1928

Western State Teachers College Bulletin: Summer 1928

Western Michigan University

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Western State Teachers College
KALAMAZOO, MICHIGAN

BULLETIN

1928 SUMMER SESSION
MONDAY, JUNE 25 TO FRIDAY, AUGUST 3

This Institution is a Member of the American Association of Teachers Colleges. It is fully accredited as a College by the North Central Association of Secondary Schools and Colleges.
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PROGRAM OF SUMMER SESSION EVENTS—1928

First Week (June 25-June 30)

Monday, June 25......Registration.
Tuesday, June 26.....9 a. m. General Assembly. Address, President Waldo.
       3 p. m. Matinee Tour*—Kalamazoo—Loose Leaf Division of the Remington Rand Inc.
Wednesday, June 27.3 p. m. Room 200, Library, Departmental Talk—Famous Presidential Nominating Conventions, Dr. J. O. Knauss.
       3-5 p. m. Women’s League Room. Open House Tea.
       6 p. m. Sunset Supper and Hike, Kleinstück Reserve.
       8 p. m. Feature Entertainment—De Luxe Entertainers.

Thursday, June 28...3 p. m. Room 200, Library, Travel Talk—Customs in France, Holland and Belgium, Miss Marion Tamin.
       3 p. m. Matinee Tour*—Consumers Power Co.
Friday, June 29.....8 p. m. Faculty Reception to Students.
Saturday, June 30....7 a. m. Week-end Excursion**—Grand Rapids.
       8 a. m. Week-end Excursion**—Battle Creek.

Second Week (July 2-July 7)

Monday, July 2.......3 p. m. Room 200, Library. Departmental Talk—Literary Experiences, Mr. George Sprau.
Tuesday, July 3.....10 a. m. General Assembly—Program of Music.
       3 p. m. Matinee Tour*—Kalamazoo Stationery.
Wednesday, July 4...Holiday.
Thursday, July 5....3 p. m. Room 111 Science Building, Travel Talk—Teacher Training in England, Miss Jane Blackburn.
       3 p. m. Matinee Tour*—Kalamazoo State Hospital.
Saturday, July 7.....6:30 a. m. Week-end Excursion**—Ionia.

Third Week (July 9-July 14)

Monday, July 9.......3 p. m. Room 200, Library, Departmental Talk—Anniversaries and Anticipations in Rural Education, Dr. E. Burnham.
Tuesday, July 10...9 a. m. General Assembly—Address, President W. P. Dearing, Oakland City College, Oakland City, Indiana.
       3 p.m. High School Assembly Room—Address.—So This is Education! Registrar John C. Hoekje.
       3 p. m. Matinee Tour*—Nazareth Convent and Barbou Hall.

Wednesday, July 11..6 a. m. Sunrise Hike and Breakfast.
       3 p. m. Room 205 Science Building, Travel Talk, A Summer in Panama, Dr. L. A Kenoyer.
       3-5 p. m. Women’s League Room. Open House Tea.
       8 p. m. Feature Entertainment—Chimes of Brittany.
Thursday, July 12...3 p.m. Room 200, Library, Departmental Talk—Calendars and Calendar Reforms, Mr. Harold Blair.
       1 p. m. Matinee Tour*—Sutherland Paper Co.
Friday, July 13.....8 p. m. Student Party.
Saturday, July 14....6:30 a. m. Week-end Excursion**—Lansing.
       6:30 a. m. Week-end Excursion**—South Bend.

Fourth Week (July 16-July 21)

Monday, July 16.....3 p. m. High School Assembly Room, Lecture—Rambles in the South Land, President Waldo.
       8 p. m. Feature Entertainment—Play.
Tuesday, July 17...10 a.m. General Assembly—Program of Music.
3 p.m. Room 301, Science Building, Departmental Talk—Some Recent Theories Concerning the Stars, Mr. John Fox.
3 p.m. Matinee Tour*—New Borgess Hospital.

