Course, elective for first-year students in other courses. 12 weeks’ credit. Fall, Winter, Spring, and Summer terms.

DR. BURNHAM

114. Sociology. This is Sociology 101 already described; and is given with such modifications as adapt the work to the needs of second-year students who can elect but one term of sociology. Students who have had this course, and who wish later to complete a year of work in sociology may do so by taking Sociology 102 and 103. 12 weeks’ credit. Winter, Spring, and Summer terms.

DR. BURNHAM

HOUSEHOLD ARTS

MISS MOORE
MISS THIELEMAN
MISS BLAIR
MISS MATTESON

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 must have completed 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.

FOODS AND COOKERY

101-A, B, C. Foods and Cookery. General review of fundamental principles of cooking. The course includes the study, planning, and cooking of breakfasts, luncheons, dinners, and suppers. It gives practice to students in lectures and demonstrations such as are useful in general teaching. It aims to develop skill in technique of cooking. Required of those wishing to major in foods and cookery. Two-hour periods four times a week. Fall, Winter, and Spring terms. 36 weeks’ credit.

MISS MOORE, MISS THIELEMAN

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. 12 weeks’ credit.

MISS MOORE

105. Home Sanitation and Management. Topics: The house, its location, structure, arrangement of rooms, heating, lighting, ventilation, furnishing, systematic housekeeping, cost of living,
and keeping of accounts. With this some practical work in cleaning and care of plumbing is given. Elective. Winter Term. 12 weeks' credit. MISS MOORE


110. Elementary Cookery. This course aims to give a working knowledge of the fundamental principles of cooking. Planning and serving of meals in the home. Not credited on special Household Art Course. Open to students who wish to elect a course in cooking. Fall, Winter, and Spring terms. 12 weeks' credit. MISS MOORE, MISS THIELEMAN

114. Rural Course. This course gives practice in simple cooking lessons which can be used in a rural school. Discussion of hot lunch problem. Preparation of foods which could be served warm at the school. Fall Term. 6 weeks' credit. MISS THIELEMAN

CLOTHING AND TEXTILES

101-A, B, C. Clothing.
A. General review of fundamental stitches and processes used in making undergarments preparatory to teaching the same kind of work to grade and high-school classes. Illustrative materials for teaching worked out. Student demonstrations required each term. Fall Term. 12 weeks' credit.
MISS BLAIR, MISS MATTESON

B. Study of color, line, and general principles of design of clothing. Simple problems carried out in middy blouse, waist, and skirt. Problems to be used in teaching this work emphasized. Winter Term. 12 weeks' credit.
MISS BLAIR, MISS MATTESON

C. A study of the problems involved in the planning and making of children's clothing. Infants' layette planned and representative garments made. Child's problems 2-6 years required. Lingerie dress, designed and made as test of general ability in technique. Spring Term. 12 weeks' credit.
MISS BLAIR, MISS MATTESON

104. Clothing. A course in millinery consisting of a study of line, color, and general fitness to individual. Paper pattern work given and buckram frames made from patterns. Practice in wiring and covering, with velvet substitute for skill in workmanship. Various edge and crown finishes given. Remodeling
and rewiring ready-made frames and covering with velvet. Making of trimmings. Making two practice wire frames from given measurement, third frame covered with maline, lace, braid, or georgette. Elective. 12 weeks’ credit. Fall and Spring terms.

105. Industrial History. A background which furnishes a basis for necessary appreciation of content in clothing and handwork courses. Winter Term. 12 weeks’ credit. MISS BLAIR

106. Clothing. Advanced dressmaking includes cutting and fitting of “French” lining. Making of semi-fitted lining to be used in lingerie or light-weight silk dress. Designing a dress for another student, emphasis upon fitness to the individual. Making of the pattern from a chosen design, using only a plain foundation pattern as a guide. Making of a dress from this pattern, emphasis upon fitting, decoration, and finishing. Elective. 12 weeks’ credit. Spring Term. MISS BLAIR

107. Clothing—Art Needlework. A study of the general types of decorative needlework and application to household furnishings and clothing. Fall Term. 6 weeks’ credit. MISS BLAIR

114. Clothing—Rural. Elementary clothing work as basis for teaching simple garment work in rural schools. Fall Term 6 weeks’ credit. MISS MATTESON

INDUSTRIAL ARTS

MR. WEAVER

101. Woodshop. An introductory course in hand woodworking. Includes blue print reading, elementary working drawing, and fundamental tool processes. Selection, care, and use of suitable tools, materials, and supplies. Fee $3.00. 12 weeks’ credit. Fall, Winter, and Summer terms. MR. SHERWOOD

102. Woodshop. A continuation of course 101 but also open to those students who have had suitable preparation in the elements of wood-working. More advanced work including principles of construction and wood finishing. Consideration given to courses of study in shopwork for junior high school classes. Fee $3.00. 12 weeks’ credit. Winter, Spring, and Summer terms. MR. SHERWOOD

103. Woodshop. Use and care of wood-working machinery. Cabinet construction and wood finishing as applied to school and home apparatus and furniture. Fee $3.00. 12 weeks’ credit. Spring and Summer terms. MR. HUFF
104. **Pattern-Making and Molding.** The aim of this course is to give a practical insight into the field of pattern-making by presenting the underlying principles and tool processes, methods of construction and use of shop kinks. Making typical patterns involving solid, split, and loose piece patterns, core boxes, and the laying up of simple molds and castings in soft metals. Material fee $3.00. 12 weeks' credit. MR. HUFF

106. **Machine Shop Practice.**

A. Elementary machine work using lathe, drill-press, milling machine, and bench. Projects involving centering, facing, turning, thread cutting, drilling, and plain milling. Material fee $3.00. 12 weeks' credit. Fall and Summer terms. MR. WEAVER

B. More advanced work involving taper-turning, boring, reaming, milling, babbitting bearings, and scraping, using emery grinder as project. Material fee $3.00. 12 weeks' credit. Winter and Summer terms. MR. WEAVER

C. Gear-cutting, turning and milling reamers and taps. Advanced project of 2 H.P. gasoline engine. Tool grinding and finishing grinding operations. Use of jigs and fixtures, heat treatment of steel. 12 weeks' credit. Spring and Summer terms. MR. HUFF

108. **Mechanical Drawing.**

A. A course for those who have had no previous preparation. Instruction is given in the use and care of instruments, penciling simple line exercises, geometric problems, lettering and inking. 12 weeks' credit. Fall, Winter, Spring, and Summer terms. MR. HUFF

B. A course in the theory and fundamentals of working drawings, surface development, orthographic, isometric and cabinet projection, lettering and inking. 12 weeks' credit. Winter, Spring, and Summer terms. MR. HUFF

C. Screw threads, standard fastenings, simple machine drawings with details and assemblies. Shop sketching. 12 weeks' credit. Spring and Summer terms. MR. HUFF

111. **Machine Drawing.**

A. Elementary machine design. Cams, gears, link motions, shop drawings, tracing, blue printing. 12 weeks' credit. Fall, Winter, Spring, and Summer terms. MR. HUFF

B. Continuation of shop drawing, sketching, working drawings of machine details, semi-original machine design and detailing. 12 weeks' credit. Winter, Spring, and Summer terms. MR. HUFF

C. Large assembly and cross-section drawing of gasoline engines or power-driven machinery. 12 weeks' credit. Winter, Spring, and Summer terms. MR. HUFF
112. Architectural Drafting.

