Western State Normal School Bulletin, Summer 1927

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Western State Normal School

BULLETIN

1927 SUMMER SESSION
MONDAY, JUNE 27 TO FRIDAY, AUGUST 5

KALAMAZOO, MICHIGAN

This Institution is a Member of the American Association of Teachers Colleges
PROGRAM OF SUMMER SESSION EVENTS

First Week (June 27-July 2)

Monday, June 27 ....... Registration.

Tuesday, June 28 .... 9 a.m., General Assembly. Address, President Waldo.
3 p.m., Room 205, Science Building. Travel Talk—Castles in Spain, Mr. Greenwall.

Wednesday, June 29 . 3 p.m., Matinee Tour*—Michigan Bell Telephone.
3-5 p.m., Women's League Room. Open House Tea.

Thursday, June 30 ... 3 p.m., Matinee Tour*—Kalamazoo Gazette.
8 p.m., Feature Entertainment. Sidney Landon—Character Studies.

Friday, July 1 ....... 8 p.m., Faculty Reception to Students.

Saturday, July 2 ....... 8 a.m., Week-end Excursion**—Battle Creek.

Second Week (July 4-July 9)

Monday, July 4 ........ Holiday.

Tuesday, July 5 ....... 10 a.m., General Assembly. Address, Registrar Hoekje.
3 p.m., Room 111, Science Building. Departmental Talk—Education in Scotland, Miss Coppens.
3 p.m., Matinee Tour*—Kalamazoo Laundry.

Wednesday, July 6 ... 3 p.m., Room 205, Science Building. Travel Talk—
The Lake District of England, Mrs. Biscomb.
3 p.m., Room 201, Library. Departmental Talk—
The Nursery School, Mrs. Campbell.
3-5 p.m., Women's League Room. Open House Tea.

Thursday, July 7 ...... 3 p.m., Matinee Tour*—The Upjohn Company.

Saturday, July 9 ....... Week-end Excursion**—(To be announced).

Third Week (July 11-July 16)

Monday, July 11 ....... 3 p.m., Room 205, Science Building. Travel Talk—
The Russian Peasant, Dr. Terpenning.
3 p.m., Room 201, Library. Departmental Talk—
The Adjustment of Mathematics to Changing Conditions, Mr. Everett.

Tuesday, July 12 .... 9 a.m., General Assembly. Musical Program.
3 p.m., Room 205, Science Building. Departmental Talk—Painters of the Italian Renaissance, Miss Roberts.
3 p.m., Matinee Tour*—Kalamazoo State Hospital.

Wednesday, July 13 . 3 p.m., Room 205, Science Building. Travel Talk—
A Summer on the Labrador, Miss Master.
3 p.m., Room 201, Library. Departmental Talk—
The Story of Gettysburg, Mr. Smith Burnham.
3-5 p.m., Woman's League Room. Open House Tea.
8 p.m., Feature Entertainment. Comedy—"Patsy," Chautauqua Players.
Thursday, July 14.... 1:30 p. m., Matinee Tour*—Kalamazoo Stove Works.
3 p. m., Room 205, Science Building. Departmental Talk—The Animal Mind, Dr. Henry.

Saturday, July 16.... 7:30 a. m., Week-end Excursion**—The Dune Country.

Fourth Week (July 18–July 23)

Monday, July 18.... 3 p. m., Room 205, Science Building. Travel Talk—Two Royal Palaces, Mrs. Hockenberry.
3 p. m., Room 301, Science Building. Departmental Talk—The Photo-Electric Cell, Mr. Rood.

Tuesday, July 19.... 10 a. m., General Assembly. Lecture (Speaker to be announced).
1:30 p. m., Matinee Tour*—Kalamazoo Sanitary Manufacturing Company.
3 p. m., High School Assembly Room. Lecture—The Little Big Horn, President Waldo.

Wednesday, July 20.... 3 p. m., Room 205, Science Building. Travel Talk—A Visit in a Japanese Home, Miss Shaw.
3 p. m., Room 201, Library. Departmental Talk—Migration of Birds, Miss Hadley.
3–5 p. m., Women's League Room. Open House Tea.

Thursday, July 21.... 1:30 p. m., Matinee Tour*—Camp Custer Reviews and Roosevelt Hospital.
8 p. m., Feature Entertainment. Edmund Vance Cooke, Poet.

Friday, July 22.... 8 p. m., Student Party.

Saturday, July 23.... 7:30 a. m., Week-end Excursion**—Jackson Prison.

Fifth Week (July 25–July 30)

Monday, July 25.... 3 p. m., Room 201, Library. Travel Talk—Sketches of Alaska, Miss Lindblom.
3 p. m., Room 205, Science Building. Departmental Talk—What Glaciation Has Done for Michigan, Mr. Wood.

Tuesday, July 26.... 9 a. m., General Assembly. Lecture (Speaker to be announced).
3 p. m., Room 205, Science Building. Departmental Talk—The Place of Measurement in Education, Dr. Sangren.
3 p. m., Matinee Tour*—Todd Art Galleries.
8 p. m., Feature Entertainment. Paul Fleming, Magician.

Wednesday, July 27.... 3 p. m., Room 205, Science Building. Travel Talk—The Old Rome and The New, Miss Kraft.
3 p. m., Room 111, Science Building. Departmental Talk—Some Contemporary Novels, Dr. Brown.
5:30 p. m., School Picnic—White’s Lake.

Thursday, July 28.... 3 p. m., High School Assembly Room. Lecture—My Philosophy of Life, Dr. Halnon.
3 p. m., Matinee Tour*—Kalamazoo State Hospital.

Saturday, July 30.... 8:30 a. m., Week-End Excursion**—Kalamazoo Vegetable Parchment Company.
Sixth Week (August 1–August 5)

Tuesday, August 2...10 a. m., General Assembly. Commencement Exercises.

2 p. m., Feature Entertainment. Ruth Bryan Owen, Lecturer.

*Notes on Matinee Tours:

1. All tours will be conducted by Mr. Heathcote. The guide will explain the processes as they are being seen.
2. Each tour will be limited to those who hold a ticket for that tour. Tickets may be obtained at the Main Office.
3. Parties for all tours will assemble in the rotunda of the Training School.
4. Several of the trips will be made in the Normal School busses at nominal cost.

**Notes on Week-end Excursions:

1. Each week-end excursion will be conducted by Mr. Heathcote, and all points of interest will be explained by expert guides.
2. All trips will be made by bus transportation at cost.
3. Students wishing to make trips must obtain the proper ticket at the Main Office.
4. All excursions will begin and end at the Training School Building.
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THE FACULTY

1927 Summer Session

Dwight B. Waldo, A.M., LL.D. ........................................ President
John C. Hoekje, A.B. .................................................. Registrar
Bertha S. Davis ......................................................... Dean of Women
Ray C. Pellett, A.M. .................................................. Dean of Men
Roxana Steele, A.M. .................................................. Director of Training School

The Department of Art

Jessie M. Roberts, A.M.
B.S., A.M., Columbia University.

Agnes L. Broemel, B.S.
B.S., Oklahoma State College; B.A.E., Chicago Art Institute.

Verna Fenstermacher
Western State Normal School.

Elaine L. Stevenson
Western State Normal School; Emma Church School of Design; Quint Studio of Pottery.

Louise Struble
Western State Normal School; Applied Art School, Chicago.

The Department of Biology

Henry N. Goddard, Ph.D.
Ph.B., Ph.D., University of Michigan.

Theodosia Hadley, S.M.
B.L., Packer Collegiate Institute; A.B., Vassar College; S.M., The University of Chicago.

Jesse A. Place, A.M.
A.B., Ohio University; A.M., The University of Chicago.

Eloise McCorkle, A.M.
B.S., A.M., George Peabody College.

The Department of Chemistry

William McCracken, Ph.D.
A.B., University of Michigan; Ph.D., The University of Chicago.

Robert J. Eldridge, S.M.
B.S., Kalamazoo College; S.M., The University of Chicago.

The Department of Commerce

Eugene D. Pennell
University of Minnesota; University of Michigan.

Ada M. Clark, A.B.
A.B., Western State Normal School.
The Department of Early Elementary Education

Minnie A. Campbell, B.S.

Verle F. Coppens, A.M.
B.S., A.M., Teachers College; Columbia University; The University of Edinburgh.

Effie B. Phillips, A.M.
B.S., University of Minnesota; A.M., Teachers College, Columbia University.

The Department of Education and Psychology

Theodore S. Henry, Ph.D.
A.B., Hedding College; A.M., Ph. D., University of Illinois.

Manley M. Ellis, Ph.D.
Michigan State Normal College; A.B., A.M., Ph.D., University of Michigan.

William Halnon, Ph.D.
Dublin College and Trinity College, Ireland; Ph.D., Indiana University.

Daniel J. Heathcote, A.M.
A.B., University of Michigan; A.M., Columbia University.

George H. Hilliard, Ph.D.
A.B., A.M., Ph.D., University of Iowa.

Ina Kelley, A.B.
A.B., Hillsdale College.

Katherine A. Mason, A.M.
B.S., A.M., Teachers College, Columbia University.

Paul V. Sangren, Ph.D., Bureau of Educational Measurement and Research.
A.B., Michigan State Normal College; A.M., Ph.D., University of Michigan.

Lavina Spindler, A.B.
A.B., University of Michigan; Teachers College, Columbia University.

David Van Buskirk, A.M.
A.B., A.M., University of Michigan.

The Department of English

William R. Brown, Ph.D.
A.B., University of Texas; A.M., Ph.D., Harvard University.

Amelia Biscomb, A.B.
A.B., Kalamazoo College.

Edith M. Eicher, A.M.
A.B., Morningside College; A.M., Columbia University.

Louis Foley, A.M.
A.B., Ohio University; A.M., Ohio State University; Université de Djon.

Herbert E. Fowler, A.B.
A.B., Princeton University.

Mildred Gould, A.B.
A.B., Western State Normal School.

Mary Henderson, A.B.
A.B., University of Michigan.

Minnie D. Loutzenhiser, A.M.
B.S., Missouri State Teachers College; A.M., University of Washington.
HELEN E. MASTER, A.M.
A.B., A.M., University of Michigan.
JAMES RAYMOND MASTERS, A.M.
A.B., Western State Normal School; A.M., Harvard University.

ELEANOR RAWLINSON
The University of Chicago.
FRANCES SWAIN, A.M.
A.B., A.M., University of Michigan.

RUTH VAN HORN, A.M.
A.B., A.M., University of Michigan.

The Department of Geography and Geology

LESLEY H. WOOD, A.M., Geography and Geology.
A.B., University of Michigan; A.M., The University of Chicago.

LOUISE BOSWELL, S.B.
S.B., The University of Chicago.

LUCIA HARRISON, S.M.
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The Department of History and Social Science

SMITH BURNHAM, A. M., History.
A.B., A.M., Albion College.

GERALD BARNES, Ph.D., Sociology.
A.B., Amherst College; A.M., University of Cincinnati; Ph.D., University of Michigan.

MARGARET E. BURNHAM, A.B., History.
A.B., University of Michigan.

ELMER GRIFFITH, Ph.D., Economics.
A.B., A.M., Beloit College; Ph.D., The University of Chicago.

BLANCHE HOWELL, A.M., History.
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JAMES OWEN KNAUSS, Ph.D., History.
A.B., Lehigh University; A.M., Harvard University; Ph.D., Cornell University.

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

KATHERINE MULRY JOHNSON, B.S., History.
B.S., Columbia University.

W. J. RHYNDSBURGER, Ph.B., History.
Ph.B., Central College, Iowa.

ROBERT R. RUSSEL, Ph.D., History.
A.B., McPherson College; A.M., University of Kansas; Ph.D., University of Illinois.

NANCY E. SCOTT, Ph.D., History.
A.B., A.M., Indiana University; Ph.D., University of Pennsylvania.

D. C. SHILLING, A.M., Political Science.
Ph.B., Ohio Northern University; A.B., Miami University; A.M., University of Wisconsin.