Wednesday, July 18...3-5 p.m. Women's League Club Room. Open House Tea.

Thursday, July 19...3 p.m. Room 200, Library, Departmental Talk—The Place of Physical Education in the Public Schools, Dr. Carl Schott.
3 p.m. Matinee Tour*—Kalamazoo Pant Co.

Saturday, July 21...Week-end Excursion**—Chicago.

**Fifth Week (July 23-July 28)**

Monday, July 23...8 p.m. Feature Entertainment—The Arcadian Novelty Company.

Tuesday, July 24...9 a.m. Lecture (Speaker to be announced).
3 p.m. Room 105 Science Building. Departmental Talk—Some Problems of Our Neighbor Across the Rio Grande—Mexico, Miss Lucia Harrison.
3 p.m. Matinee Tour*—Crescent Engraving Company.

Wednesday, July 25...3 p.m. High School Assembly Room. Lecture—Journeys in Character, Dean Ray C. Pellett.
6 p.m. Annual Picnic—White's Lake.

Thursday, July 26...3 p.m., Room 111 Science Building, Travel Talk—Progressive Education in Europe, Miss Verle Coppens.
3 p.m. Matinee Tour*—Clarage Fan Co.

Saturday, July 28...7 a.m. Week-end Excursion**—The Dune Country around Saugatuck.

**Sixth Week (July 30-August 3)**

Monday, July 30...3 p.m. Room 313 Science Building—Departmental Talk—Chemistry and Life, Dr. William McCracken.
8 p.m. Feature Entertainment—Play.

Tuesday, July 31...10 a.m. Commencement Exercises.
3 p.m. Matinee Tour*—Kalamazoo State Hospital.

*Notes on Matinee Tours:
1. All tours will be “personally conducted.” 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 busses at nominal cost.

**Notes on Week-end Excursions:
1. Each week-end excursion will be “personally conducted”, 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.
CALENDAR ANNOUNCEMENTS FOR 1928-1929

1928
Summer Session
Monday, June 25..........................Registration of Students
Tuesday, June 26..........................Recitations Begin
Friday Noon, August 3.....................Summer Session Ends

Fall Term
Saturday, September 22 to Wednesday, September 26........Freshman Days
Tuesday, September 25........................Registration of Freshmen
Wednesday, September 26..................Registration of Upper Classmen
Thursday, September 27........................Recitations Begin
Wednesday Noon, December 19......................Fall Term Ends

1929
Winter Term
Wednesday, January 2........................Registration of Students
Thursday, January 3..........................Recitations Begin
Friday Noon, March 22........................Winter Term Ends

Spring Term
Monday, April 1................................Registration of Students
Tuesday, April 2..........................Recitations Begin
Thursday noon, June 13........................Spring Term Ends
Thursday, June 13—Monday, June 17.Twenty-fifth Anniversary Celebration
Saturday, June 15.............................Alumni Day
Sunday, June 16.................................Baccalaureate Address
Monday, June 17...............................Commencement

Summer Session
Monday, June 24..........................Registration of Students
Tuesday, June 25..........................Recitations Begin
Friday Noon, August 2.....................Summer Session Ends
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THE HON. A. M. FREELAND ...................................................... President
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A.B., Western State Teachers College; University of Michigan.

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

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

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**WILLIAM R. BROWN, Ph.D.**
A.B., University of Texas; A.M., Ph.D., Harvard University.

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A.B., Western State Teachers College; University of Chicago.

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The University of Chicago.
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A.B., A.M., University of Michigan.
LOUISE J. WALKER, A.M.
A.B., Albion College; A.M., Teachers College, Columbia University.

The Department of Geography and Geology

LESLIE H. WOOD, A.M.
A.B., University of Michigan; A.M., The University of Chicago.
LENA SEAS, S.B. (Battle Creek Public Schools)
S.B., The University of Chicago.
LUCIA HARRISON S.M.
A.B., University of Michigan; S.M., The University of Chicago.
BELLE STRUNK, S.B.
S.B., The University of Chicago.