A. Architectural lettering, conventions, details of house framing and construction original plans for summer cottage or small building, estimating, etc. 12 weeks' credit. Fall, Winter, and Summer terms.

B. Semi-original architectural drawing. Study of prize houses, architectural styles, influence of prominent architects, lectures and lantern slides. 12 weeks' credit. Winter, Spring, and Summer terms.

C. Continuation of architectural drawing. Original plans, elevations, details, tracing, blue printing. 12 weeks' credit. Spring and Summer terms.

116. Printing. An elementary course in the art of printing. Work in typesetting, proofreading, imposition, presswork, distribution, etc. Visits to shops and lectures by competent men from the trade. Shop fee, $2.00. 12 weeks' credit.

117a. Auto Mechanics. A study in the operating principles of the internal combustion engine and the function of the various units in the automobile chassis. Includes driving instruction and minor adjustments and repairs. Fee $3.00. 12 weeks' credit. Fall Term.


117c. A course in the complete overhaul of all units making up the modern automobile chassis. Fee $3.00. 12 weeks' credit. Spring Term.

120. Theory and Practice. A combination recitation and lecture course in subjects directly connected and allied to manual training in general. It covers history and development of manual training, courses of study, shop invoices, shop practice, administration, manufacturing of lumber, iron, etc., location and setting up of equipment, book reports, illustrated talks, etc. 12 weeks' credit. Winter and Summer terms.

MR. HUFF
MISS ZIMMERMAN AND ASSISTANT

99. **Elementary Latin.** 72 weeks high-school credit.
   This course is designed to meet the needs 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. MISS ZIMMERMAN

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. 36 weeks' credit. Fall, Winter, and Spring terms. MISS ZIMMERMAN or Assistant

102. **Vergil.** The first six books of the Æneid 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. 36 weeks' credit. Fall, Winter, and Spring terms. MISS ZIMMERMAN or Assistant

103. **Latin.**
   A. Cicero's De Senectute and De Amicitia, with prose composition.
   B. Livy. Selections from books 1, 21, and 22.
   C. Latin Comedy. Selected plays of Plautus and Terence. 36 weeks' credit. MISS ZIMMERMAN

104. **Latin.**
   A. Horace. Selections from the Odes and Epodes.
   B. Horace. Selections from the Satires and Epistles.
   C. Letters of Cicero and Pliny the Younger. A study of Roman political institutions during the time of the Republic, and social conditions at Rome during the early empire. 36 weeks' credit. MISS ZIMMERMAN

105. **Mythology.** A study of the mythology of Greece and Rome, with special reference to the use of myths in poetry and art, and the use of these stories in the teaching of children. The course is not limited to classical students. 12 weeks' credit. MISS ZIMMERMAN

**LIBRARY COURSE**

A course of ten lectures on practical library work will be offered each year, and is required of all students some time during their first year. No credit. Two sections, each term. Fall, Winter, and Spring terms. MISS CHAPMAN, MISS FRENCH
DETAILS OF DEPARTMENTS  

MATHEMATICS

MR. BLAIR

100A. Algebra Beginning with Quadratics. 12 weeks' credit. Fall Term.

100B. Algebra and Solid Geometry. 12 weeks' credit. Winter Term.

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 twenty-four weeks, or two-thirds the high-school credit.

100C. Solid Geometry. Designed for students who present two years of high-school mathematics, but who have not studied solid geometry. 12 weeks' credit. Spring Term.

MR. EVERETT

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. 12 weeks' credit. Fall, Winter, Spring, and Summer terms.

MR. BLAIR

103. Trigonometry. Plane trigonometry, trigonometric functions, identities, inverse functions, solutions, solution of triangles by logarithms. 12 weeks' credit. Fall, Spring, and Summer terms.

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. 15 weeks' credit. Fall Term.

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. 15 weeks' credit. Winter Term.

103C. College Algebra and Analytic Geometry. Completes substantially all of the work offered in course 104B. Meets five times a week. 15 weeks' credit. Spring Term.
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. 12 weeks' credit. Fall and Summer terms. MR. EVERETT

104A. **College Algebra and Analytic Geometry.** Permutations and combinations, the circle, quadratic equations, complex numbers, polynomials. 12 weeks' credit. Winter Term. MR. EVERETT

104B. **College Algebra and Analytic Geometry.** The parabola, ellipse, and hyperbola, higher plane curves. A brief survey of solid geometry. 12 weeks' credit. Spring Term. MR. EVERETT

105. **Calculus.** An elementary course in differential calculus. Presupposes course 104B or course 103C. 12 weeks' credit. Fall Term. MR. EVERETT

106. **Calculus.** A continuation of course 105. 12 weeks' credit. Winter Term. MR. EVERETT

107. **Calculus.** A course in integral calculus. 12 weeks' credit. Spring Term. MR. EVERETT

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. 12 weeks' credit. Winter Term. MR. EVERETT

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. 12 weeks' credit. Spring Term. MR. EVERETT

112. **Shop 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. Typical problems will have to do with the size and adjustments of pulleys, figuring of gear ratios, and the use of linear and circular verniers. This course is designed to meet the requirements of industrial arts students who desire only the applications of mathematics to specific situations, such as are encountered by the operating mechanic or shop foreman. Students who are looking forward to a
career as efficiency or mechanical engineers should elect during the Fall Term of the first year of residence either course 103A or 104. 12 weeks’ credit. Winter Term.

MR. EVERETT

121. Differential Equations. 12 weeks’ credit. Fall Term.

MR. EVERETT

122. Theory of Equation. 12 weeks’ credit. Winter Term.

MR. EVERETT

123. Solid Analytic Geometry. 12 weeks’ credit. 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, and 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. 12 weeks’ credit. Winter Term.

MR. BLAIR

MODERN LANGUAGE

MISS ZIMMERMAN

MRS. HOCKENBERRY

MR. DES MARAIS

FRENCH

101. First-Year French. This course will consist of (1) careful drill in pronunciation, (2) the rudiments of grammar, (3) the reading of 175-250 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 French when spoken and to answer ordinary questions in the language. 36 weeks’ credit. Fall, Winter, and Spring terms.

MR. DES MARAIS, MRS. HOCKENBERRY


MR. DES MARAIS
103. Modern Prose Narrative and Drama.


Three hours through the year. 27 weeks' credit.

MRS. HOCKENBERRY

104A. Survey of French Literature; including the 16th, 17th, 18th and 19th centuries. This course is especially fitted for students who intend to specialize in French. Fall, Winter, and Spring terms. 18 weeks' credit.

MR. DES MARAIS

104B. Teachers’ Course. This course is designed for students who intend to teach in the high school. It includes a general review of French grammar, and of the principles of pronunciation, from the point of view of the teacher of elementary classes; the psychology of language instruction; the value of French as compared with that of other foreign languages; an analysis of the aims and values in French instruction; its place in the high school; comparison of the grammatical method and the direct and translation methods; discussion of the whole problem of securing efficient and economical methods of teaching French. Reviews of timely articles in modern language journals will add to the methodology of the subject. Observation and practice teaching are required in conjunction with the above. This course is open to students of third-year French as well as to fourth-year students, upon consultation with the instructor. Fall, Winter, and Spring terms. 18 weeks’ credit.