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

The Department of Home Economics

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

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

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

The Department of Foreign Languages

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

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

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

MYRTLE WINDSOR, A.B., Spanish.
A.B., University of Michigan; The University of Chicago.

The Department of Manual Arts

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

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

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

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

RODNEY BACON
Western State Normal School.

CLIFFORD RAFSON
Western State Normal School.

The Department of Mathematics

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

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

W. H. CAIN, A.M.
A.B., University of Michigan; A.M., Columbia University.

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

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

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

The Department of Music

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

GEORGE E. AMOS
Bethany Conservatory of Music; Chicago Musical College; Wichita Conservatory of Music.
LEON C. BRITTON  
Western State Normal School; Northwestern University; Teachers College, Columbia University.

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

MARVEL LIDDI SCHUSTER, B.M.  
B.M., American Conservatory of Music.

Penmanship

ETHEL SHIMMEL  
Western State Normal School.

The Department of Physical Education for Men

CARL P. SCHOTT, Ph.D.  
A.B., A.M., Ph.D., University of Columbia.

EARL J. MARTINEAU, B.S.  
B.S., University of Minnesota.

HERBERT W. READ, A.B.  
A.B., Western State Normal School.

LAWRENCE TAYLOR, A.B.  
A.B., Springfield Y. M. C. A. College.

The Department of Physical Education for Women

CRYSTAL WORNER, A.M.  
A.B., Michigan State Normal College; A.M., University of Michigan.

GERMAINE G. GUIOT, B.S.  
Sargent School of Physical Education; B.S., University of Michigan.

DORIS A. HUSSEY  
Sargent School of Physical Education; University of Wisconsin.

The Department of Physics

PAUL ROOD, A.M.  
A.B., Albion College; A.M., University of Michigan.

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

WALTER G. MARBURGER, S.M.  
A.B., S.M., University of Michigan.

The Department of Rural Education

ANNA L. EVANS, A.M.  
A.B., University of Michigan; A.M., The University of Chicago.

MANLEY M. ELLIS, Ph.D.  
Michigan State Normal College; A.B., A.M., Ph.D., University of Michigan.

CLEORA SKINNER  
Western State Normal School; The University of Chicago.

The Department of Speech

ANNA E. LINDBLOM, A.M.  
A.B., A.M., Iowa State University.

LAURA V. SHAW, A.M.  
B.S., Ohio Wesleyan University; A.M., University of Michigan.
The Normal Training School

HELEN BARTON, A.M.

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

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

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

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

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

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

LIBRARY

ANNA L. FRENCH, Librarian.
Michigan State Normal College; Drexel Institute School of Library Science.

EDITH CLARK, A.B., Periodicals.
A.B., Western State Normal School.

FLORENCE FOWLER, A.B., Cataloguer.
A.B., University of Missouri; New York State Library School.

MARY A. HARVEY, Orders and Accession.
Michigan Female Seminary.

PHOEBE LUMAREE, A.B., Reference.
A.B., Western State Normal School; Simmons College Library School.

PAUL RANDALL, A.B., Circulation.
A.B., Western State Normal School.

OFFICES

John C. Hoekje, A.B. ........................................Registrar
Bernice G. Hesselink ........................................Financial Secretary
Lloyd E. Jesson ................................................Secretary to the President
Myrtle Allinson ..............................................Clerk, Registrar
Cornelius MacDonald ........................................Receiving Clerk
Edna Hirsch .....................................................Records Office
Ardell Olds .....................................................Appointment Office
Lucille Sanders ................................................Clerk, Rural Department
Alice Smith .....................................................Clerk, Training School
Gretchen Switzer ............................................Appointment Secretary
Leah Smith .......................................................Extension Secretary
Mildred Sellers Jones ........................................Clerk, High School Office
V. Helen Haight .................................................Clerk, Dean of Women
Margaret Feather .............................................Clerk, Dean of Men
Sara E. Ackley ................................................Co-operative Store
Blanche Draper ................................................Editor, Normal Herald
H. P. Greenwall, A.B. .........................................Alumni Secretary
COMMITTEES OF THE FACULTY FOR THE SUMMER SESSION, 1927

The President is ex-officio a member of each committee.
Appointment Committee—Ellsworth, Brown, Davis, Evans, Hoekje, Mason, Pellett, Spindler.
Assembly Attendance—Pellett, Davis, Hoekje.
Assembly Exercises—Spindler, Britton, Brown, McCracken, Roberts, Shaw, two students to be named by the Student Council.
Athletic Board—McCracken.
Curricula—Sangren, Cain, Ellsworth, Harrison, Hilliard, Knauss, Pennell, Spindler, Steele.
Enrollment Committees—
  General Chairman—Hoekje.
  General Advisory Committee—Ellsworth, McCracken, Spindler.
Curricula Advisers—
  A. B. Degree—Shilling, Harrison.
  B. S. Degree—Blair, Hilliard.
  Art—Roberts, Stevenson.
  Commerce—Pennell.
  County Certificates (One Year Curriculum)—Evans.
  County Renewals—Ellis.
  Early Elementary—Campbell, Coppens, Mason, Phillips, Seekell.
  Home Economics—M. Moore, Schumacher.
  Junior High School—Rawlinson, Brown, Ford, Steinway.
  Later Elementary—Steele, Ellis, Johnson.
  Manual Arts—Huff.
  Normal High School—Cain.
  Physical Education for Men—Schott
  Physical Education for Women—Worner, Hussey, Spalding.
  Rural—Ellis.
  Senior High School—Ackley, Eicher, Fox, Hoebeke, Zimmerman.
  Special State Life Certificate—Bartoo.
  Unclassified—Bartoo.
Extra Studies and Scholarship—Hoekje, Davis, Eicher, Pellett, Sangren.
Health—Dr. ——, Davis, Goddard, Hussey, Pellett.
Publications—Hoekje, Eicher, Harrison, Roberts.
Social Life—Davis, Barnes, Cain, Mason, Master, M. Moore, Pellett, Read, Rood, Worner.
Student Organizations:
  Student Association Advisory Board—Brown, Hoekje, Lahman, Spindler.
  Y. M. C. A.—Ackley, Terpenning.
  Y. W. C. A.—Master, Hockenberry, Shaw.
SUMMER SESSION
OF THE
Western State Normal School

PURPOSE
Through its Summer session, Western State Normal School provides opportunity for professional advancement to varied groups. It enables the experienced teacher to keep in touch with new developments in the educational world and to increase his own academic knowledge; it offers courses directly related to the particular problems of superintendents, principals, and others in supervisory positions; it makes possible the earning of a certificate or degree by a teacher who is not able to attend during the regular year; it permits students registered during the year to continue their studies in the summer.

To one engaged in teaching during the year, attendance at a summer session brings large returns. Friendships formed or renewed, recreational opportunities, and intellectual inspiration through classroom contacts, lectures, round-table conferences, and conducted excursions, all combine to give fresh enthusiasm for the next year’s work.

HISTORY
Summer sessions of six weeks’ duration have been conducted since the foundation of Western State Normal School in 1904. In the summer of 1926, 1,827 students of collegiate rank were enrolled; 157 Life Certificates and 84 Limited Certificates were granted, and 47 degrees conferred. The steady growth in attendance indicates that these sessions have been found of distinct service to prospective and experienced teachers.

The twenty-fourth Summer session will open June 27 and continue until August 5. Students will be enrolled and classified on Monday, June 27. Instruction will begin in all classes on Tuesday, June 28. Nearly 181 courses will be available, and a teaching staff of 100 will be employed. The majority of the instructors will be members of the regular staff. Departments so arrange their work that it is possible for students to pursue sequences from summer to summer.

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

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

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

RECREATIONAL OPPORTUNITIES

Kalamazoo is in the heart of the southwestern Michigan glacial lake country and opportunities for diversion are numerous: picnicking on the wooded hillsides and the shores of the numerous accessible lakes, swimming, and boating being popular pastimes. Students are given free instruction in tennis on the nine campus courts, which are provided with nets and frequently reconditioned. The city golf links are within one mile of the campus, and bus service to them is frequent. Summer students may have the use of the links by payment of the customary green fee. Bus and train service makes possible a day's outing on the shore of Lake Michigan. Through various social functions every effort is put forth to further mutual acquaintanceship of faculty and students.

STUDENT WELFARE

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

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

Representatives of the Y. M. C. A. and of the Women's League will meet incoming trains on June 26 and 27. They may be recognized by their badges, and may be relied upon for information and advice.

HEALTH SERVICE

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

THE APPOINTMENT BUREAU

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

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

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

The services of this bureau are available to students of the Summer session.

**TRAINING SCHOOL FACILITIES**

The Training School Building, which houses the pre-high school work, is a model building of its kind, with facilities for effective teaching.

Grades one to six will be in session daily from 8:00 to 11:00 under the supervision of regular grade and special supervisors. Three grades will be reserved for observation, one each in primary, intermediate, and upper elementary work. Demonstration lessons will be conducted in these rooms to exemplify progressive methods of education under modern conditions, and opportunity will be afforded for free discussion of the work observed and for the presentation of the underlying theory. The other three grades will be open for a limited amount of practice teaching by students not in residence on the campus during other terms. Application for enrollment for practice teaching should be made to the Director of the Training School well in advance of the opening of the Summer session.

**RURAL EDUCATION**

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

Western Normal School offers courses of study for the initial preparation of teachers of rural schools as well as subjects in rural education for students who are candidates for a degree. (For detailed description of courses see pages 70-71; for kinds of certificates granted, see pages 21-22.)

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

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

**COUNTY NORMAL AND HELPING TEACHERS**

Subjects adapted to the needs of teachers, who are working during the year as principals and critics in county normal schools or as helping teachers in county supervision, are available in the Summer session, and every effort will be made to serve these teachers.
EXTENSION DEPARTMENT

Through the Extension Department the Western State Normal School offers opportunities to study for credit in absentia to capable students who are unable to be in residence during the regular year. Such non-resident credit, when combined with residence credit earned during summer sessions, is accepted on the certificate and degree curricula. All instruction is given by members of the regular faculty in classes which meet at frequent intervals, usually on Saturdays, in centers within range of the school, or by means of carefully organized courses offered by correspondence. As far as possible, courses are equivalent to corresponding resident courses. (See page 47.)

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

BUILDINGS AND FACILITIES

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

The Library Building, which was completed in the summer of 1924, enables all the students of the school to do reading and reference work under the most comfortable conditions. One corner of the building, at the side of the wide entrance lobby, is occupied by a long delivery desk, behind which is a steel-constructed stack-well, and at the other side of the lobby a corner of the building is devoted to staff work rooms and a faculty reading room. All the rest of this floor is given over to the main reading room two stories high and 158 feet by 38 feet, accommodating 290 readers. The second floor has two large lecture rooms and two seminar rooms. The basement provides more classrooms, a large study room, and a check room for wraps.

The Library consists of 28,000 volumes, arranged according to the decimal classification, and indexed by a card catalog of the dictionary type. There are 60 complete files of periodicals, and 299 periodicals and 8 newspapers were subscribed for during the current year.

Students are also generously accorded the services of the efficient staff of the Kalamazoo Public Library and the use of its collection of 75,000 volumes.

An effort is made to insure an intelligent use of library tools and the principal works of reference by a course of ten lessons required of all first-year students.

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

The Administration Building contains the administration offices, the Bureau of Educational Measurement and Research, the Alumni office, classrooms, the High School assembly room, the Normal Co-operative Store, and the Women's League Room. The latter is a large and attractively furnished room that has been set aside for the use of the women of the school. Students find this charming room with its comfortable chairs and davenports a pleasant place to rest and chat with friends, and to hold informal social gatherings.

The Normal Training School includes a kindergarten, a room each for grades one to eight, special class rooms, a library, a gymnasium, and laboratories for both manual arts and home economics. The center of the building is an open light-well forming a rotunda with stage for children's assemblies and a fireplace.
The **Science Building.** The *Department of Biology* has separate laboratories for special work in physiology, hygiene, general biology, botany, zoology, nature study, and agriculture. The department is in every way thoroughly equipped with the instruments and apparatus necessary for high-grade work in the various phases of biological study.