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SMITH BURNHAM, A.M.
A.B., A.M., Albion College.
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A.B., Kalamazoo College; Ph.D., University of Michigan.
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A.B., A.M., University of Michigan.
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A.B., College of Emporia; A.M., University of Chicago.

The Department of Home Economics

MARY A. MOORE
Teachers College, Columbia University.
CORR M. WALKER, A.M.
B.S., College of Industrial Arts, Denton, Texas; A.M., Teachers College, Columbia University.
FRANCES E. WALTON, A.M.
A.B., University of Omaha; A.M., Teachers College, Columbia University.
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M. AMELIA HOCKENBERRY, A.B.
A.B., Wellesley College; Bordeaux University; French Summer School, Middlebury, Vermont.

Z. EILENE LAMB, A.M.
A.B., University of Michigan; A.M., Teachers College, Columbia University.

MARIE MATHILDE STECKELBERG, A.M.
A.B., University of Nebraska; A.M., Teachers College, Columbia University.

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

The Department of Manual Arts

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

FRED S. HUFF
A.B., Western State Teachers College; University of Michigan.

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

ELMER C. WEAVER
Western State Teachers College; Teachers College, Columbia University.

EDWARD R. WOODS, B.S.
B.S., Western State Teachers College.

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

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

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

J. LEE HART, A.B.
A.B., Western State Teachers College.

BEATRICE SHAUNDING, A.B.
A.B., Western State Teachers College.

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
Northwestern State Normal School, Oklahoma; Bethany Conservatory of Music; Chicago Musical College; Wichita Conservatory of Music.

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

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

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

The Department of Penmanship

ETHEL SHIMMEL
Western State Teachers College.
The Department of Physical Education for Men

CARL P. SCHOTT, A.M.
B.S. A.M., Columbia University.

JUDSON A. HYAMES, A.B.
A.B., Western State Teachers College, University of Michigan.

LLOYD MEREDITH JONES, A.M.
A.B., University of Wichita; A.M., Teachers College, Columbia University.

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A.B., Western State Teachers College

HERBERT W. READ, A.B.
A.B., Western State Teachers College.

The Department of Physical Education for Women

MARY BOTTJE, A.B.
A.B., Western State Teachers College.

ISABEL CRANE, B.S.
Michigan State Normal College; B.S., Battle Creek College.

EDITH MULLEN, B.S.
B.S., Teachers College, Columbia University.

MARIAN A. SPALDING, A.B.
A.B., Western State Teachers College; Teachers College, Columbia University.

DOROTHY VESTAL, B.S.
Sargent School of Physical Education; B.S., University of Michigan.

The Department of Physics

JOHN E. FOX, A.M.
A.B., The University of Chicago; A.M., University of Pennsylvania.

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

The Department of Rural Education

WILLIAM MCKINLEY ROBINSON, A.M.
A.M., Teachers College, Columbia University.

ERNEST BURNHAM, Ph.D.
Ph.B., A.M., Albion College; Ph.D., Columbia University.

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

The Department of Speech

CARROLL P. LAHM, A.B.
A.B., Oberlin College; University of Wisconsin; Northwestern University.

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

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   Western State Teachers College; Applied Art School, Chicago.
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   G.M., Northwestern University.
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   B.S., Western State Teachers College.