MR. DES MARAIS

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. 36 weeks’ credit.

MISS ZIMMERMAN

104. Four-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. 36 weeks’ credit.

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.
   B. A study of nineteenth century drama. Senior and third-year elective, 27 weeks' credit. 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. 36 weeks' credit. Fall, Winter, and Spring terms. MR. DES MARAIS

102. Second-Year Spanish. Review of grammar, Spanish composition, conversation, and the reading of selected works by modern authors. Commercial correspondence also receives attention. 36 weeks' credit. Fall, Winter, and Spring terms. MR. DES MARAIS

MUSIC

MR. MAYBEE
MR. HENDERSON
MRS. DAVIS
MISS LIDDY

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. 6 weeks' credit in Music and in Art and Music courses. Fall, Winter, and Spring terms. MISS LIDDY

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. 12 weeks' credit. 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. 6 weeks' 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 the class period as preparation for teaching this subject in the grammar grades. Observation is made in the
Training School. 12 weeks’ credit. Fall, Winter, Spring, and Summer terms.

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. 6 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 folktunes, use of percussion instruments, practice in accompanying, and the writing of original settings. 12 weeks’ credit. 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. 12 weeks’ 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. 12 weeks’ credit. Fall Term.

MR. MAYBEE

113. History and 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. 12 weeks’ credit. Winter Term.

MR. HENDERSON

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. 12 weeks’ credit. Fall Term.

MR. HENDERSON

115. High-School Conducting. This course is intended for students specializing in music, but should prove helpful to stu-
dents who are preparing for high-school work. It will include advanced sight reading and the process of organizing and directing choruses, glee clubs, etc. 12 weeks' credit. Spring and Summer terms.

116. **Music Observation.** Observation of the teaching of music in the Training School. This includes a comprehensive comparative study of the leading systems of public school music. 6 weeks' credit. Fall Term.

117. **Music Observation.** Continuation of 116. 6 weeks' credit. Spring Term.

119-120-121. **Advanced Voice Culture.** Continuation of courses 103-104-105. Extended repertoires using standard songs, selections from operas and oratorios. 6 weeks' credit for each term. Fall, Winter, Spring, and Summer terms.

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 Music Organization, page 26. Rehearsals will be Tuesday evening from 7 to 8 o'clock, and Wednesday morning at 11 o'clock. 12 weeks' credit for a year's work.

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

124. **Senior Girls' Glee Club.** Required of all senior Music, and Music and Art students. Regular meetings one each week. See Music Organizations, page 27.

125. **Orchestra.** Regular rehearsal Monday, 4 p. m. See page 27.

126-127. **Musical Composition and Analysis.** A continuation of course 114. 12 weeks' credit for each term. Winter and Spring terms.

**PENMANSHIP**

*MR. GREENWALL*

A credit in penmanship is now 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 of writing. Persons who have credits for penmanship from other institutions or who hold a Zaner or Palmer certificate should present

*Absent on leave 1920-21.
the same for consideration on entrance. The work must be taken until a good style of writing is acquired. Skill and not time is the important factor. Students are required to enroll during the first term of their first year.

MR. GREENWALL

PHYSICAL EDUCATION FOR MEN

MR. SPAULDING

101. Physical Education. Football, soccer football, playing rules, and practical work. Cross-country running, group games. 12 weeks' credit. Fall Term.

MR. TAYLOR

102. Physical Education. Elementary school gymnastics, group games, organized mass athletics, elementary apparatus work, basketball and track, rules and practice. 12 weeks' credit. Winter Term.

103. Physical Education. Outdoor games, mass athletics, track and baseball. 12 weeks' credit. Winter Term.

104. Physical Education. Football, soccer football, cross-country running, group athletics, practice coaching. 12 weeks' credit. Fall Term.


106. Physical Education. Practical track athletics, practical baseball, playground games and athletic competition, officiating. 12 weeks' credit. Spring Term.

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. 6 weeks' credit. Fall Term.

108. Gymnastic Theory. General principles, control and class management, methods and technique, formations, gymnastic commands, progressive gymnastics. 6 weeks' credit. Winter Term.

109. First Aid. Knowledge and skill in meeting emergencies. Practice in bandaging, dressings, antiseptics, disinfectants, etc. 6 weeks' credit. Spring Term.

110. Anthropometry and Physical Examination. This course is designed to equip men to make the ordinary physical examinations required in public schools. Practice will be given in the
technique of measurements and the usual physical examinations. 6 weeks' credit. Fall Term. MR. TAYLOR

111. **Physical Diagnosis.** This course presupposes 110. Theory and practice of thorough physical diagnosis. It includes the study of appearances, conditions, defects and deformities likely to be met with in the examining room. Heart and lung tests. 6 weeks' credit. Fall Term. MR. TAYLOR

112. **Massage and Hydrotherapy.** Use of massage in treatment of sprains, bruises, paralysis, etc. Use of hot and cold applications. 6 weeks' credit. Fall Term. MR. TAYLOR

113. **Football Technique.** Different styles of offensive and defensive play, football strategy. 6 weeks' credit. Fall Term. MR. TAYLOR

114. **Kinesiology.** Corrective gymnastics. The mechanics of bodily movements, medical gymnastics, corrections for deformities, infantile paralysis, etc. 12 weeks' credit. Winter Term. MR. SPAULDING

115. **Basketball Technique.** A course for coaches, team development of defense, formations and signals. General discussion and comparison of various styles of play. 6 weeks' credit. Winter Term. MR. SPAULDING

116. **Physiology or Exercise.** Physiology applied to problems of exercise. Study of the circulation with respect to different types of exercise. 6 weeks' credit. Spring Term. MR. TAYLOR

117. **Physical Education Administration.** Needs, fundamental principles and purposes governing the big movement of physical education. General principles of public school physical training. Methods and principles underlying school recreation in general. 12 weeks' credit. Spring term. MR. TAYLOR

118. **Baseball Technique.** Fundamentals of batting, bunting, base running, position play, offensive team work. 6 weeks' credit. Spring term. MR. SPAULDING

119. **Technique of Track Athletics.** Fundamentals of track and field athletics. Organization, conduct, officiating of meets, and the training of track teams. 6 weeks' credit. Spring term. MR. TAYLOR

121. **Equipment of Playgrounds and Gymnasiums.** 6 weeks' credit. Winter term. MR. TAYLOR
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.

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 shag ball. Winter and Spring terms.

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). 12 weeks' credit. Fall and Spring terms.

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.

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 the different ages is made. Notebook is required for this course. Practice work continues in the remaining two periods. Winter and Spring terms.

110. **General Gymnastics.** This course includes the simple practice work in tactics, calisthenics, light and heavy apparatus, with analysis of its progression. 6 weeks' credit. Fall Term.

111. **Folk-Dancing.** A course consisting of German, Swedish, Danish, English, Scotch, Russian, and American folk-dances. 6 weeks' credit. Fall Term.