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

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

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

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

The laboratories are adequate for experimental work in all phases of general physics. Precision instruments and precision standards are available for use in the courses in electricity and electrical measurements. An experimental radio receiver and transmitter are maintained for the study of radio problems. In these laboratories the student has ample opportunity to become familiar with the manipulation and operation of modern high grade apparatus.

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

The **Department of Education and Psychology.** For the work in psychology, all the instruments necessary for standard introductory or advanced courses are at the disposal of the student. Chronoscopes, kymographs, tachistoscopes, color mixers, ergographs, etc., constitute a part of this equipment. The department is also well supplied with excellent models of the brain and the sensory organs. The general library of the school contains complete files of all the more important psychological and educational journals, as well as a large list of the standard works in these and related fields.

The **Manual Arts Department** is in a fireproof structure of modern factory type. Facilities for specialization in woodworking, metal working, and drafting are complete and adequate. Wash-rooms and shower-baths adjoin the locker room. There are separate units for elementary woodworking, advanced woodworking, forging, sheet metal, machine shop, foundry, pattern making, gas engine, and automobile repair work, and the drafting room receives north and west light. This building is modern in every respect, and with its ample equipment, provides satisfactory training opportunities for those interested in the industrial arts.

The **Home Economics Department** has laboratories for courses in foods and cookery in the Administration building and the Training School, and for clothing and textile work in the Barracks.
The Department of Commerce is in the basement of the Library. A complete equipment of typewriters, filing cabinets, duplicating machines, etc., has been provided so that students may have an opportunity to become familiar with modern mechanical office devices.

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

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

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

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

LECTURES, ENTERTAINMENTS, EXCURSIONS, CONFERENCES

Four evening entertainments, including a concert, a lecture, an impersonator, and a magician, will be offered to Summer session students in place of the usual Chautauqua program. In addition, departmental lectures, travelogues, round table discussions, and conferences with different faculty members will be held, usually in the late afternoon, and will be open to all students interested. Week-end trips outside of the city and mid-week excursions to places of interest in Kalamazoo are planned on a definite schedule. A faculty reception, two dancing parties, afternoon teas, and during the last week of the term, an all school picnic are social features of former Summer sessions to be repeated in 1927. Announcement of each event will be made in the Normal Herald.

BUREAU OF EDUCATIONAL MEASUREMENT AND RESEARCH

The purposes of the Bureau of Educational Measurement and Research are threefold: (1) to direct and co-ordinate the measurement and research activities of the training schools and the Normal School; (2) to aid in the more adequate preparation of teachers for work in educational measurements; (3) to aid teachers and administrators in various school systems of the State to conduct the measurement activities in their school systems.

In addition to the courses of instruction in educational tests and measurements offered for students of the Summer session, the Bureau of Educational Measurement and Research hopes to be helpful to Summer session students in, at least, two definite ways: (1) the Director of the Bureau will be glad to give such advice and aid as he can concerning the measurement and research activities of those individuals who wish to confer with him; (2) to hold a brief conference on educational measurements open to all who are interested at a time and place to be announced during the Summer session.

ADVANCED PROFESSIONAL COURSES OF INTEREST TO EXPERIENCED TEACHERS AND ADMINISTRATORS

The Department of Education and Psychology announces several courses of special interest to experienced teachers who desire training for supervisory and administrative work. Details of these courses are given on pages 53-54. Various departments offer courses dealing with the teaching of their particular subject.

CONFERENCE OF COUNTY COMMISSIONERS

Commissioners of schools of the cooperating counties are invited to be at the Normal School on Monday and Tuesday of the first week of the term. They are asked to organize for any conferences which they may desire to hold during the term. The commissioners will be especially invited to hear one of the special Summer session lectures and to meet the State Superintendent of Public Instruction. Details of the day's program will be sent to each commissioner several weeks in advance.

SCHOOL FOR ATHLETIC COACHES

The Department of Physical Education for Men offers each summer a number of courses particularly designed to render service to coaches and prospective coaches who are unable to take the work of the department during the other terms, or who wish to supplement and bring their training up to date.

Teachers, principals, and superintendents, though not actively engaged in coaching, may also find these courses profitable as an aid to intelligent supervision and direction of athletics. The work of this "Summer School for Athletic Coaches" is conducted directly by the experienced coaching corps of the department supplemented by outside instructors who have made a name for skill in special lines of work.
All work is intensely practical since field, floor, and track work are closely coupled to classroom theory. An interclass baseball league is conducted and a program of intramural sports carried out where workable ideas of service in general physical education administration may be gained.

Those who enroll in this school will be expected to furnish for themselves such equipment as is necessary for the practical work of the courses. There is no charge for admission to this school other than the regular tuition and fees.

**ORCHESTRA**

An orchestra under expert conducting will be organized, and those interested in joining are urged to bring their own instruments, although the Normal School provides the larger pieces.

**BIOLOGICAL FIELD TRIP**

During the three weeks immediately following the Summer session, Dr. Goddard will conduct an auto camping tour for biological study, with the Devil's Lake and Kilbourne Dells region of Wisconsin the main objective. Details of this field course are given on page 49.
CONDITIONS OF ADMISSION
The conditions of admission are the same as for the regular terms. For details see the last issue of the catalog.

CERTIFICATES AND DEGREES
All applicants for a certificate to teach must be at least eighteen years of age and must be citizens of the United States, or have signified their intention of becoming citizens by having taken out the first papers.
Applications for certificates and degrees must be filed with the Registrar by the end of the second week of the Summer session.
The State Board of Education through Western State Normal School grants the teacher's certificate and the Degree of Bachelor of Arts or Bachelor of Science as follows:

LIFE CERTIFICATE
Requirements:
Applicants must have completed one of the curricula offered in Western State Normal School, which curriculum shall require not less than two years of work (96 term hours credit) in advance of the high school. (Details of all curricula are given on pages 27-46.)

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

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

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

REQUIRED PROFESSIONAL TRAINING
The Western State Normal School will afford every convenience for beginning teachers and will co-operate to the fullest extent with the State Department of Public Instruction and the county boards of school examiners in carrying out the provisions of the law regarding the professional training of all public school teachers.
The following statement by the Superintendent of Public Instruction, set forth in Bulletin No. 14 of the Department of Public Instruction, is clear and specific about the certification of teachers by county boards of examiners after September 1, 1925:

Summary of the Law
The law provides that after September 1, 1925, a person to receive a county certificate must have had at least one year of professional training beyond the completion of an approved four-year high school course.
Exceptions to this requirement for one year of professional training:
1. Any teacher who can furnish proof to the Superintendent of Public Instruction of having taught five years previous to the taking effect of the law in August, 1921, the last three years of which were continuous, may have a renewal of a certificate without completing the professional training, if such teacher has been continuously and successfully teaching and has the average standing mentioned in the next paragraph.
2. Any teacher holding a third grade certificate, a second grade certificate, or a first grade certificate on September 1, 1925, renewable because the teacher has taught continuously since the last certificate was received and has attained an average standing of at least eighty-five per cent in all subjects covered in two or more previous examinations may have a third grade certificate and a second grade certificate renewed by completing twelve weeks of professional work amounting to sixteen term hours' credit, and may have a first grade certificate renewed by completing eighteen weeks of professional training amounting to twenty-four term hours' credit.

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

Certificates Issued

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

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

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

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

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

Renewal of County Certificates Issued Previous to September 1, 1925

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

The requirements for one year of professional training are given on page 42.

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

The degree of Bachelor of Arts or Bachelor of Science is conferred by Western State Normal School after the completion of one of the four-year curricula.
EXPENSES
FEES
Tuition Fees
For residents of Michigan there is a tuition fee for the Summer session of $3.00; for non-residents of Michigan the fee is $6.00. Tuition will be pro-rated on the basis of the number of courses taken.
Kalamazoo County students who enroll for work in Rural Education may attend Western Normal School for one year without paying fees, because counties having county normals provide for one year of free tuition, and because, by law, counties having State normals may not have county normals.

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

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

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

NOTE.—No refund of fees will be made after the first week of the Summer session.

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

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

ESTIMATE OF EXPENSES
An estimate of the expenses for the Summer session may be formed from the following table:
Room (one-half of a double room) ........................................... $15.00 to $18.00
Board .............................................................................. 30.00 to 36.00
Laundry ........................................................................... 0.00 to 5.00
Textbooks and supplies ..................................................... 8.00 to 12.00
Incidentals ....................................................................... 8.00 to 12.00
Tuition and fees .............................................................. 8.75 to 8.75

Total for 6 weeks ............................................................ $69.75 to $91.75
REMUNERATIVE OCCUPATION

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

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

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

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

THE CO-OPERATIVE STORE

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

ROUTINE OF REGISTRATION, CREDITS, ETC.

GENERAL INSTRUCTIONS FOR ENROLLMENT

Registration for the Summer session begins on Monday, June 27. A circular giving detailed information relative to registration may be obtained at the Information Desk.

CLASSIFICATION

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

SIGNIFICANCE OF COURSE NUMBERS

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

Numbers of courses available through extension have Cl added to indicate class work, and Co to indicate correspondence work.

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

CREDIT IN TERM HOURS

The unit of credit is the term hour and the number of term hours credit given for a course generally indicates the number of class periods a week. In the Summer session, most classes meet for two consecutive hours and eight term hours of credit is a normal class load.

EXTRA CLASS LOAD

It is deemed more desirable for a student to do work of a high grade of excellence than to take an extra subject with mediocre success, or because of the additional class load to deprive himself of the time to take advantage of the numerous opportunities for gaining inspiration and help through other agencies than the classroom. Permission to carry an extra subject is usually granted only to those whose previous record has been superior.

MARKING SYSTEM

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

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Significance</th>
<th>Honor Points (Per 4 term hours credit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>3</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>Fair</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>Passing</td>
<td>0</td>
</tr>
<tr>
<td>E</td>
<td>Failure</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
<td></td>
</tr>
</tbody>
</table>
The mark of I means that the student has not finished the work of the course, through illness, unsatisfactory work, or some other cause, and may be given opportunity to complete it.

The mark of E means that the student has failed. I's must be removed during the next succeeding term (except when the student does not return, and then within one year) or they automatically become E's.

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

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

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

For the Preparation of Teachers and Supervisors of Art

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

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

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

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

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

6. Art:
   - Teachers' Art 102............................................ 4 term hours
   - Industrial Art 103............................................ 4 term hours
   - Elementary Design 109..................................... 4 term hours
   - Mechanical Drawing 112................................... 4 term hours
   - Figure Drawing 205......................................... 4 term hours
   - Art Observation 206........................................ 4 term hours
   - Demonstration Drawing 207............................... 4 term hours
   - Art Composition 208........................................ 4 term hours
   - History and Appreciation of Art 211 A, B............. 8 term hours
   - Commercial Art 214......................................... 4 term hours
   - Art Supervision 314........................................ 4 term hours

7. At pleasure....................................................... 27 term hours
   (Not more than 8 term hours may be elected in Art)

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

Minimum term hours required—144.

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

For the Preparation of Teachers of Art and Music

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

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

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

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

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

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

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

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

Minimum term hours required—145.

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

COMMERCCE CURRICULUM
(Three years in length)

For the Preparation of Teachers of Commerce

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

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

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

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

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

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

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

Minimum term hours required—144.

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

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

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

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

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

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

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

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

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

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

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

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

Minimum term hours required—96.

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

2. Attention is called to the following courses:
   Demonstration Drawing 207.
   Literature for Children 103.
   Lyric Poetry 111.
   Mythology 108.
   Geography for Primary Grades 103.
   Arithmetic 101.
   Home Management 208.
   Nutrition 206.
   Educational Measurements 206.
LATER ELEMENTARY CURRICULUM
(Two years in length)

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

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

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

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

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

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

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

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

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

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

Minimum term hours required—96.