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   A.B., Western State Teachers College.
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MARY A. HARVEY, Orders and Accessions.
   Michigan Female Seminary.
PHOEBE LUMAREE, A.B., Cataloguer.
   A.B., Western State Teachers College; B.S., Simmons College, School of Library Science.
PAUL RANDALL, A.B., Circulation.
   A.B., Western State Teachers College; B.S., in Library Science University of Illinois Library School.
STANLEY TANNER, A.B., Circulation.
   A.B., University of Michigan.
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Cornelius Macdonald ........................................................ Receiving Clerk
Alice Haefner ................................................................. Records Office
Ardell Olds ................................................................. Appointment Office
Lucille Sanders ............................................................. Clerk, Rural Department
Alice Smith ................................................................. Clerk, Training School
Gretchen Switzer ............................................................ Appointment Secretary
Leah Smith ................................................................. Extension Secretary
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Margaret Feather ............................................................ Clerk, Dean of Men
Sara E. Ackley ............................................................ Manager, Co-operative Store
Blanche Draper ............................................................ Editor, Teachers College Herald
COMMITTEES OF THE FACULTY

1928 Summer Session

1. Appointment

Ellsworth, Brown, Davis, Evans, Hockje, Mason, Pellett, Spindler.

2. Assembly Programs

Spindler, Amos, Hockje, Shaw.

3. Athletic Board

Hockje, McCracken, Schott.

4. Bulletins

Hockje, Harrison, Sangren.

5. Curricula

Sprau, Ellsworth, Harrison, Knauss, Pellett, Spindler.

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<th>Freshmen</th>
<th>Upper Classmen</th>
</tr>
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<tbody>
<tr>
<td>A. B. Degree</td>
<td>Harrison</td>
<td>Sprau</td>
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<tr>
<td>B. S. Degree</td>
<td>Harrison</td>
<td>Blair</td>
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<td>Art</td>
<td>Siedeslag</td>
<td>Siedeslag</td>
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<td>Commerce</td>
<td>Watson</td>
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<td>County Renewal</td>
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<td>Three Year Certificate</td>
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<td>Unclassified</td>
<td>Bartoo</td>
<td>Bartoo</td>
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</table>

7. Curricula Enrollers

A. B. Degree—Harrison, Sprau.
B. S. Degree—Harrison, Blair.
Art—Siedeslag, Anderson.
Commerce—Watson.
County Certificates (1 yr. Curriculum)—Evans
County Renewals—E. Burnham.
Early Elementary—Campbell, Coppens.
Home Economics—Schumacher, Moore.
Junior High School—Master, Heathcote, Steinway, Wilds.
Later Elementary—Spindler, Halmon, Powell, Strunk.
Limited—Evans.
Music—Maybee, Henderson.
Phys. Ed. for Men—Schott, Hyames, Read.
Phys. Ed. for Women—Spalding, Bottle, Mullen.
Rural Education—Robinson, E. Burnham.
Senior High—Zimmerman, Fox, Brown.
Unclassified—Bartoo, Ellis.

8. Extra Studies and Scholarship

Hockje, Davis, Pellett.

9. Friendship

Mason, Zimmerman.

10. General Advisory Committee

McCracken, S. Burnham

11. Health

E. Walker, Davis, Goddard, Pellett

12. Social Life

Davis, Mason, Heathcote, M. Moore, Pellett, Read, Rood, Spindler

13. Student Association Advisory Board

Brown, Hockje, Lahman, Spindler

14. Student Organizations

Y. M. C. A.—Ackley, Hyames.
Y. W. C. A.—Spindler, Hockenberry.

N. B.—In each case the person whose name appears first is the chairman of the committee.
THE TWENTY FIFTH SUMMER SESSION
of
Western State Teachers College

PURPOSE

Through its Summer session, Western State Teachers College 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 a 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 larger 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 Teachers College in 1904. In the summer of 1927, 1,674 students of collegiate rank were enrolled; 112 Life Certificates and 60 Limited Certificates were granted, and 35 degrees conferred. The steady growth in attendance indicates that these sessions have been found of distinct service to prospective and experienced teachers.

The twenty-fifth Summer session will open June 25 and continue until August 3. Students will be enrolled and classified on Monday, June 25. Instruction will begin in all classes on Tuesday, June 26. Nearly 200 courses will be available, and a teaching staff of some 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 Teachers College 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 trunk lines, U. S. 12, U. S. 131, 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 College is one of unusual beauty. Five of the buildings stand upon a 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 northeasteasterward,
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, swim-
mimg, and boating being popular pastimes. Students are given free in-
struction 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 Teachers College 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 advance-
ment, 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.