112. **Aesthetic Dancing.** This subject will be continued throughout the remainder of the two-year course. Both Gilbert and Chalif exercises and dances will be taught. 6 weeks' credit. Winter Term.

113. **General Gymnastics and Aesthetic Dancing.** 6 weeks' credit. Spring Term.

114. **General Gymnastics and Aesthetic Dancing.** 6 weeks' credit. Fall Term.

115. **General Gymnastics and Aesthetic Dancing.** Winter Term.

116. **General Gymnastics and Aesthetic Dancing.** Advanced calisthenics and heavy apparatus. Spring Term.

117. **Swedish Theory and Practice.** Study of the Swedish system of physical education, of the progression, selection, and arrangement of exercises in the Swedish Day's order. 12 weeks' credit. Winter Term.

118. **Swedish Theory and Practice.** Continuation of course 117. Emphasis is placed upon the planning and teaching of the Swedish Day's order. 6 weeks' credit. Spring Term.

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 is given due consideration. Play activities from the simplest form to the highly organized competitive games are carried on in the gymnasium. 12 weeks' credit. Spring Term.

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. 12 weeks' credit. Winter Term.  
MISS HUSSEY

121. Gymnasium Construction and Equipment. A study of building and equipping of gymnasiums, with consideration of swimming pools and locker rooms. Particular attention is paid to the location and sanitation of the same. 6 weeks' credit. Winter Term.
MISS HUSSEY

122. Games and Athletics. Much of this work will be given out of doors.
(a) A graded course of games arranged to meet the needs of the child at the various stages of development. Outdoor and schoolroom games.
(b) Practice of athletics. Lectures on the theory of athletics, including rules governing track and field events, management of meets, etc. 6 weeks' credit. Fall Term.
MISS GUIOT

123. Methods. A continuation of 110. Methods of teaching general gymnastics; the progressive value of exercises and the use of apparatus studied. Gymnastic work for the schoolroom is given much consideration. 6 weeks' credit. Winter Term.
MISS GUIOT

PHYSICS

MR. FOX

101A. Mechanics. 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 specialize in physics later. Prerequisite, high-school physics. Students electing these courses should plan to do their laboratory work in the afternoons. Laboratory fee, $1.00 per term. 12 weeks' credit. Fall Term. MR. FOX

101B. Magnetism and Electricity. This course should follow 101A. The same general plan is followed as in 101A. 12 weeks' credit. Winter Term. MR. FOX

101C. Heat and Light. This course completes the year's work in general physics. 12 weeks' credit. Spring Term. MR. FOX

102A. Sound. A study of wave motion and sound. This course will consist of two lectures weekly supplemented by laboratory work by the student. 6 weeks' credit. Fall Term. MR. FOX
102B. **Alternating Currents.** An elementary treatment of this important subject designed to familiarize the student with the fundamental principles of the subject. Prerequisite: trigonometry and analytic geometry. A knowledge of integral calculus will enable the student to work out many of the results which otherwise must be taken for granted. 12 weeks' credit. Winter Term. MR. FOX

102C. **Electrical Measurements.** Open to second-year students in physics. A laboratory course of two two-hour periods or one four-hour period. 6 weeks' credit. Spring Term. MR. FOX

107. **Practical Electricity.** Designed especially for Industrial Arts students although others may elect this course. It concerns itself with the many practical 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. Laboratory fee, $1.00. 12 weeks' credit. Spring Term. MR. FOX, MR. SHERWOOD

**RURAL EDUCATION**

**DR. BURNHAM**

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

Courses for training 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. Young people who expect to teach should not miss the significance of these facts.

Two courses are offered here for the preparation of rural school teachers:

A Life Certificate in Rural Education may be secured by high-school graduates after an attendance here of two years. Many districts are now paying wages which justify them in asking for full life certificate preparation on the part of the teachers they employ.

A Limited Certificate, valid in any school in Michigan for three years, may be secured by high-school graduates after an attendance of one year and one summer term. Graduates of this course are in demand in the rural and small village and
town schools at wages which their abbreviated preparation justifies them in expecting.

The foregoing courses are administered by a special Department of Rural Education in which questions of advantageous enrollment 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 normal school 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.

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. A rural sociological seminar meets two afternoons each month, and an annual Rural Progress Day brings students in contact with national and state leaders in rural life. For the past two years, the State Club Leaders have held their March training conference here, and the students' interest in agriculture, home economics, and school club work is thereby increased.

101. **Rural Education.** This course will deal with the general questions of teaching, supervising, and administering rural schools. Executive facility and efficiency in the whole work of the school is the major consideration. Not open to first-year students. 12 weeks' credit. Fall and Summer terms.

DR. BURNHAM

102. **Rural Economics.** Outstanding among the economic problems raised by the great war, is the question of increasing specific intelligence in rural economics. This course is a response to this defined need. A textbook, such as Carver's "Principles of Rural Economics," will be thoroughly studied,
and the course will conclude with a survey of the possibilities of rural school instruction in industrial subjects. Not open to first-year students. 12 weeks' credit. Winter Term.

DR. BURNHAM

103. Sociology. This course is described in the Department of History and Social Sciences. A section will be made for students, especially interested in rural life. Not open to first-year students. 12 weeks' credit. Spring and Summer terms.

DR. BURNHAM

Note.—Students working for a college degree, who wish to elect subjects in this department, should take the foregoing three units.

113. Sociology. This course is described in the Department of History and Social Sciences. It is open to Limited Course and first-year students. 12 weeks' credit. Fall, Winter, and Spring terms.

DR. BURNHAM

102. Principles of Teaching. The aim of this course is to prepare students to teach by presenting the principles of teaching, with special emphasis upon the application of methods most immediately needed by rural teachers, and by observation of teachers in the Training School and Rural Training Schools. Prerequisite to rural practice teaching. 12 weeks' credit. Fall, Winter, and Summer terms.

MISS MUNRO

101. Curriculum and Management. The work of this course will be divided into two parts. (1) Curriculum: The State course of study will be studied and supplemented by content material for the common school branches. This will show teachers what to teach in each subject and grade. (2) Management: This part of the course will be devoted to those factors of the school which make good schoolroom management such as heating, lighting, ventilation, seating, sanitation, the daily program, school law, records, relation of teacher and pupil. Bulletins of the State Department of Public Instruction, and other available material will be used. 12 weeks' credit. Winter, Spring, and Summer terms.

MISS MUNRO

Rural Practice Schools. Observation of assigned problems in rural school organization, and teaching in the Oakwood and Michigan Avenue affiliated schools make up the required unit of practice teaching in rural schools.

MISS MUNRO

Agriculture and Club Leadership. Courses in these subjects are described in the Department of Biology.

MISS HADLEY

Home Economics. Courses in cooking and sewing for rural school teachers are described in these departments, and shopwork is written up in the Department of Industrial Arts.
MISS ROUSSEAU  

101. **Reading.** This course aims to develop in the student ability in the oral interpretation of literature, including forms of prose, poetry, and the drama. 12 or 27 weeks' credit. 

MISS SHAW, MISS ROUSSEAU

A. Basic principles of vocal expression, including correct breathing, and study and drill in the vocal elements. Fall, Winter, Spring, and Summer terms.