Note.—1. In as far as possible, consecutive courses should be elected in ful-
fillment of the requirements of Groups 3, 4, 8.

2. Attention is called to the following courses:
   - Demonstration Drawing 207.
   - Literature for Children 103.
   - Lyric Poetry 111.
   - Mythology 108.
   - Story Telling 111.
   - Hygiene 112.
   - Health Education 215.
   - The Teaching of Geography 212.
   - The Teaching of History 202.
   - Psychology of Reading 104.
   - Educational Measurements 206.
JUNIOR HIGH SCHOOL CURRICULUM  
(Two years in length)

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

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

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

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

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

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

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

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

Minimum term hours required—96.

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

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

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

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

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

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

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

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

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

Minimum term hours required—96.

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

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

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

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

5. Students who desire to teach in the high schools of rural agricultural, consolidated, and village schools are referred to the curriculum given on page 39.

6. Attention is called to the following courses:
   - Genetic Psychology 203.
   - Educational Measurements 206.
   - Extra-curricular Activities 220.
HOME ECONOMICS CURRICULUM  
(Three years in length)  
For the Preparation of Teachers and Supervisors of Home Economics

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

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

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

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

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

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

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

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

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

Minimum term hours required—144.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 5, and 8.  
2. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
MANUAL ARTS CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Manual Arts

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

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

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

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

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

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

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

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

Minimum term hours required—144.

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

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

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

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

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

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

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

For the Preparation of Teachers and Supervisors of Music

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

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

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

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

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

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

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

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

Minimum term hours required—144.

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

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

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

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

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

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

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

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

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

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

**Minimum term hours required—144.**

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

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

3. One unit of teaching should be deferred until the third year.
PHYSICAL EDUCATION FOR WOMEN CURRICULUM
(Three years in length)

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

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

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

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

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

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

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

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

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

Minimum term hours required—144.

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

For the Preparation of Teachers of Rural High Schools

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

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

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

4. Two minor sequences of 12 term hours each with 4 term hours of teaching added to one of these subjects.

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

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

Minimum term hours required—96.

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

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

3. Major and minor subjects are available in science, mathematics, literature, history, and social science, and in agriculture, home economics, and manual arts. Eleven term hours of free electives enables the student to choose among such professional subjects as secondary school administration, problems of county normal teachers and rural supervisors, genetic psychology, educational measurements, mental tests, school supervision, curriculum, history of education, or additional academic subjects.

4. Mature second year students who have had sufficient teaching experience and are able to do independent study, may elect work in rural education in the seminar course for third and fourth year students with the consent of the instructor. This course meets two hours per week.

5. Attention is called to the following courses:
   - Educational Measurements 206.
   - Genetic Psychology 203.
   - Extra-curricular Activities 220,
RURAL ELEMENTARY CURRICULUM
(Two years in length)

For the Preparation of Teachers of Rural Elementary Schools

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

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

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

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

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

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

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

8. At pleasure ......................................................................... 7 term hours

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

Minimum term hours required—96.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 8.
2. Attention is called to the following courses:
   - Agriculture 142, 143, 144.
   - Art Education 207.
   - Literature for Children 103.
   - Lyric Poetry 111.
   - Mythology 108.
   - Story Telling 111.
   - Hygiene 112.
   - Health Education 215.
   - The Teaching of Geography 212.
   - The Teaching of History 202.
   - Psychology of Reading 104.
LIMITED CERTIFICATE CURRICULUM
(One year and one Summer session in length)

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

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

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

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

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

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

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

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

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

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

Minimum term hours required—56.

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

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

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

(a) Each applicant must complete the following subjects:
- Psychology 101 ................................................................. 4 term hours
- Observation and Teaching 101 .............................................. 4 term hours
- Written English 101 A ..................................................... 4 term hours
- Hygiene 112 ........................................................................ 4 term hours
- Agriculture 141 ................................................................. 4 term hours
- Reading 104 ......................................................................... 4 term hours
- Principles of Teaching 101 R ............................................... 4 term hours
- Curriculum 101 .................................................................... 4 term hours

(b) Each applicant must complete a year's work by electing from this list of subjects:
- Art 102 .............................................................................. 4 term hours
- Music 106 ............................................................................ 4 term hours
- History 101 A, B, or C ......................................................... 4 term hours
- Geography 101 ..................................................................... 4 term hours
- Arithmetic 101 ..................................................................... 4 term hours
- Grammar ............................................................................. 4 term hours
- Rural Sociology 103 .......................................................... 4 term hours
- Nature Study 131 or Agriculture 141 .................................... 4 term hours
- Psychology 102 .................................................................... 4 term hours

(c) Non-credit courses required of each applicant:
- Penmanship.
- Physical Education, 2 terms.

Minimum term hours required—48

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

43

BACHELOR OF ARTS

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

At its regular meeting, March 29, 1918, the State Board of Education authorized the normal schools of the state to formulate a four-year curriculum leading to the Bachelor's degree. The curriculum is the same for all of the normal schools of Michigan, and leads to a Life Certificate and the degree of Bachelor of Arts.

The four-year curriculum will in no way interfere with the two-year or three-year Life Certificate curricula already in force in the Western State Normal School, and it is possible for students in many of these curricula to plan their work so that it will count as part credit toward the degree. However, the entrance requirements for the four-year curriculum are more rigidly prescribed than for the Life Certificate curricula, and candidates for a degree must satisfy these entrance requirements.

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

General Requirements for Admission

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

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

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

Subjects Required for Admission*

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

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

Subjects Accepted for Admission.

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3 or 4 units</td>
</tr>
<tr>
<td>Greek</td>
<td>2 or 3 units</td>
</tr>
<tr>
<td>Latin</td>
<td>2, 3, or 4 units</td>
</tr>
<tr>
<td>French</td>
<td>2, 3, or 4 units</td>
</tr>
<tr>
<td>Spanish</td>
<td>2, 3, or 4 units</td>
</tr>
<tr>
<td>History</td>
<td>1, 2, or 3 units</td>
</tr>
<tr>
<td>Algebra</td>
<td>1, 1½, or 2 units</td>
</tr>
<tr>
<td>Geometry</td>
<td>1 or 1½ units</td>
</tr>
</tbody>
</table>

*See new Entrance Requirements in catalog of 1927-1928.
Trigonometry .................................................. \( \frac{1}{2} \) unit
Physics .......................................................... 1 unit
Chemistry ....................................................... 1 unit
Physiology ...................................................... \( \frac{1}{2} \) unit
Geology ........................................................... \( \frac{1}{2} \) unit
Botany ........................................................... \( \frac{1}{2} \) or 1 unit
Zoology .......................................................... \( \frac{1}{2} \) or 1 unit
Physiography .................................................. \( \frac{1}{2} \) or 1 unit
Elementary Economics ......................................... \( \frac{1}{2} \) unit
Agriculture ...................................................... 1 or 2 units
Household Arts .................................................. 1 or 2 units
Drawing .......................................................... \( \frac{1}{2} \) or 1 unit
Manual Arts ....................................................... 1 or 2 units
Commercial Branches .......................................... 1 or 2 units
General Science ................................................ \( \frac{1}{2} \) unit

Requirements for the Degree of Bachelor of Arts

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

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

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

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

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

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

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

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

Minimum term hours required—192.
BACHELOR OF SCIENCE

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

Requirements for Admission

The requirements for admission to the Bachelor of Science curriculum are the same as for the Bachelor of Arts curriculum (pages 43-44) except that, prior to September, 1928, the option is granted of presenting, in place of two units of foreign language, two units chosen from the departments of mathematics, natural science, or social science.

Requirements for the Degree of Bachelor of Science

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

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

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

Courses must be elected so that the requirements in some one of the Life Certificate curricula are fully satisfied.

*See new Entrance Requirements in catalog of 1927-1928
Credits counted toward a degree must be earned in courses generally recognized as of college grade. After June of 1928, candidates for the degree of Bachelor of Science must present a major sequence of thirty-six term hours of consecutive, coherent courses elected from a department or from related departments, and a minor sequence of twenty-four term hours of consecutive, coherent courses.

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

Minimum term hours required—192.
Extension courses are open to:
a. High school graduates, with or without experience, who wish to earn credits to apply on certificates or on degrees.
b. High school graduates who wish to take work purely for personal pleasure and profit with or without credit.
c. Mature persons who wish to pursue work for pleasure and profit with or without credit.

All instruction in Extension courses is given by members of the regular faculty of Western State Normal School. The work takes two forms:
a. Class work at a strategic center within range of the school which the instructor visits at frequent intervals (usually every week). Most classes meet on Saturday.
b. Carefully organized correspondence courses. Students who choose this type of work are directed in their study through outlines and personal letters from members of the faculty.

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

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

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

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

The schedule of fees follows:

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

Henceforth for students who enroll for extension work the following rules regarding the amount of such work permitted will apply:
1. A maximum of one-fourth of the required number of courses for a Life Certificate and for the A.B. or the B.S. degree may be earned by extension.
2. A maximum of two courses may be earned by extension by graduates of County Normals who are also graduates of four-year high schools.
3. Not more than two extension courses can be applied toward the requirements for the Limited Certificate or towards the requirements to satisfy the 1925 Certification Law.

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

ART

101. Teachers' Art. 2 term hours. Mrs. Struble.
Lettering, color study, art appreciation, school room arrangement, arrangement of bulletin board, pictures, flowers, correlation of the teaching of art with geography, history, and English.

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

102. Teachers' Art. 4 term hours. Miss Broemel, Miss Fenstermacher, Mrs. Struble.

This course prepares the student to direct art activities in the elementary grades. It includes such things as drawing, lettering, color theory, and paper cutting. Problems suitable for different grades and methods of presenting them to children are discussed. Required of Early Elementary, Later Elementary, Limited, Art, and Art and Music students.

103. Industrial Art. 4 term hours. Miss Roberts.
Problems in handwork naturally evolving from a study of how the world provides itself with food, clothing, shelter, utensils; of how it puts itself on record, and of modes of travel.

205. Figure Drawing. 4 term hours. Prerequisite: Teachers' Art 102. Miss Stevenson.
Rapid sketches of the human figure in action. Preliminary sketches of hands and parts of the face. Careful drawing of the clothed model in pencil, charcoal, or crayon.

212. Handicrafts. 4 term hours. Prerequisite: Teachers' Art 102 or Industrial Art 103. Miss Stevenson.
Gesso, paintex, chemi-color, dye, and similar art materials are used in the decoration of various craft problems.

308. Advanced Art Composition. 4 term hours. Prerequisite: Teachers' Art 102, Elementary Design 109, Art Composition 208, or the consent of the instructor. Miss Roberts.

This summer the course will center about the study of prints and print making. This will include such work as wood block printing, monotyping, pure line and soft ground etching on zinc or copper plates, and drypointing.

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

This will involve the study of composition, color and good technique. Landscape in oil out of doors when weather permits. Otherwise, still life such as flowers and objects, are painted in the studio.

BIOLOGY

General Courses

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

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

203. **Summer Biological Study Tour.** 4 term hours. Prerequisite: a year's work in the biology department, or an equivalent. To be given during the three weeks immediately following the Summer session. Dr. Goddard.

This is an auto camping tour for biological study. The present plan for this summer is to make the Kilbourne Dells and the Devil's Lake region of Wisconsin the main objective, to be reached by way of Northern Michigan, then eastward into Wisconsin and south to the Dells and Devil's Lake, where special studies will be pursued. The homeward trip will probably be by way of Madison and Chicago. Special points of interest will include the Lake Michigan sand dunes, several state parks in both Michigan and Wisconsin, the Keweenaw copper region, and probably brief stops at the universities of Wisconsin and Chicago. Studies in both plant and animal life together with some study of the geological formations of Wisconsin will be included. Cost: $10 tuition and pro rata travel and camp expenses, probably amounting to around $40. Consult instructor for further details.