HEALTH SERVICE
Physical examinations are conducted by the staffs of the departments
of physical education, a medical staff which consists of local physicians
who are in attendance at the college at certain times, a 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 are rendered in pro-
portion as the college is equipped to dispense such service. 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 Health Service promptly in order that diagnosis of incipient dis-
eses may be made as soon as possible. The offices are in the north base-
ment of the Science Building.
STUDENT ADVISORY SYSTEM

Experience has demonstrated that college students, especially beginners, need to be advised. During the past year Western State Teachers College has taken rank among the leaders in this type of activity. Immediately upon registration each freshman is assigned to a Faculty Advisor with whom he consults relative to the details of the curriculum he wishes to pursue, sequence of studies, etc., etc. The advisor plans with him his daily program for the following term. Being advised is required of all freshmen. With upper classmen being advised is optional, though opportunity for it is provided and students are strongly urged to avail themselves of this service.

IDENTIFICATION PHOTOS

When a student enrolls for the first time he is required to have taken an identification photo. One copy of the photo becomes part of the student's permanent record, another copy is given to the student to serve to identify him at college functions, while a third copy is filed in the Dean's Office. The charge for the photos is 25c.

THE APPOINTMENT BUREAU

The Appointment Bureau aids graduating students of the Teachers College 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 out 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 Appointment Bureau.

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 8:30 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.
OCCUPATION, EXTENSION, BUILDINGS

REMUNERATIVE OCCUPATION

Kalamazoo offers opportunities for students who wish to support themselves in part during residence in the College. 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. 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 College 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.

EXTENSION DEPARTMENT

Through the Extension Department the Western State Teachers College 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.

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

BUILDINGS AND MATERIAL EQUIPMENT

There are eight modern building, 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 or 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 Teachers College 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 College 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 Campus Training School includes a kindergarten, a room each for grades one to eight, special classrooms, 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 college 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 Agriculture has a very unusual opportunity to do the work described in the department courses of study. A one hundred acre farm of fertile silt loam is being handled as a demonstration project. A pure bred herd of Guernsey cattle is being grown, feeder cattle are being kept, pure seed is grown, a fine flock of laying hens is housed in a modern poultry house and fertilizer results will be available. A young orchard of good varieties of fruit is available for observation. Alfalfa fields, cover crop demonstrations and modern machinery are maintained.

The farm is operated on a business basis with the principle of economic production directing rather than the principle of experimentation.

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.
BUILDINGS

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. 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 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 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
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 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.

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 State Teachers College 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 page 77.

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. However, realizing that probably for several years there will be sufficient demand in rural elementary school positions for students completing two years of preparation, the two-year rural elementary curriculum has been retained.

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 Teachers College 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.

CONFERENCE OF COUNTY COMMISSIONERS

Commissioners of schools of the co-operating counties are invited to be at the Teachers College 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.

REQUIRED PROFESSIONAL TRAINING

The Western State Teachers College 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. 16 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 Teacher Training Law**

The law provides, except as given under "a" and "b" below, that after September 1, 1925, to receive a county certificate a person must have had at least one year of professional training beyond the completion of an approved four year high school course.

a. Any teacher who can furnish proof of having taught five years previous to the taking effect of the law in August, 1921, the last three years of which were continuous, shall have a renewal of a certificate without doing the professional training, if such teacher has been continuously and successfully teaching since the last certificate was received and has the average standing mentioned in the next paragraph.

b. 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 or a second grade certificate renewed by completing twelve weeks of professional work amounting to sixteen term hours' credit, or may have a first grade certificate renewed by completing eighteen weeks of professional training amounting to twenty-four term hours' credit. Not more than three third grade certificates may be issued to any person.