B. Further analysis and interpretation of the more simple types of prose and poetry. Winter and Spring terms.

C. Analysis and interpretation of the more difficult types of prose, poetry, and the drama. Spring Term.

102. **Extempore Speaking.** This course aims to develop ease in speaking. It includes a study of the best specimens of modern addresses and frequent practice in the various types of public address. 12 weeks' credit. Fall Term.

MISS ROUSSEAU


MISS SHAW, MISS ROUSSEAU

104. **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 Physical Education Life Certificate Course. 6 weeks' credit. Spring Term.

MISS SHAW

105. **Argumentation and Debate.** This course consists of a thorough study of the principles of argumentation and brief-making. The student will have much forensic practice in debating public questions of the day. Prerequisite, course 102. 18 weeks' credit. Fall, Winter, and Spring terms. MISS SHAW

106. **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. Not open to first-year students. Prerequisite, at least two other courses in this department, or the permission of the instructor. Required of all majors and minors in Speech. 12 weeks' credit. Spring and Summer terms. MISS ROUSSEAU
A TRAINING SCHOOL PLAY
TEACHING

MR. ELLSWORTH AND SUPERVISORS

101-102. Teaching. This course will include (1) observation of lessons taught by the supervisors of the grade, (2) the teaching of classes in the Training School, and (3) the study of individual children. There will be meetings with the supervisors and director of practice, and with heads of departments, for conference, in regard to work and discussion of methods of teaching and general school management.

In so far as possible students in the Life Certificate courses are required to take Teaching 101 (12 weeks' credit) and Teaching 102 (12 weeks' credit) in the same term.

Students in the Limited Certificate Course are required to take Teaching 101. 12 weeks' credit.

Practice facilities for teachers who are preparing to teach in rural schools are provided in easily accessible rural schools by the co-operation of the local district boards of education and the county commissioner of schools in Kalamazoo County.

Students are expected to take part in all the special features of the Training School work. School festivals, parents' receptions, and other special exercises are important factors in the work of the grades, and all who work in the department are required to assist in planning and carrying out these exercises.

Students will meet the director of practice on Saturday at eight o'clock and their supervisors on Tuesday and Thursday at the eight o'clock period for conference.

Required in the Limited Certificate (12 weeks' credit) and Life Certificate course. 24 weeks' credit. Fall, Winter, and Spring terms.

103. Teaching. The privilege of an elective term in teaching is granted only with the permission of the director of practice and consent of the member of the normal faculty with whom enrollment is made. Students attend meetings as directed by supervisor. 12 weeks' credit.
High School

*MISS SMITH, Principal.  
†MR. CAIN

The Normal High School has been organized for the purpose of furnishing a model small high school which will set standards for this field in southwestern Michigan, to provide an educational laboratory for the investigation of secondary school problems, and to give to those students looking forward to high-school positions, an opportunity for directed teaching.

Experience has shown that the first aim, that of furnishing a thorough high-school training to our students, is not incompatible with the function of offering practice teaching, or with the working out of problems in secondary education. The work of the student teachers is done under such close supervision that a high standard of scholarship is maintained.

The Normal High School is on the accredited list of the North Central Association of colleges and secondary schools and of the University of Michigan.

High School Assembly. All high school students meet at one o'clock in the assembly room for twenty minutes, at which time announcements are made. At least once a week a program is given. These programs differ in character. All of them are planned by a committee chosen by the different classes, two from each.

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 will be furnished each term during the year and in addition musical numbers will be furnished for a number of other occasions.

Boys' Glee Club. This organization is open to all boys in

*Resigned.  
†Term begins 1920.
the high school. It meets for rehearsal twice a week. The club furnishes music for entertainments given by the school.

HIGH SCHOOL COURSE OF STUDY

Admission. Pupils who present satisfactory eighth grade certificates will be admitted to first-year classes without examination. Pupils coming from other schools approved by the State Department or by the University will be given credit for work previously done on presentation of certificates of scholarship with full description of work done in each study. To avoid delay applicants should present such certificate before the opening week.

Requirements for Graduation. Sixteen units are required for graduation. (A unit is a subject pursued four or five times a week for thirty-six weeks.) Only those students will be recommended for admission to higher institutions whose work has been above the minimum passing grade, and whose habits of study warrant such recommendation.

The following groups of subjects are offered:

I. English.
II. Foreign Languages: (a) Latin, (b) French, (c) Spanish.
III. Mathematics: (a) Algebra, (b) Geometry, (c) Trigonometry, (d) Commercial Arithmetic.
IV. History: (a) Ancient, (b) Medieval and Modern, (c) English, (d) American, (e) Civics.
V. Science; (a) Geography, (b) Biology, (c) Chemistry, (d) Physics, (e) Agriculture.
VI. Industrial Arts: (a) Drawing and Design, (b) Domestic Art, (c) Domestic Science, (d) Manual Training.
VII. Music.
VIII. Commerce.

All pupils must offer the following units: English 4, Mathematics 2, Science 1, American History and Civics 1, Foreign Language 2.
**PROGRAM OF STUDIES**

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<tr>
<th>9th Grade</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
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<tr>
<td>*ENGLISH 1-2-3</td>
<td>*ENGLISH 4-5-6</td>
<td>*ENGLISH 7-8-9</td>
<td>*ENGLISH 10-11-12</td>
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<td>*ALGEBRA 6-7-8</td>
<td>*GEOMETRY 9-10-11</td>
<td>Algebra 12-13</td>
<td>Trigonometry 103</td>
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<tr>
<td>Latin 1-2-3</td>
<td>Latin 4-5-6</td>
<td>Solid Geometry 14</td>
<td>Latin 10-11-12</td>
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<tr>
<td>Anc. History 1-2-3</td>
<td>M. &amp; M. History 4-5-6</td>
<td>Latin 7-8-9</td>
<td>*U. S. HIST. and CIVICS 10-11-12</td>
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<tr>
<td>†Music 1-2-3</td>
<td>Biology 1-2-3</td>
<td>Engl. Hist. 7-8-9</td>
<td>Physics 1-2-3</td>
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<tr>
<td>†Art 1-2-3</td>
<td>Dom. Science 1-2-3</td>
<td>Chemistry 1-2-3</td>
<td>†Mec. Draw. 11-12-13</td>
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<td>*PHY. ED.</td>
<td>Dom. Art 1-2-3</td>
<td>Mec. Draw. 8-9-10</td>
<td>†H. S. Shop 2-3-4</td>
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<td>†Typewriting 1-2-3</td>
<td>Com'l Arith. 1-2-3</td>
<td>†French 1-2-3</td>
<td>French 4-5-6</td>
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<tr>
<td>‡Shorthand 1-2-3</td>
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*Required subjects in capitals.
†May be elected in any year.
‡May be elected in 10th or 11th grades only.
¶May be elected in 11th or 12th grades only.
ATHLETIC FIELD
Details of Departments

ART

1. Study of perspective principles and application in decorative work as found in studies from nature and simple objects.
   Study of lettering and poster making for school activities and commercial problems. 12 weeks' credit. Fall Term. MISS JUDSON, MISS STEVENSON