301. **Organic Evolution.** 4 term hours. Prerequisite: at least one term of collegiate biology. Dr. Goddard.

The subject is treated as the logical scientific attitude toward the whole universe and as the method of development of all nature, physical as well as biological. An outline is given of what evolution really means together with evidences of its truth and the probable steps by which it has progressed in both the animal and the plant kingdoms. Present knowledge of the factors or causes of evolution are considered. Relations between Darwinism and evolution are pointed out. Some time is devoted to the study of illustrative materials in the laboratory.

**Anatomy and Hygiene**

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

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

211C. **Physiology.** 4 term hours. Prerequisite: high school physiology. Mr. Place.

This is an advanced course prepared especially for teachers. Some laboratory work will be done on such topics as the chemistry of digestion, and considerable microscopic study of tissue sections will be made.

**Botany**

121. **Elementary Botany.** 4 term hours. Laboratory and field work. Miss McCorkle.

Designed for those who have not studied botany. Devoted to the structure, functions, and classification of seed plants.

**Nature Study**

131. **Biological Nature Study.** 4 term hours. Miss Hadley.

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

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

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

137. Scout Leaders' Nature Study. 4 term hours. Prerequisite: high school biology or its equivalent. The staff of the biology and geography departments.

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

Agriculture

141. General Agriculture. 4 term hours. Miss McCorkle.

For those who can take only one term of agriculture preparatory to teaching in a rural school. An understanding of the farmer and his task will be sought, curricular content and its arrangement will be considered, elementary agriculture texts will be evaluated, sources of illustrative and reference material will be presented, and methods of teaching agriculture will be considered. Problems involving all phases of farm activity are presented for solution. A general knowledge of agriculture is thus acquired.

CHEMISTRY

102 A, B, C. General Chemistry. 12 term hours. Each term's work is offered. Mr. Eldridge, Dr. McCracken.

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

Classroom, 3 double periods a week; laboratory, 4 double periods a week.

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

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

Classroom, 3 double periods a week; laboratory, 4 double periods a week.

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

Basic analysis.
Classroom, 2 double periods a week; laboratory, 8 double periods a week.

201B. Qualitative Analysis. 4 term hours. Prerequisite: Chemistry 201A. Dr. McCracken.
Acid analysis. Almost entirely laboratory work. A minimum of 20 hours of laboratory work per week required.

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

The aliphatic (fatty) series are studied—paraffins, alkyl halides, alcohols, aldehydes, ketones, sugars, amines, and acids.

Classroom, 3 double periods a week; laboratory, 4 double periods a week.

202B. Organic Chemistry. 4 term hours. Prerequisite: Chemistry 101 A, B, C, or 102 A, B, C, and 202 A. (Not offered during the summer of 1928.) Mr. Eldridge.

The aliphatic (open chain) and aromatic (closed chain) compounds are studied.

Classroom, 3 double periods a week; laboratory, 4 double periods a week.

303A. Quantitative Analysis. 5 term hours. Prerequisite: Chemistry 101 A, B, C, or 102 A, B, C, and 201 A, B. Dr. McCracken.


Classroom, 1 double period a week; laboratory, 8 double periods a week.

303B. Quantitative Analysis. 4 term hours. Prerequisite: Chemistry 101 A, B, C, or 102 A, B, C, 201 A, B, and 303 A. Mr. Eldridge.


Classroom, 1 double period a week; laboratory, 8 double periods a week.

Note.—For special courses in chemistry consult the instructors.
208. **Shorthand and Typewriting.** 4 term hours. Prerequisite: Shorthand and Typewriting 102 A, B, C, or their equivalent. Mrs. Clark.

This course is designed for teachers. Special attention will be given to methods of teaching shorthand and typewriting in secondary schools, the teaching of transcription, and to current literature and texts.

303. **Accounting Theory.** 4 term hours. Prerequisite: Accounting 201 A, B, and C or equivalent. Mr. Pennell.

An advanced course in theory. The first part of the course is given to a consideration of the fundamental principles of the double-entry system of bookkeeping, and the last part to a study of several special topics concerned with the valuation of assets, the determination and sources of income, and the organization of the corporate enterprise. Readings and problems will be assigned.

**EARLY ELEMENTARY EDUCATION**

101A. **Early Elementary Education.** 4 term hours. Miss Coppens.

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

101B. **Early Elementary Education.** 4 term hours. Prerequisite: Early Elementary Education 101A, Psychology 101. Miss Coppens, Mrs. Phillips.

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

101C. **Early Elementary Education.** 4 term hours. Prerequisite: Early Elementary Education 101 A, B. Psychology 101. Mrs. Campbell.

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

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

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

202. **Stories for Childhood.** 2 term hours. Prerequisite: Early Elementary Education 101 A, B. Mrs. Campbell, Mrs. Phillips.

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

**EDUCATION AND PSYCHOLOGY**

**Education**

101. **Principles of Teaching.** 4 term hours. Prerequisite: Psychology 101, 102. Miss Mason, Miss Spindler.
Includes such topics as the curriculum, moral and social training, discipline, type lessons, questioning, and lesson plans. Systematic observation of classes in the training school is made, and standards for judging classroom instruction are worked out.

201. Junior High School Education. 4 term hours. Prerequisite: Psychology 102, Principles of Teaching 101. Mr. Heathcote.

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

206. Educational Measurements. 4 term hours. Prerequisite: Psychology 101, 102. Dr. Ellis.

A beginning course in educational tests and measurements. Includes such features as the psychology of individual differences, elementary statistical methods, essentials of test and scale construction, validity and reliability of measurement, a study of standardized tests and scales in the several school subjects, diagnosis and treatment of special difficulties, informal tests, testing programs, school surveys.

220. Extra-curricular Activities. 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Miss Mason.

A study and discussion of selected problems in the organization, administration and supervision of such activities as aid in training for citizenship,—debating, journalism, athletic clubs. Intended for prospective directors or advisers of student activities or home-room teachers.

226. Fundamentals of School Administration. 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Mr. Van Buskirk.

Lectures and discussions developing fundamental relationships and principles of action between school administrators, teachers, and “public,” and giving a general insight into the duties and responsibilities of the superintendent of schools.

306B. Problems of Secondary School Education. 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Dr. Halnon.

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

328A. Supervision of the Elementary Curriculum. 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Dr. Hilliard.

Introduction to the field of curriculum making; working out of the principles underlying the same; special emphasis on spelling, reading, oral English, and written English.

330C. School Supervision. 4 term hours. Prerequisite: Psychology 101, 102, Education 101, Teaching 202. Miss Steele.

A course for those looking forward to positions as principals and supervisors of elementary schools and critic teachers in normal schools. The course deals with the problems of supervision, with special emphasis upon the improvement of teaching. Opportunity is provided for practical experience. Among the more important topics are: diagnosis of observed instruction, methods of improvement, methods of meeting teachers individually and in groups, the selection of textbooks, the use of standard tests.
427. Administration of Educational Measurements. 4 term hours.  
Prerequisite: Psychology 101, 102, and 205, Education 206. Dr. Sangren.  
An advanced course in educational measurements based upon a knowledge of the fundamentals of educational and mental testing. The purpose of the course is to consider how to conduct testing programs and how to interpret and use test results. The work of the course will involve a certain amount of actual practice in testing, reporting the results of testing, and applying statistics to educational problems. The course is intended primarily for those who expect to be responsible for measurement work in a school system, whether in the capacity of superintendent, principal, supervisor, or director of educational measurement.

Psychology

101. Introductory Psychology. 4 term hours. Mr. Van Buskirk.  
A beginning course serving as a scientific basis for subsequent courses in education, as well as an introduction to the field of psychology itself.

102. Educational Psychology. 4 term hours. Prerequisite: Psychology 101. Dr. Halnon, Mr. Pellett.  
An application of the principles of psychology to the practical work of classroom teaching.

104. Psychology of Reading. 4 term hours. Prerequisite: Psychology 101.  
Dr. Hilliard, Miss Spindler.  
A summary of the results of the scientific studies made in the field of reading, with suggestions as to the bearing of these studies upon the material and methods of teaching.

203. Genetic Psychology. 4 term hours. Prerequisite: Psychology 101, 102. Dr. Henry.  
A study of the development of mind in the race and in the individual.

205. Mental Tests. 4 term hours. Prerequisite: Psychology 101, 102. Dr. Sangren.  
An introduction to the use of mental tests. About two-thirds of the course is given to supervised training in the administration of the Stanford Revision of the Binet-Simon individual intelligence tests. Actual practice in the giving of mental tests is provided.

320. Abnormal Psychology. 4 term hours. Prerequisite: Psychology 101, 102. Dr. Henry.  
A discussion of the more common forms of mental abnormality and maladjustment. Some attention will be given to feeble-mindedness. The relationship between such conditions and character development will also be considered.

ENGLISH

A miscellaneous review and drill for students who are deficient in the rudiments of English grammar, spelling, and punctuation. Such students will be required to carry this work in connection with the regular courses in composition and rhetoric in order that they may receive such extra attention as cannot be given them in these classes. The class meets twice a week.
101A. Composition. 4 term hours. Miss Loutzenhiser, Mr. Masterson, Miss Swain.

A consideration of the principles of composition, with emphasis upon sentence and paragraph structure. Representative prose selections are read and analyzed, and many written compositions are required.

101B. Composition. 4 term hours. Miss Eicher, Miss Gary, Miss Van Horn.

A general discussion of the four forms of discourse with analysis of specimens of each form. Most of the time will be devoted to the writing and correction of themes.

103. Literature for Children. 4 term hours. Miss Master, Miss Rawlinson.

This course aims: (1) to give a general survey of the field of literature suited to the needs and tastes of children; (2) to get at the general principles which underlie the selection of literature for children under any given conditions; (3) to organize and give new meaning to the mass of literature already read, and to add largely to its content by further reading. While this is primarily a course in literary material for class use, some attention will be paid to the subject of general reading for children, both inside and outside of school.

121. American Poets. 4 term hours. Mr. Masterson.

The work of this course consists of wide reading in the poetry of Bryant, Poe, Longfellow, Emerson, Whittier, Lowell, Holmes, Whitman, and Lanier. This is supplemented by intensive study of some of their chief poems and by some considerations of their significance in American Literature.

122. American Prose. 4 term hours. Miss Swain.

The work of this course consists of wide reading in the prose of Irving, Emerson, Hawthorne, Melville, Thoreau, and Mark Twain. This is supplemented by individual study of other prose writers as recent as Henry James and William Dean Howells.

202A. Representative English Poetry. 4 term hours. Miss Eicher.

The aim of this course is to help the student become more familiar with representative poets of England and the relation of each to the period and movement in which he worked. Selections will be read and discussed in class. Students who take this course and later desire a survey course in English literature should select History of English Literature 302.

202B. Representative English Prose. 4 term hours. Miss Van Horn.

The purpose of this course is to give the student a greater familiarity with the most representative work of England's best prose writers. Stress will be placed upon the significance of each work in relation to the literary and social movements of the times. Selections will be read and discussed in class. Students who take this course and later desire a survey course in English literature should select History of English Literature 302.

226. Masterpieces. 4 term hours. Miss Loutzenhiser.

This course has for its purpose an intensive study of some of the masterpieces of English literature. The masterpieces studied are as follows: *Canterbury Tales, Faerie Queene, Othello, The Return of the Native*.

317. The English Epic. 4 term hours. Dr. Brown.

A study of the general characteristics of the epic. The class will make a careful study of *Paradise Lost*. Selections will be read from other epics for comparative study.
323. **Advanced Rhetoric.** 4 term hours. Mr. Foley.

In this course some attention is given to the historical background and method of development of the language. Such subjects as point of view, fashion in language, euphemism, poetic imagery, and shifting meanings of words are studied, with a view to illuminating much that lies back of literary expression, and to sharpening and vivifying the student's appreciation of literature. It is taken for granted that those who enroll in the course have had considerable work in English or in foreign language.

326. **Pope and His Contemporaries.** 4 term hours. Mr. Foley.