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 under the guidance of his advisor may qualify for one of the following certificates which is issued by the county board of school examiners in the county in which the student desires to teach. The college will issue the student a copy of his credits. This must be presented to the county board, through its secretary, the county commissioner of schools, before one of its regular meetings either in April or August.

**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.

**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 52.

SPECIAL FEATURES

LECTURES, ENTERTAINMENTS, EXCURSIONS, CONFERENCES

Five evening entertainments 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 near the close of the term, an all school picnic are social features of former Summer sessions to be repeated in 1928. Announcement of each event will be made in the Teachers College Herald.

BUREAU OF EDUCATIONAL MEASUREMENT AND RESEARCH

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

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

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

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 57-59. Various departments offer courses dealing with the teaching of their particular subject.

PHYSICAL EDUCATION AND ATHLETICS

Every student is required to participate in some form of physical education, approved by the department of physical education, which is in keeping with the condition and physical needs of the individual. It is
hoped that as a result right habits and attitudes of recreation will be developed and learned which will be followed after college days are over. A medical and physical examination is required of all incoming new students. This automatically divides the students into two classes; the physically normal and the physically sub-normal. The physically normal will follow the regular physical education activity program, while the physically sub-normal will engage in a prescribed corrective and recreational program approved by the physician.

Intra-mural sports constitute a definite part of the physical education program. The following activities are included: for men, basketball, tennis, handball, horse-shoe pitching, archery, volley ball, indoor baseball, outdoor baseball, track, and cross country; for women, hockey, soccer, basketball, indoor baseball, archery, golf, tennis, track, swimming, skiing, and hiking.

Western has been unusually successful in all phases of inter-collegiate athletics. The following sports are recognized as belonging to this group: football, baseball, basketball, indoor and outdoor track, cross country, tennis, golf, wrestling, and boxing.

This college is a member of the Michigan Collegiate Conference which promotes intercollegiate athletics among its members and requires, among other things, that its members enforce the one-year residence rule, a high standard of scholarship, and emphasizes those qualities which make for the finest and best in athletics.

Western has excellent physical education facilities: two large gymnasiums, a swimming pool, several tennis courts, a newly regraded gridiron covered with a splendid turf, a baseball field, a quarter-mile cinder running track, and other play fields for the use of soccer, hockey, speedball, and baseball.

The department offers three and four year specialized courses in physical education.

SCHOOL FOR ATHLETIC COACHES

The Department of Physical Education 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 intra-mural 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.

THE W CLUB

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

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

BIOLOGICAL FIELD TRIP

Just after the close of the summer session, for a period of about four weeks, Dr. Kenoyer will conduct a field class in biology, touring by auto, with Rocky Mountain National Park as its destination. Emphasis will be placed on the botanical formations of the regions visited. Further details of this course are given on page 54.

THE CO-OPERATIVE STORE

The Co-operative Store, which was organized at the opening of the summer session of 1912, has had a most satisfactory and interesting development. It not only serves as a convenience to people on the campus, but also furnishes employment for a number of worthy students. Service is the keynote of the store and every effort is put forth to keep the necessary supplies on hand for regular class work, thereby saving students much time each day for the purpose of study.

CONDITIONS OF ADMISSION

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

ENTRANCE TESTS

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

ENTRANCE REQUIREMENTS

Admission on Certificate
(Effective Sept. 1, 1928)

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

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

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

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15
ENTRANCE REQUIREMENTS

List A

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
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<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>German</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>Economics</td>
<td>1½ unit</td>
</tr>
<tr>
<td>Algebra</td>
<td>1, 1½ or 2 units</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Geometry</td>
<td>1 or 1½ units</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>½ unit</td>
</tr>
<tr>
<td>Physics</td>
<td>1 unit</td>
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<tr>
<td>Chemistry</td>
<td>1 unit</td>
</tr>
<tr>
<td>Botany</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Zoology</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Physiology</td>
<td>½ unit</td>
</tr>
<tr>
<td>Physiography</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Geology</td>
<td>½ unit</td>
</tr>
</tbody>
</table>

List B

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

Note:

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

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

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

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

Provisional Admission

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

Admission by Examination

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

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

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 State Teachers College 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 $6.75 is collected for the support of athletics, student activities, health service, library purposes, and subscription to the Teachers College Herald, the official weekly student publication.