2. Art. Figure work in pencil, ink, charcoal, and color leading to commercial illustration. 12 weeks' credit. Winter Term. MISS JUDSON, MISS STEVENSON

3. Art. Illustration work for year book. More advanced problems in poster work, showcards, etc. Problems in design applied to handwork. 12 weeks' credit. Spring Term. MISS JUDSON, MISS STEVENSON

BIOLOGY

1-2-3. 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. 36 weeks' credit. Fall, Winter, and Spring terms. MISS HADLEY

23-24-25. Agriculture and Nature-Study. (a) A study of the different types of cattle, horses, sheep, swine, and important breeds of poultry. The care of milk, separation of cream, and the Babcock test will be considered. Field work includes inspection of typical farms about Kalamazoo. A study of trees with particular attention to the farm woodlot. Work in forest nursery. Elements of landscape gardening.
   (b) Tests and experiments dealing with temperature, air, moisture, porosity, etc. Discussions on tillage and fertilizers. A study of the structure, functions, and hygiene of the human body. Sanitation of the home, school, and community.
   (c) Classification and culture. Experimental plots in the school garden, plant diseases, judging of crops, with special
emphasis upon corn. A consideration of the common native birds, weeds, and insects with particular attention to their relation to agriculture. Identification of spring flowers. 36 weeks' credit. Fall, Winter, and Spring terms.

MISS HADLEY

23, 24, 25 not open to high-school students except by special permission.

CHEMISTRY

1-2-3. 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. 36 weeks' credit. Fall, Winter, and Spring terms.

COMMERCE

1-2-3. 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. 36 weeks' credit. Fall, Winter, and Spring terms.

1-2-3. 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. 18 weeks' credit. Fall, Winter, and Spring terms.

1-2-3. Shorthand. The aim of this course is to give the student a thorough knowledge of the principles of the Gregg system of shorthand. Much supplementary work will be made use of. 36 weeks' credit, Fall, Winter, and Spring terms.

HOUSEHOLD ART

1-2-3. 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, embroidery stitches applied to a waist and making of waist, simple lingerie dress. 18 weeks' credit. Fall, Winter, and Spring terms.

1-2-3. Cooking. This is a general course in cooking, 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, twice a week. 18 weeks’ credit. Fall, Winter, and Spring terms.

MISS THIELEMAN

ENGLISH

The aim in first-year English is: (1) To develop in the student as far as possible, the ability to tell a straight-forward, well-balanced, pointed story in easy, familiar English. (2) To acquaint him with the essential elementary details of sentence-structure, paragraphing, capitalization, preparation of manuscript, and punctuation. (3) To bring him to a knowledge and appreciation of a number of well-known stories that are genuine literature.

Each student in any English class is required to read one book a month besides his regular class reading.

First Year

1. **English.** Required in first year High School course. The work consists of both composition and a study of literature. Composition will embrace both written and oral work. The oral composition will be chiefly narrative, reproducing the stories of standard writers. The written composition will include single narrative paragraphs, fables, incidents, and situations, based on experiences, and social letters, which will be written at least once a month throughout the year to real correspondents. The time devoted to grammar will be spent on sentence classification, whole and simple subjects and predicates, complements and modifiers, and oral sentence analysis. In the work in literature, classic and legendary narrative prose, and a few simple narrative poems will be studied. 12 weeks’ credit. Fall Term. MRS. BISCOMB, *MISS SMITH

2. **English.** Required in first-year High School course. The work is divided as in English 1. In oral composition the narratives are chiefly reproductive. The students will write stories of two, three, or four paragraphs in length. The review in grammar will include a careful study of nouns, pronouns, adjectives, and adverbs. The work in literature will be a continuation of English 1. 12 weeks’ credit. Winter Term. MRS. BISCOMB, *MISS SMITH

3. **English.** Required in first-year High School course. This course includes: (1) In oral composition, original stories and some original exposition. (2) In written composition, continued work in longer stories, some exposition, and social letters. (3) Under grammar, particular attention will be paid to verbs, conjunctions, interjections, and prepositions. (4) Literature as in English 1 and 2. 12 weeks’ credit. Spring term. MRS. BISCOMB, *MISS SMITH

*Resigned.
Second Year

4. **English.** This is a course in oral English and is required of all in the tenth grade. 12 weeks' credit. Fall Term.

5. **English.** This is a course in composition and is required of all tenth grade students. It consists of a study of some of the current magazines and newspapers. If the class so wishes, a High School paper may be prepared as a class exercise. With this comes advanced work in description and narration. 12 weeks' credit. Winter Term. *MISS SMITH*

6. **English.** This term is given entirely to the study of literature. Some of the classics that may be studied are as follows: "Twelfth Night," "A Tale of Two Cities," and "Democracy To-day." The aim of this course is to help the student acquire a better appreciation of literature and to become well acquainted with at least a few good books. This course is also required of all tenth grade students. 12 weeks' credit. Spring Term. *MISS SMITH*

Third Year

7. **English.** Required in third-year High School course. Five periods a week, two for literature, two for composition and rhetoric, and one for reading. In literature, a careful study is made of the short story, one novel, and several essays. The composition, which is both oral and written, includes the writing of letters, original abstracts, and outlines, news items, editorials, short stories in imitation of those studied, essays, class discussions, and short talks on outside reading and assigned topics. One period each week is given to the reading and study of selected magazine and newspaper items. 12 weeks' credit. Fall Term. *MRS. BISCOMB*

8. **English.** Required in third-year High School course. Five periods a week. During this term, two or three of Shakespeare's plays, several narratives, and many lyric poems are read and studied. The work in composition as outlined under English 8 is continued. 12 weeks' credit. Winter Term. *MRS. BISCOMB*

9. **English.** Required in third-year High School course. Six weeks of English Literature. Six weeks of Composition. 12 weeks credit. Spring Term. *MRS. BISCOMB*

Fourth Year

10. **English.** Required in fourth-year High School course. Five periods a week. The work in literature includes a rapid survey of the history of English literature, supplemented by a generous amount of reading. The composition work of the year, one period a week, is oral and written. Stories, letters, *Resigned.*
editorials, reports, debates, and orations receive some attention. Magazine and newspaper work one day each week throughout the year. 12 weeks' credit. Fall Term. MRS. BISCOMB

11. English. Required in fourth-year High School course. The work in reading, composition, and literature as outlined under English 10 is continued. 12 weeks' credit. Winter Term. MRS. BISCOMB

12. English. Required in fourth-year High School course. Five periods a week, one for a survey of the history of American literature, this to include important biographical facts of the chief writers; two for a rapid reading of their most worthy productions. Composition and reading as outlined under English 10 and 11 are continued. 12 weeks' credit. Spring Term. MRS. BISCOMB

FRENCH

1-2-3. First-Year French. This course will consist of (1) careful drill in pronunciation, (2) the rudiments of grammar, (3) the reading of 175-250 pages of graduated texts, with constant practice in easy variations of the sentences read; (4) writing French dictation, and (5) the memorizing of French selections. It will be an aim from the outset to give training in understanding French when spoken and to answer ordinary questions in the language. 36 weeks' credit. Fall, Winter, and Spring terms. MRS. HOCKENBERRY

4-5-6. Second-year French. This course includes a review of grammar, a continuation of modern prose and drama, together with paraphrases and abstracts of the texts read. The latter will be selected from Daudet, "Trois Contes Choisis;" "Le Petit Chose;" De la Brete, "Mon Oncle et Mon Cure;" France "L'Tbeille;" Augier, "Le Gendre de M. Poidier;" About, "Le Roi des Montagnes;" Legouve et Labiche, "La Cigale chez les Fourmis." Topics will be discussed relating to modern France and French life. Fall, Winter, and Spring terms. 36 weeks' credit. MRS. HOCKENBERRY

GEOGRAPHY

1. Physical Geography of the Lands. This course includes the following parts: (1) A study of the common minerals and rocks—the materials from which the lands are made; (2) a study of the relief features of the lands by the means of pictures, slides, models, blackboard sketching, contour mapping, and field work in the vicinity of the school; (3) the study of the relief of type regions of the earth with a view to illustrating the principles
developed in parts (1) and (2). Five periods a week, partly for field and laboratory work and partly for recitations. 12 weeks' credit. Fall Term. 