In this course, attention will be paid to certain ideals of the eighteenth century with respect to literary form, as shown notably in the heroic couplet, and in certain qualities of diction in both verse and prose. Reverence for the Greek and Latin classics, disillusionment concerning the virtue of governmental machinery, supreme faith in the infallibility of human reason, distrust of the emotions, and so-called natural religion, will be studied as phases of eighteenth-century thought which are clearly reflected in the literature of the period. The selections for required reading will include, among others, Pope's *Essay on Criticism, Essay on Man,* and *Rape of the Lock,* Gulliver's *Travels* and other satires by Swift, a number of the *Taller* and *Spectator* papers of Addison and Steele, and Johnson's *Rasselas.* The underlying purpose of the course is to indicate important points of difference and of resemblance between this literary period and others, including our own.

333. **Lives and Letters of English Authors.** 4 term hours. Prerequisite: freshman or sophomore courses in English literature. The instructor's consent is required. Dr. Brown.

This course will combine a detailed study of the Wordsworths, the Carlyles, and others, with wide reading in biography and letters. Reports and critical essays will be required. This course may be substituted for one of the units of Group I of the A.B. course.

### GEOGRAPHY AND GEOLOGY

**Geography**

101A. **Elements of Geography.** 4 term hours. Miss Harrison.

An introductory study of the mutual relationships between man and the natural environment with special emphasis upon types of climate and some of the adjustments which man makes to climatic conditions in selected regions.

101B. **Elements of Geography.** 4 term hours. Prerequisite: Geography 101A. Miss Boswell.

An introductory study of the mutual relationships between man and the natural environment with special emphasis upon adjustments to location, land forms, soils, minerals, ground and surface waters, oceans and coast lines in selected regions. An elementary study is made of map projection.

105. **Geography of the United States and Canada.** 4 term hours. Prerequisite: Geography 101 A, B. Miss Boswell.

A study of the two countries by geographic regions.

203 **Geography of Europe.** 4 term hours. Desirable antecedents: Geography 101 A, B. Mr. Wood.

The relation of the continent to the world as a whole, its physical features, climates, resources, and the influences of geographic conditions on the development and present social, industrial, and commercial life of its leading nations.
212. The Teaching of Geography in the Grades. 4 term hours. Pre-requisite: Geography 101 A, B. Miss Harrison.

Objectives in the teaching of geography, evaluation and technique of visual aids, organization and presentation of textual material, geographic tests.

Geology

207. Geology. 4 term hours. Mr. Wood.

An introduction to earth history. It includes a brief study of the earth's physiography, climate, minerals, genesis of ore deposits, the origin of the earth, the evolution of plants and animals, the origin of mountains, and the history and growth of the continents.

Note.—This is an appreciation course similar to survey courses in chemistry and biology and should not be elected by students desiring a year's work. Such students should elect Geology 320 A, B, C.

HISTORY AND SOCIAL SCIENCE

History

101A. United States History to 1789. 4 term hours. Miss Burnham, Dr. Knauss, Miss Seekell.

Starting with the European background of American history, this course treats the origin and growth of the colonies, discusses their relation to the mother country, and shows why and how the independence of the United States was established. Special attention is given to the causes and course of the Revolution and to the beginnings of state and national government.

101B. United States History, 1789-1865. 4 term hours. Dr. Russel.

This course treats American history from the inauguration of Washington to the close of the Civil War. The organization of the government under the Constitution, the rise of political parties, the movement into the West, the influence of the frontier, the industrial revolution and its consequences, the rising tide of democracy, the slavery controversy, the sectionalization of the country, and the Civil War are among the chief topics studied.

101C. United States History, 1865 to the present time. 4 term hours. Dr. Russel.

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.

102A. History of Greece. 4 term hours. Mrs. Johnson.

After a brief survey of ancient Oriental civilization, this course studies the political, social, and cultural life of the Greek people from their earliest history to the breaking up of the Empire of Alexander the Great. Emphasis is placed upon our debt to the Greeks for the elements which they contributed to modern civilization.

201B. Modern Europe, 1763-1870. 4 term hours. Miss Howell.

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.
202. The Teaching of History. 4 term hours. Prerequisite: two college courses in history. Mr. Burnham.

This course is intended for students in the Later Elementary and Junior High School groups. It deals with the aims, content, organization, presentation, and testing of history in the grades. The evaluation of texts, the planning of lessons, the selection and gradation of collateral reading, the correlation of history with the other branches of the curriculum and with the various activities of the school will receive attention.

301C. United States History, 1901-1926. 3 term hours. Mr. Burnham.

The era of Roosevelt and 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.

304. Latin American History. 3 term hours. Dr. Knauss.

A survey of the history of the Latin American countries. Particular attention will be given to the political, the economic, and social institutions and problems of Latin America.

Political Science

201B. State and Local Government. 4 term hours. Mr. Shilling.

Since the citizen has many contacts with the state, city, or county government, an effort will be made to acquaint the student with the organization, aims, and problems of state, county, and municipal government.

301C. American Municipal Government. 3 term hours. Prerequisite: Government 201B. Mr. Shilling.

Attention is focused on the problem of city government, growth of cities, types of city organization, municipal functions and finances, administrative personnel, public utilities, and public conveniences.

Economics

101. Introduction to Economics. 4 term hours. Mr. Moore.

Gives a background of business information that will develop an interest in and prepare for further study in this field; or, for the student with but one course in the subject, will be of practical value in interpreting the business aspects of his profession. Primarily descriptive of productive industries, production and marketing methods, corporations, methods of transportation, the work of banks, insurance companies, labor organizations and other agencies as they function in the modern business world. Economic principles are not presented. Designed for those who desire only one term in the subject or have had no economics in high school.

201 A, B. Principles of Economics. 8 term hours. Dr. Griffith.

A study of the fundamental principles of economics and their application to some of the more important of our present economic problems. Its purpose is to acquaint the student with the underlying forces and generally accepted laws which govern our economic life, and to train him in methods of straight thinking which will enable him to get at the heart of economic problems which face every individual in his own daily life and in the fulfilling of his duties as a citizen. This course is a prerequisite to all further work in Economics.

202. Financial Organization. 4 term hours. Prerequisite: Economics 201 A, B. Mr. Moore.
A survey course designed to present the essential features of the modern financial system upon which business rests, and to enable the student to obtain an understanding of the economic functions performed by each of the numerous financial institutions—investment banks, stock exchanges, commercial banks, trust companies, savings institutions, commercial paper houses, discount companies, Federal Reserve, and Federal Farm Loan institutions, which together comprise this system.

Sociology

103. Sociology. 4 term hours. Elective for freshmen only. Miss Skinner.
A study of social relations and activities in small communities. An elementary textbook in general sociology and a text dealing specifically with village and country life are used. A collection of source materials illustrating the co-operation of teachers and schools in local activities is available.

201A. Society and the Individual. 4 term hours. Dr. Terpenning.
A discussion of the psychological approach to the study of sociology. It includes some consideration of the bearing of the evolutionary theory on sociological thought, and takes up such subjects as suggestion and choice, sociability and personal ideas, sympathy, the social self, hostility, emulation, leadership, conscience, degeneracy, and freedom.

201B. Social Organization. 4 term hours. Prerequisite: Sociology 201A. Dr. Terpenning.
The group phase of the organic relation between society and the individual is presented in connection with such subjects as the following: primary groups and the ideals which develop in them; the importance of communication in the extension of primary ideals to the more elaborate groupings; systems of idealism such as Democracy and Christianity; the organization and function of social classes; the nature, functions, and dangers of institutions; the importance and control of public will.

301B. Social Maladjustments. 4 term hours. Prerequisite: Sociology 201A, Social Organization 201B. Dr. Barnes.
Modern methods of dealing with poverty, and the defective and delinquent classes of society. Child-caring agencies and their methods; institutional treatment of the feeble minded, the insane, and the criminal; causes and methods of prevention of juvenile delinquency will be studied. Training required for social workers and methods of investigation will also be taken up. The text will be supplemented by reference reading, particularly along lines of criminology and juvenile delinquency. Some field work will be done and reports made on special topics.

301C. The Family. 4 term hours. Prerequisite: Sociology 201A, Social Organization 201B. Dr. Barnes.
A review of the history of the family and marriage. Lectures, reports, and discussions of modern theories and problems.

Home Economics

Foods and Cookery

107. Cookery. 4 term hours. Miss Walton.
This course offers practical work in the cooking of all classes of foods, such as cereals, vegetables, meats, eggs, breads, and pastry. Breakfasts, luncheons, and dinners are planned, cooked, and served by the group. Open to all students.
207. Nutrition. 4 term hours. Miss Moore.

The purpose of this course is to teach the proper selection, the nutritive value, and the importance of a well balanced diet for individuals and typical family groups.

208. Home Management. 4 term hours. Miss Walton.

A study of the home, family relationship, and administrative problems.

308. Household Arts Education. 4 term hours. Miss Moore, Mrs. Schumacher.

A laboratory course dealing with problems in teaching Home Economics. Conferences will be arranged with teachers in service. Open to graduate students and to those who have had experience in teaching Home Economics.

Clothing

104. Millinery. 2 or 4 term hours. Miss Walker.

Millinery design and fundamental processes of construction.

107. Clothing. 2 or 4 term hours. Mrs. Schumacher, Miss Walker.

Dress appreciation and elementary sewing for students who have had little experience.

210. Clothing. 4 term hours. Prerequisite: two courses in Clothing or equivalent. Mrs. Schumacher.

Applied dress design for advanced students or graduates. The course includes making a paper dress form and its use. Emphasis is placed on the application of art principles to the costume.

LATIN

101B. Cicero. 4 term hours. Miss Kraft.

Readings from Cicero or selected authors. Credit to apply on third year Latin.

Note.—Arrangements may be made so that credit will apply on second year high school Latin.

201A. Horace. 4 term hours. Prerequisite: at least three years of Latin. Miss Kraft.

Selections from the Odes and Epodes. May be substituted for four term hours of fifth or sixth year Latin.

106. Teachers' Course. 4 term hours. Miss Kraft.

Aims, methods, and problems of the first two years of high school Latin will be discussed. The report of the Classical Investigation and other up-to-date material will be used.

Note.—Of courses 201A and 106 the one will be given which has the larger enrollment.

LIBRARY


A course of ten lessons on the use of the library. Required of all freshmen.
99. **Elementary Woodwork.** High school credit only. Mr. Sherwood.

A beginners' course in the fundamentals of hand woodworking. Care and use of the common bench tools, and simple wood finishing. Designed particularly to prepare the student of limited experience for shop courses of college grade, and required of all students who have not had this work in accepted high schools.

99. **Mechanical Drawing.** High school credit only. Mr. Huff.

Lettering, technical sketching, working drawings of simple objects, involving top, front, and end views, invisible edges, sections, auxiliary views, tracing, inking, and blue printing as outlined by the State of Michigan course of study of mechanical drawing for high schools. Required of all manual arts students who have not had a satisfactory course in high school mechanical drawing.

101. **Woodshop.** 4 term hours. Prerequisite: consent of instructor. Mr. Sherwood.

A general elementary course in beginning benchwork. Includes shop drawing, blue print reading, and fundamental tool processes, as well as general information helpful in organizing elementary woodworking classes. A combination theory and laboratory course.

102A. **Household Mechanics.** 4 term hours. Mr. Rapson.

A course in the selection and use of tools and materials and operation and repair of mechanical devices used in maintaining the home. Practical problems in repairing door bells, electric flatirons, plumbing, glazing, painting, soldering and carpentry. Suitable equipment lists for installations of new household mechanics as well as for the converted woodshop type.

103A. **Advanced Benchwork.** 4 term hours. Prerequisite: Elementary Woodwork 99 or equivalent. Mr. Sherwood.

A more advanced course in woodworking with particular emphasis on technique of hand tools, grinding and sharpening. Includes elementary pattern making and molding.

111A. **Mechanical Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 99 or equivalent. Mr. Huff.