MR. WOOD

2. Physical Geography of the Air, Water, and Life of the Earth. This course includes the following parts: (1) The study of the earth in its universal and planetary relations, leading to the study of mathematical geography; (2) the leading facts of meteorology and climatology; (3) a study of the climatic regions of the earth in their plant, animal, and human relations. Five periods a week. 12 weeks' credit. Winter Term. MR. WOOD

3. General Geography. This course is taken up with the study of a series of type regions selected to illustrate the principles developed in physical geography, and the studies are carried on in sequence to include the industrial and commercial life of the regions. These studies are supplemented by excursions for the study of physical geography in the fields, and of industries in the factories. Five periods a week. 12 weeks' credit. Spring Term. 

MR. WOOD

HISTORY AND CIVICS

1-2-3. Ancient History. Elective in High School course. The work is based on a textbook. 36 weeks' credit. Fall, Winter, and Spring terms. 

MISS BURNHAM

4-5-6. Mediaeval and Modern History. Elective in High School course. The work is based on a textbook. 36 weeks' credit. Fall, Winter, and Spring terms. 

MISS BURNHAM

7-8-9. English History. Elective in High School course. Special emphasis is placed on the social and industrial development of English. 36 weeks' credit. Fall, Winter, and Spring Terms. 

MISS BURNHAM


MISS BURNHAM

INDUSTRIAL ARTS

2-3-4. High School Shopwork. (a) Woodturning: Practice in spindle, face plate, and chuck work. (b) Bench work: Design construction, and finishing of simple furniture; or, (3) Elementary pattern-making. 36 weeks' credit. Mechanical Drawing, 8-9-10 prerequisite. Fall, Winter, and Spring terms. Material fee, $2.00 each term. 

MR. HUFF

8-9-10. Mechanical Drawing. Fall, Winter, and Spring terms. 36 weeks' credit. 

MR. HUFF

11-12-13. Mechanical Drawing. Fall, Winter, and Spring terms. 36 weeks' credit. 

MR. HUFF
LATIN

1-2-3. For Beginners. Study of forms and syntax, followed by six weeks of connected reading in selections from easy narrative prose. 36 weeks' credit. Fall, Winter, and Spring terms. MISS ZIMMERMAN, or Assistant

4-5-6. 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. 36 weeks' credit. Fall, Winter, and Spring terms. MISS ZIMMERMAN or Assistant

7-8-9. 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. 36 weeks' credit. Fall, Winter, and Spring terms. MISS ZIMMERMAN or Assistant

10-11-12. 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. 36 weeks' credit. Fall, Winter, and Spring terms. MISS ZIMMERMAN or Assistant

MATHEMATICS

*6. Algebra. Elementary algebra through factoring. 12 weeks' credit. Winter Term. MR. CAIN

*7. Algebra. A continuation of Algebra 6 through linear equations. 12 weeks' credit. Winter Term. MR. CAIN

*8. Algebra. A continuation of Algebra 6 and 7 to quadratic equations. 12 weeks' credit. Spring Term. MR. CAIN

*9. Plane Geometry. An elementary course, 12 weeks' credit. Fall Term. MR. CAIN


*11. Plane Geometry. The subject completed. 12 weeks' credit. Spring Term. MR. CAIN

12. Algebra. Algebra completed through quadratic equations. 12 weeks' credit. Fall Term. MR. BLAIR


14. Solid Geometry. 12 weeks' credit. Spring Term. MR. BLAIR

103. Trigonometry. Plane trigonometry, trigonometric functions, identities, inverse functions, solution of triangles by logarithms. 18 weeks' credit. Fall, Spring, and Summer terms. MR. BLAIR
MUSIC

1-2-3. **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.

PHYSICAL EDUCATION FOR WOMEN

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

PHYSICS

1-2-3. **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 notebook 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. 36 weeks' credit. MR. ROOD

SPANISH

1-2-3. **Spanish.** This is a course in beginning Spanish. Open to high school students by special permission only. 36 weeks' credit. Fall, Winter, and Spring terms. MR. DES MARAIS

SPEECH

4. **Oral English.** Required in second-year High School course. A course designed primarily to train students in clear thinking and effective expression of ideas. There is much practice in story-telling, speech-making, and parliamentary law. Fall, Winter, and Spring terms. 12 weeks credit. MISS ROUSSEAU

*Required in all High School courses.*
Register of Students

BACHELOR OF ARTS

FOURTH YEAR

Blue, John H .......... Kalamazoo
Crofoot, Hazel L ......... Hart
Haven, Mabel H ......... Bloomingdale
Hoyt, John I ...... Kalamazoo
Huff, Fred S ...... Kalamazoo
Judson, Eleanor .. Kalamazoo
McCann, Irene F .......... Rives Junction
Perry, Harlo W .. Kalamazoo
Thornton, Rena E ..... Lawton

THIRD YEAR

Anway, Lellwyn R ......... Kalamazoo
Barnes, Marie D .... Coldwater
Boardman, Donald W .... Kalamazoo
Chapman, Atta F ...... Kalamazoo
Chenery, Howard .. Kalamazoo
DeHaan, John .... Zeeland
Eppley, Marguerite ......... Kalamazoo
Fenwick, Herbert S .... Scotts
Garrison, Mary J .. Hart ford
Henderson, Mary S .... Kalamazoo
Hinga, Howard N .... Kalamazoo
Jensen, Herbert R .... Kalamazoo
Kallinger, Leo R .... Allegan
Kennedy, Isabelle C .. Kalamazoo
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Weaver, Evelyn L .... Kalamazoo
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### LIFE CERTIFICATE

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Bryant, Willard...Kalamazoo
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Burdick, Susie .... Kalamazoo
Busley, Sadie...... Paw Paw
Buter, Minnie A.....Zeeland
Button, Florence...Kalamazoo
Cagney, Alice M.......Scotts
Callahan, Marie.....Buchanan
Cameron, Duncan P...... Trout Creek
Campbell, Ferne...Kalamazoo
Canfield, Alice........ Benton Harbor
Carmody, Ruth M..Watervliet
Carrigan, Andrew G...Doster
Cartland, Fred W...Kalamazoo
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Cole, Rachel J...Grand Rapids
Collins, Edna Mae.....Hart
Colman, Winifred E....... Kalamazoo
Conrad, Mildred L..Mattawan
Corbin, Helen G........ Grand Rapids
Cox, Velma G..........Evart
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Crull, Howard D...Coldwater
Davis, Helen I.......Morrice
Day, Gladys M......Rockford
Dickie, Mary G.......Pontiac
Doney, Russell......Ruvina
Doolittle, Joy B......Tekonsha
Doyle, Margaret M.....Albion
Dunlap, Sam J..........Indianapolis, Ind.
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Ferguson, Madlyn L..Bangor
Ferris, Dienna......Lakeview
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Fidler, Jennie I......Hesperia
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Fleisher, Lila......Eau Claire
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Foster, Irene I........ Iron Mountain
Fouk, Mrs. Willo W......Kalamazoo
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French, Ralph E..Port Huron
Frost, Minerva......Lawrence
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Hoover, David R...Wakelee
Houseman, Henry....Decatur
Houston, Guy V...Kalamazoo
Hoyt, Marjorie B.......Hudsonville
Hubbard, Jessie I...Marshall
Huff, Ethel A...White Pigeon
Hughes, Mrs. Mildred C....Kalamazoo
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Ireland, Gladys........Berrien Center
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Jones, Franklin L......Ceresco
Joy, Guy E........Bloomingdale
Kane, Mildred I.......Colion
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Smith, Marion F.......... Kalamazoo
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Sprague, Clyde E......... Vermontville
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Taft, Dorothy J......... Kalamazoo
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Thacker, Nelle M......... Traverse City
Thompson, Mrs. May....... Kalamazoo
Tobias, Bertha I......... Dowagiac
Tomkinson, Essie......... Clio
Van Antwerp, Harriet...... Dowagiac
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Van Kersen, Lionel W...... Muskegon
Van Liew, Doris L......... Bellaire
Van Tongeren, Janet H..... Holland
Van Volkenburg, Ned....... Kalamazoo
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Wallace, Donald.......... Kalamazoo
Walton, Fern I........... Gladwin
Ward, Helen K............. Grand Rapids
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Warner, Alice B.......... Traverse City
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Wheeler, Emma........ Kalamazoo
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<td>Bacon, Marcia L.</td>
<td>Otsego</td>
<td>Bobb, Marian L.</td>
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<td>Baeuerle, Louis J.</td>
<td>Kalamazoo</td>
<td>Boerman, Samuel A.</td>
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<td>Baker, Lavina C.</td>
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<td>Bangs, Dora M.</td>
<td>Lowell</td>
<td>Bogart, Vera L.</td>
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<td>Barker, Ruth E.</td>
<td>Petoskey</td>
<td>Bond, Wesley C.</td>
<td>Vulcan</td>
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<td>Barber, Susan S.</td>
<td>Cressey</td>
<td>Borla, Spirit S.</td>
<td>Iron Mountain</td>
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<td>Barclay, Lila B.</td>
<td>Kalamazoo</td>
<td>Bos, Charles E.</td>
<td>Hudsonville</td>
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<td>Barker, Barbara M.</td>
<td>Bellevue</td>
<td>Bosker, Wilma E.</td>
<td>Traverse City</td>
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<td>Barker, Harold B.</td>
<td>Otsego</td>
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<td>Beaglehole, Muriel V.</td>
<td>Ispheming</td>
<td>Bottje, Mary</td>
<td>Grand Haven</td>
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<tr>
<td>Bean, Allen M.</td>
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<td>Boudeman, Sharon</td>
<td>Kalamazoo</td>
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<td>Bowman, Emma T.</td>
<td>Shelby</td>
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</tbody>
</table>
Boyer, Leta M. Buchanan
Bready, Mrs. Edyth H. Kalamazoo
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Bowland, Curitland

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Constantine
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Cooper, George  Vicksburg
Cooper, Mable  Burr Oak
Cooper, Peter  Holland
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Correll, Lucille  Athens
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Corson, Waive G  Bronson
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Dahlin, Ethel  Kent City
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Duke, Harry E  Three Rivers

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Driscoll, Margaret  Grand Rapids
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Fritz, Kathryn D .... Grand Haven
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Griffin, Josephine M......Alto
Griffin, Mona Ione......Charlotte
Griggs, Paul S......Kalamazoo
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Nicholson, Esther....... Sturgis
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Sheldon, Grace L...... Woodland
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Sheline, Victor Huey..... Cassopolis
Shepard, Ruth......... Portland
Shepherd, Thelma V....... Walkerville
Shepherdson, Mabel A...... Three Rivers
Sherman, Alberta...... Homer
Sherman, Florence L.... Kalamazoo
Sherman, Ruth Brewster
Cassopolis

Shiffler, Elithe..........Camden

Short, Margaret L........Plainwell

Shuster, Edna G........Henderson

Sidler, Goldie..........Mendon

Signor, Rhea L........Fennville

Simerink, Hattie.........Grand Rapids

Simmonds, Ida........Kalamazoo

Simmons, Anna...........Buchanan

Simmons, Gertrude.......Buchanan

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Slout, Ivah A........Vermontville

Slye, Bertha E..........Ionia

Smallidge, Olive E.......Tekonsha

Smith, Arminta.Berrien Center

Smith, Bertha........Holland

Smith, Bessie M........Muskegon Heights

Smith, Della........Augusta

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Smith, Katherine E.........Plainwell

Smith, Lena........Vicksburg

Smith, Margaret.Edwardburg

Smith, Mary A..........Caledonia

Smith, Mary B........Middleville

Smith, Viona J..........Plainwell

Smith, Ward..............Paw Paw

Smyser, Florence V.Cassopolis

Sneden, Mildred........Caledonia

Snell, Laura Irene..Augusta

Snook, Maynard W........Bronson

Snyder, Harriett Capitola

Homer

Snyder, Ruth E........Coldwater

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Sonntag, Elizabeth H........Belding

Spanenberger, M. Louise...

Rockford

Spence, Ginevra...........Fremont

Springstead, Alice........Kalamazoo

Stark, Amanda L........Marilla

Starring, Elna L........Fennville

Steeby, Rita...........Middleville

Stein, Helen Maude........Kalamazoo

Sterling, Clara Louise
Battle Creek

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Sterling, Marjorie.Battle Creek

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Svoboda, D. Lucy........Cedar

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Swain, Vivian........East Leroy

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1919-1920

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Anderson, Cleo . . . . Kalamazoo
Anway, Leon . . . . Kalamazoo
Armstrong, Gladys . Kalamazoo
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Baker, Laura . . . . Kalamazoo
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Barnabee, Leslie . . . . Kalamazoo
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Betke, Abram . . . . Kalamazoo
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Biery, Louise . . . . Camden
Bigelow, Pauline . . . Kalamazoo
Blakeslee, Theodore . . . . Kalamazoo
Blue, Margaret . . . . Kalamazoo
Bohnet, Lawrence . Kalamazoo
Boyle, Ruth . . . . Kalamazoo
Boylan, Frances . . . . Kalamazoo
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Total enrollment Regular School Year..........................975

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Total number of different students................................1902
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