111B. **Mechanical Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 111A. Mr. Huff.

More advanced problems in mechanical drawing, detailing, design, theory and application, ranging from simple geometrical problems through surface development to machine details, cams, and gears. Special emphasis on review of the fundamentals of drawing; discussion of teachers’ problems.

116A. **Printing.** 4 term hours. Mr. Pullin.

This course is for beginners and is intended to acquaint the student with the various tools and materials of a print shop and to teach him the fundamentals of plain type composition, as he carries simple jobs through the various stages from composition to making ready and putting on the press and feeding. Practical work is given in setting straight composition and simple forms.

116B. **Printing.** 4 term hours. Prerequisite: Printing 116A. Mr. Pullin.

This is a continuation of course 116A, in which proportion and balance are emphasized, including a study of type faces. Practical work is given in the composition of more complicated pieces of printing, involving rule work, borders, ornaments. Practical work is given in make-ready of forms on press and feeding.

116C. **Printing.** Prerequisite: Printing 116A, B. 4 term hours. Mr. Pullin.

Advanced work in the complete designing and producing of printed matter with a study of plates, papers, and inks. Advanced imposition and press-work.

201. **Mechanical and Machine Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 99 or equivalent. Mr. Huff.

This course is the same as Drawing 1 of the Engineering Department, University of Michigan, and it fits the requirement of both future engineering students and teachers of Mechanical Drawing. Special attention is given to orthographic projection, detailing assemblies, and other fundamentals of drafting.

204. **Wood Turning.** 4 term hours. Mr. Nichols. (Not offered during regular terms of 1927-1928.)

An elementary course in the fundamentals of wood turning. It includes spindle and oval turning, chuck, faceplate, and sphere turning. Special attention is given to tool grinding and the care of various types of wood lathes. Organization of a course of study.

205. **Woodshop.** 4 term hours. Prerequisite: 103A. Mr. Nichols. (Not offered during regular terms of 1927-1928.)

An introductory course in the use and care of woodworking machines. Special emphasis is given to the various types of machines and points to be considered in the buying of woodshop equipment. Much attention is given to jointer and surfacer grinding, band saw filing, and brazing, and circular saw fitting. Types of furniture construction are worked out through a series of fundamental problems.

207A. **Wood Finishing.** 4 term hours. Mr. Nichols. (Not offered during regular terms of 1927-1928.)
The working out of the standard finishes, along with some of the more popular finishes now in vogue in industrial finishing, on a group of panels of the same woods as those used in the construction of modern furniture.

215 A, B. Architecture. 8 term hours. Prerequisite: one year of collegiate drawing. Mr. Huff.

Plans, elevations, detailing, rendering, perspective, estimates, tracing, blueprinting, of structures ranging from simple one-story buildings to original designs for modern homes. Special emphasis placed on practical work and architectural appreciation.

216. Printing. 4 term hours. Mr. Pullin.

Keeping of records and accounts. Purchase of materials. Planning and laying out equipment. School publication. Students will be encouraged to contribute and work out courses of study and original ideas intended to broaden the scope of the shop's work and increase its efficiency.

212 A, B, C. Auto Mechanics. 4 term hours. Mr. Bacon.

A study of the various parts of the automobile, such as axles, springs, transmission, power plants, and repair jobs on these units. A thorough study of electricity as applied to the automobile, including storage battery repair, ignition, starters, generators, wiring, and lighting. Vulcanizing and welding are also taught.

301. Shop Organization. 4 term hours. Prerequisite: consent of instructor. Mr. Sherwood.

This course is planned to meet the needs of those students who have had considerable experience or training and who wish to organize this experience and adapt it to the needs and requirements of schools. Courses of study are worked out, with models and methods of class procedure. Shop arrangements, equipment, supplies, and inventories are carefully studied.

308. A, B, C. Woodshop. 4 term hours. Prerequisite: Woodshop 205. Wood Finishing 207. Mr. Nichols. (Not offered during regular terms of 1927-1928.)

An advanced course in machine woodshop designed for those who wish to specialize in woodwork. This course includes more advanced problems in furniture construction and design. Some attention is given to caning and simple upholstery, wood steaming and bending. In this course each student makes a layout of an ideal woodshop, equipping the same, putting in all power lines, openings, and similar things for the various machines. Much time is given to the selection of material and the organization of a course of study suitable for senior high school work.

MATHEMATICS

100A. Algebra Beginning with Quadratics. 4 term hours. Miss Shaunding.

Designed for students who present for admission one year only of algebra. For those students it should precede all other courses in mathematics.

100C. Trigonometry. 4 term hours. Miss Shaunding.

Plane trigonometry, trigonometric functions, identities, inverse functions, solution of triangles by logarithms.
101. Arithmetic. 4 term hours. Prerequisite: high school algebra and geometry. Mr. Cain.

A teachers' course. Lectures and discussions on the history and teaching of the subject, with assigned reading. Extended treatment of typical problems of applied arithmetic.

102. Teaching of Junior High School Mathematics. 4 term hours. Prerequisite: high school algebra and geometry. Mr. Everett.

This course will consist of a series of talks and discussions, with assigned readings for junior high school teachers on the best methods of teaching mathematics in the seventh, eighth, and ninth grades. Such topics as the function concept, graphs, the transition from arithmetic to algebra, formulas, and the more modern business applications of the subject will be considered along with the more traditional material of these grades.

110. Surveying. 4 term hours. Prerequisite: Trigonometry. Mr. Everett.

A course in field work involving actual problems in surveying and leveling. The final test consists of field notes and a map from a personal survey of an irregular tract.

115. College Algebra. 4 term hours. Mr. Bartoo.

A thorough review of elementary algebra, followed by topics usually studied in college algebra, such as the function concept, determinants, permutations and combinations, theory of equations, and logarithms.

116. Analytic Geometry. 5 term hours. Prerequisite: Trigonometry and College Algebra. Miss Ford.

Analytic geometry of the straight line, circle, and conic sections. This course is designed to follow course 115, and students who have completed courses 100C or 104C, 115, and 116, will be admitted to Calculus.

205. Calculus. 4 term hours. Prerequisite: College Algebra and Analytic Geometry. Mr. Bartoo.

An elementary course in differential calculus.

208. The Teaching of Geometry. 2 term hours. Mr. Cain.

The aim of this course is to give the prospective teacher the best educational thought relating to the content and teaching of geometry in the high school. It is recommended that this course either precede or accompany practice teaching in geometry. (See note following course 209.)

209. The Teaching of Algebra. 2 term hours. Mr. Cain.

The aim of this course is to give the prospective teacher the best educational thought with reference to the content and teaching of algebra in the high school. It is recommended that this course either precede or accompany practice teaching in algebra.

Note.—Courses 208 and 209 will be given at consecutive hours, making it convenient for those who desire to take both courses for four hours' credit.

315-316. History of Mathematics. 4 term hours. Prerequisite: College Algebra and Analytic Geometry. Miss Ford.

This course will combine courses 315 and 316 of the regular winter and spring terms, treating of the history of geometry, trigonometry, arithmetic, and algebra from the earliest times to the present. The material of the history of mathematics will give to the high school teacher a survey of the development of elementary mathematics. Some attention will be given to the history of the teaching of mathematics.
MODERN LANGUAGES

French

101A. Beginning French. 4 term hours. Mrs. Hockenberry.

At regular intervals, beginning work in French is offered, with the thought that it may be continued during successive summers or in residence. No credit is given for any term's work until the year's work is completed. The fundamentals of French grammar, pronunciation, and ear training will be stressed.

201A. Advanced French. 4 term hours. Prerequisite: two years of high school French or one year of college French. Mrs. Hockenberry.

The reading of texts with conversation and dictation based on them. The choice of texts and material will be adapted to the needs and advancement of the class.

German

101A. Elementary German. 4 term hours. Miss Zimmerman.

The work of this course will cover that of the first term of elementary German. It will include the study of the elements of German grammar and about 100 pages of easy German reading. The remainder of the year's work may be done by extension.

102A. Intermediate German. 4 term hours. Miss Zimmerman.

This will be a course in rapid reading of German texts and will include a review of German grammar and the study of poems and songs. The composition work will be based upon the texts read.

Spanish

101A or 101B. Elementary Spanish. 4 term hours. Miss Windsor.

The elements of grammar and pronunciation are given particular attention. The use of oral Spanish is encouraged.

Note.—Of courses 101A and 101B, the one will be given which has the larger enrollment.

102 A, B, C. Intermediate Spanish. 4 term hours. Prerequisite: 101 A, B, C, Miss Windsor.

A modern novel will be read and composition and grammar work will be based on the same.

Note.—This term's work will count for either 102A, 102B, or 102C according to the needs of the students. May be substituted for 101C with consent of the instructor.

MUSIC

104. Early Elementary Music. 4 term hours. Mrs. Britton, Mrs. Snyder.

This course gives a singing knowledge of syllables in all major and minor keys; study of song material for first three grades; treatment of monotones; experience in presentation and teaching of rote songs and introduction of notation.


Material suitable for upper grades, method of introducing part singing, and experience in unison and part singing in all major and minor keys.
106. **Rural School Music.** 4 term hours. Mrs. Snyder.

The course consists of sight reading of unison songs, introduction of part singing, theory, methods of teaching music in the rural school, organization of music work in the school and the community. The importance and value of music in the life of school and community are emphasized. Material for school singing, community singing, appreciation work, and recreational play are considered.

116A. **Voice Culture.** 2 term hours. Mr. Maybee.

Stresses the fundamental processes of breath control and tone production. Group singing for each student every day, singing of songs in small groups, and later some individual coaching.

206A. **Music Education.** (For students specializing in music.) 4 term hours. Prerequisite: Music 101 A, B, C. Mrs. Britton.

This course presents methods of teaching music in the primary grades. The work includes: the selection and singing of rote songs; a study of the child voice; the treatment of monotones; introduction of sight singing, and plans for class procedure.

206B. **Music Education.** 4 term hours. Prerequisite: Music 206A. Mrs. Britton.

This course deals with presentation of music in the intermediate grades. It involves these topics: development of independent sight singing, both syllables and words; two and three part singing; introduction of tonal and rhythmic problems found in music designed for intermediate grades. Courses in music appreciation, organization of grade school orchestras, and instrumental class work are discussed and suitable material for the work is considered.

Note.—Music Education 206A or 206B will be offered according to the demand.

206C. **Music Education.** 4 term hours. Prerequisite: Music 206 A, B or the equivalent.

The course presents methods of organizing classes and presenting school music in both junior and senior high schools. It involves: study of the changing voice; voice testing, chorus management; methods for organizing and conducting class work, glee club, chorus, and orchestra with a study of suitable material.

209A. **Harmony.** 4 term hours. Prerequisite: Music 101 A, B, C. Mr. Henderson.

This course presents sufficient material to enable a student to gain an intelligent knowledge of modern harmonic treatment. Part writing from given basses and melodies, chord and melodic progressions, etc. Students must be able to play sufficiently to render hymn tunes.

214. **Musical Appreciation.** 4 term hours. Prerequisite: Music 213. Mr. Maybee.

A study of the masterpieces is made, and appreciation work in preparation for teaching children is definitely worked out.

320A. **Musical Composition and Analysis.** 4 term hours. Prerequisite: Music 101 A, B, C, and 209 A, B, C. Mr. Henderson.

Advanced harmony and the analysis of the various musical forms; working out of original vocal and instrumental selections.
331A. **Orchestration.** 4 term hours. Prerequisite: consent of the instructor. Mr. Amos.

The orchestration of hymns, songs, and larger works. Opportunity will be provided for students to learn to tune and to study the fundamental principles of playing the various instruments of the orchestra.

**PENMANSHIP**

**Penmanship.** Non-credit course. Miss Shimmel.

A credit in penmanship is required of all candidates for normal school certificates in this State. The course aims to help the student to become a good penman, and to give him a knowledge of method and technique in penmanship. All work is explained and practiced in class. The amount of outside work required depends entirely upon the ability of the student and the degree of perfection he has previously attained. Students are urged to enroll during their first year.

**PHYSICAL EDUCATION FOR MEN**

For description of "Summer School for Athletic Coaches," see page 19.

101. **Physical Education.** One hour period four days a week.

Athletics, team games, and general recreation for physical education programs. Tennis instruction will be offered if requested.

103. **Physical Education.**

Intramural teams and County Baseball League play a regular schedule of games from 3:00 to 5:00 p.m.

118. **Baseball Technique.** 2 term hours. Mr. Martineau.

Fundamentals of batting, bunting, baserunning, position play, offensive and defensive team work, study of the rules and coaching methods.

128. **Fundamental Football.** 1 term hour. Mr. Martineau.

Fundamentals; position of each player on offense and defense, all forms of kicking, tackling, and blocking; principles of interference and carrying the ball; execution of the forward pass. A practical system of offense and defense will be taught with consideration to the conditioning and handling of a team. Lectures.

213. **Football Technique.** 1 term hour. Mr. Martineau.

Different styles of offensive and defensive play; football strategy.

215. **Basketball Technique.** 2 term hours. Mr. Read.

Fundamentals; handling of the ball; passing, goal throwing, pivots, and stops; dribbling, team play, and actual competition. Theory of coaching and study of different offensive and defensive systems taught throughout the country. A complete practical system in itself will also be taught. Lectures and floor work.
219. **Track Technique.** 2 term hours. Mr. Taylor.

Practical instruction in starting, sprinting, distance running, hurling, high and broad jumping, pole vaulting, shot putting, discus and javelin throw. Preparation of contestants for standard events; rules of competition; intensive study of physical condition, including endurance, speed and fatigue, with view to promotion, management, and officiating of games and meets. Lectures and athletic field work.

312. **Training and Massage.** 2 term hours. Mr. Taylor.

The conditioning, care, and training of athletes for athletic teams. Passive and active movements in the treatment of athletic injuries.

332. **Scoutcraft.** 2 term hours. Mr. Read.

Principles of scout work organization, equipment, rope tying, patrols, signaling, and hiking. Hikes and at least two week-end camping trips will be taken. The object of this course is to make every graduate of the department a potential scout master.

414. **Theory and Practice of Special Corrective Gymnastics.** 2 term hours. Mr. Taylor.

Langmack's football conditioning drills will be taught. The types of exercise for special groups. Flat feet, lordosis, kyphosis, and scoliosis.

**PHYSICAL EDUCATION FOR WOMEN**

Five terms of physical education are required for a life certificate. Any of the practice courses may be substituted for the first four terms. Physical Education 202 is required of all students as the last term's work. Physical education credit is given for practice courses but no term hours are allowed. Courses 101A to 105 inclusive, and 203 meet four hours a week.

Medical examination is required of each girl upon entering. No girl is excused from participation in the work through physical disability except upon agreement with the school physician and the head of the department.

Prompt enrollment and regular attendance are necessary to secure credit. A regulation gymnasium suit is required.

101A. **Physical Education.** Miss Hussey.

Elementary tactics, gymnastics, games and folk dancing.

102. **Tennis.** Miss Guiot, Miss Hussey, Miss Worner.

For beginners and advanced players.

103. **Folk Dancing.** Miss Worner.

Folk dances of various nations, clogs, and country dances.

105. **Swimming.** Miss Hussey, Miss Worner.

All swimming strokes, diving, and life saving.

107. **Basketball.** Miss Guiot.

For those wishing to play the game and for students who expect to coach.

202. **Physical Education.** Miss Guiot.

This course is required of all students and should be taken for the final term's work in physical education. Two periods of practice and one of theory. A study is made of the need of physical education. Classification is made of exercise, games, and folk dancing for the different grades.
Team Games. Miss Hussey.
A graded course in games including volleyball and baseball.

Theory of Games. 3 term hours. Miss Guiot.
A study is made of games suitable for children of various grades with progression toward major sports. Special attention is given to rules and playing technique of soccer, hockey, volleyball, basketball, and baseball. This course is not open to students not specializing in physical education except with permission of the instructor.

PHYSICS

Students preparing to teach physics in the high school must have as a minimum preparation in physics courses 201 A, B, C. Through arrangement with the department of chemistry a major may be made by taking one year of chemistry and one year of physics. It is best to defer the work in physics until the second year, or until the student has had a year of mathematics.

In courses where laboratory work is required, the student should so arrange his work that he may have two consecutive hours for each period of laboratory work.

It is desirable that students start their college physics with the course in Mechanics. Exception may be made to this requirement in the case of summer students.

166. Practical Radio. 3 term hours. Prerequisite: high school physics. Mr. Marburger.
An elementary non-mathematical course in the fundamental principles underlying radio reception and transmission. Designed to meet the needs of teachers and students preparing to teach high school physics and general science. Different types of receiving and transmitting circuits will be studied.
Classroom, 4 single periods a week; laboratory, 1 double period a week.

201A. Mechanics and Sound. 4 term hours. Prerequisite: high school physics and trigonometry. Mr. Rood.
A general college course in mechanics of solids and fluids. The last part of the term will be devoted to a study of sound. The work will consist of demonstration lectures and recitations with illustrative problems.
Classroom, 4 double periods a week; laboratory, 2 double periods a week.

201B. Magnetism and Electricity. 4 term hours. Prerequisite: Physics 201A. Mr. Marburger.
A college course in magnetism and electricity. Same general plan of presentation is used as in Physics 201A. This course, together with courses 201A and 201C, constitutes a year's work in college physics and should be elected by all students who desire to complete unit of credit either as a foundation for high school teaching or in preparation for more advanced courses in physics and engineering.
Classroom, 4 double periods a week; laboratory, 2 double periods a week.

201C. Heat and Light. 4 term hours. Prerequisite: Physics 201A. Mr. Castle.
A general course dealing with the phenomena of heat and light. This course, together with 201A and 201B, constitutes a year's work in physics and should be elected by all students who desire a complete unit in general physics as stated in the description of course 201B.
Classroom, 4 double periods a week; laboratory, 2 double periods a week.
202A. **Mechanics and Sound Problems.** 1 term hour. To accompany Physics 201A. Mr. Rood.

Students desiring the required ten hours of physics for engineering must elect this course.
One double period a week.

202B. **Electricity and Magnetism Problems.** 1 term hour. To accompany 201B. Mr. Marburger.

See description of course 202A.

202C. **Heat and Light Problems.** 1 term hour. To accompany 201B. Mr. Castle.

See description of course 202A.

210. **Astronomy.** 2 term hours. Mr. Rood.

A non-mathematical course in descriptive astronomy which will serve as an aid to students in general science and to others who wish to get an understanding of the elements of the subject. Open as an elective to students of all courses.

265. **Alternating Currents.** 2 term hours. Prerequisite: high school physics. Mr. Castle.

Designed especially for high school teachers of physics. Its aim is to make clear the distinction between alternating and direct currents and to give the student experience in handling each. It is concerned with such problems as the design and function of the transformer; the measurement of impedance and power factor; voltage and current relations in series and parallel circuits; relation between impedance, resistance, and reactance; polyphase circuits; calculation of wire sizes for various distribution systems; converters and rectifiers. The general use of alternating current makes a knowledge of this course exceedingly valuable to the high school teacher of physics.
Classroom, 4 single periods a week.

**RURAL EDUCATION**

101. **Curriculum.** 4 term hours. Miss Evans.

A discussion of modern methods in curriculum making, with special attention to the elementary school subjects; a survey of the development of these subjects, together with the objectives to be sought in each and the standardized tests used with each; a detailed study of the Michigan State Course of Study; and a brief comparative study of the Michigan State Course of Study and the courses of other states and cities.

101R. **Principles of Teaching.** 4 term hours. Prerequisite: Psychology 101. Miss Evans.

A study of the general principles of teaching, with particular application to rural school situations. Textbook discussions, supplementary reading, and observations in the Training School are required. Prerequisite to practice teaching.

201A. **Rural Education.** 4 term hours. Dr. Ellis.

Deals with the general questions of teaching, supervision, and administering rural schools. Executive facility and efficiency in the whole work of the school are the major considerations.
304. Rural Education. 2 term hours. Miss Skinner.

A seminar course for advanced students who are interested in keeping abreast of current progress in rural education. The best material in print in rural life and education will be read and discussed, and recent constructive ideas in education will be adapted to the needs of schools in small communities. One piece of research work will be required of each student. The course is designed to be of special service to those preparing for positions as county normal or helping teachers.

103. Sociology. (See description of course in Department of History and Social Science, page 59.)

SPEECH

101A. Fundamentals of Speech. 4 term hours. Miss Lindblom.

The basic course for all work in the department. A study and application of the fundamental principles underlying the use of the voice and body for effective communication. Credit will be given for this course alone, but it is strongly urged that A and B be taken as a unit.

210. Advanced Interpretive Reading. 4 term hours. Prerequisite: Speech 101 and 110 or the consent of the instructor. Miss Shaw.

Advanced work in the oral interpretation of literature, with special emphasis on character delineation.

215. Play Production. 4 term hours. Prerequisite: Speech 101 and 110 or the consent of the instructor. Miss Shaw.

Methods of staging plays, including stage settings, costume, and make-up. Plays will be presented by the class. Each student will direct at least one play.

225. Argumentation and Debate. 4 term hours. Prerequisite: Speech 101 or the consent of the instructor. Miss Lindblom.

A course designed particularly for high school debate coaches and those who expect to coach debate. In addition to a thorough study of the principles of argumentation, with practice in debating current public questions, special attention is given to the problems of coaching and judging. An intensive study will be made of the question to be used for 1927-1928 in the Michigan High School Debate League.

TRAINING SCHOOL

Teaching

The Normal Training School will be open from 8:00 to 11:00 daily in grades one to six for the six weeks of the Summer session. Regular grade and special supervisors will have charge of the work. Opportunity for observation and a limited amount of practice teaching is afforded.

Pupil enrollment is by application. Children of students attending the Summer session are among those accepted. The work is designed to furnish profitable experience for the children rather than the making up of grades for those who have failed of promotion.

Students enroll for teaching in the Training School Office at the time regularly scheduled for enrollment, at which time assignment will be made to a definite grade and Supervisor. Students report to Supervisors for further instructions at hours later posted on the bulletin board outside the Training School Office.
Class meetings with the Supervisors are held Mondays, Tuesdays, Thursdays, and Fridays, 11:00 to 11:50. Meetings with the Director are held Wednesdays 11:00 to 11:50. The hours from 9:00 to 12:00 must therefore be reserved by all students enrolling for teaching.

Students are advised not to take extra studies if enrolled in practice teaching in the Summer session.

Courses

202. Teaching. 4 term hours. Prerequisite: Psychology 101, 102, Principles of Teaching 101, and Teaching 201.

Offered in Summer term to holders of limited certificates who are completing work for the Life Certificate. Not open to students in residence on the campus during the other terms. Application must be made to the Director of the Training School well in advance of the date of enrollment.

This course includes (1) the teaching of classes (double teaching for one unit of credit) in the Training School; (2) the observation of lessons taught by Supervisors; (3) the study and measurement of children as individuals and in groups; and (4) meeting with the Supervisor of Practice Teaching, and with the Director of the Training School unless this work was taken in connection with Teaching 201. Students are urged to become as familiar as possible with the spirit and general workings of the Training School.

205. Teaching. 4 term hours. Prerequisite: maturity and experience. Offered Summer session only. Miss Steele and Grade and Special Supervisors.

A course in observation and discussion designed to keep teachers of experience in touch with the best present-day practice. Demonstration rooms are conducted, one each, in primary, intermediate, and upper grades. The aim is to present progressive methods of education under modern conditions. Meetings are held for discussion of the work observed and for presentation of underlying theory, Mondays, Tuesdays, Thursdays, and Fridays, 11:00-11:50. Meetings with the Director are held Wednesdays 11:00-11:50. The hours from 9:00-12:00 must therefore be reserved for this course.