A student for whom no Identification Photo is on file pays an additional 25c.

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, all students who enroll late will be charged an additional fee of $2.00. 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.
EXPENSES, REGISTRATION

The Cafeteria

The Teachers College 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:

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room (one-half of a double room)</td>
<td>$15.00 to $18.00</td>
</tr>
<tr>
<td>Board</td>
<td>$30.00 to $36.00</td>
</tr>
<tr>
<td>Laundry</td>
<td>0.00 to 5.00</td>
</tr>
<tr>
<td>Textbooks and supplies</td>
<td>8.00 to 12.00</td>
</tr>
<tr>
<td>Incidentals</td>
<td>8.00 to 12.00</td>
</tr>
<tr>
<td>Tuition and fees</td>
<td>9.75</td>
</tr>
</tbody>
</table>

Total for 6 weeks: $70.75 to $92.75

ROUTINE OF REGISTRATION, CREDITS, ETC.

GENERAL INSTRUCTIONS FOR ENROLLMENT

Registration for the Summer session occurs on Monday, June 25. 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 CI 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. 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 be-
cause 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 but 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 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. It'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.

DEGREES AND CERTIFICATES

Although a student may enter Western State Teachers College before he is eighteen years of age, 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 degrees and certificates must be filed with the Registrar early in the term in which it is desired that they be granted.

The State Board of Education for the State of Michigan, through Western State Teachers College, confers degrees and grants teachers certificates as follows:

1. The Degree of Bachelor of Arts.
The Degree of Bachelor of Science.


3. The Five Year Certificate, valid for five years in the Public Schools of Michigan (See Note 1).
4. The Three Year Certificate, valid for three years in the Public Schools of Michigan.

ACADEMIC AND RESIDENCE REQUIREMENTS

1. For the Bachelors Degree the candidate shall—
   a. present credits satisfying a prescribed curriculum and aggregating 192 term hours or four years;
   b. have satisfactorily completed in residence at this institution at least 48 term hours;
   c. have been in residence at this institution the term immediately preceding graduation;
   d. satisfy the requirements for the life certificate.

2. For the Life Certificate the candidate shall—
   a. present credits satisfying a prescribed curriculum and aggregating 144 term hours or three years;
   b. have satisfactorily completed in residence at this institution at least 48 term hours;
   c. have been in residence at this institution the term immediately preceding graduation.

3. For the Five Year Certificates (See Note 1) the candidate shall—
   a. present credits satisfying a prescribed curriculum and aggregating 96 term hours or two years;
   b. have satisfactorily completed in residence at this institution at least 32 term hours; (See Note 2.)
   c. have been in residence at this institution the term immediately preceding graduation.

4. For the Three Year Certificate the candidate shall—
   a. present credits satisfying a prescribed curriculum and aggregating 56 term hours or one year and one summer term;
   b. have satisfactorily completed in residence at this institution at least 32 term hours; (See Note 3.)
   c. have been in residence at this institution the term immediately preceding graduation.

Note.—1. The Five Year Certificate may be extended for one period of three years provided the holder shall
   (a) make application to the college for such extension before the expiration of the certificate;
   (b) submit satisfactory evidence that he has taught successfully during the life of the certificate for not less than three years;
   (c) submit evidence that he has during the life of the certificate completed work aggregating not less than 16 term hours of acceptable credit.

Note.—2. (a) If the candidate for the five year certificate shall have entered from a Michigan State Teachers College or from the Detroit Teachers College with at least 16 term hours of acceptable residence credit there earned, 16 term hours shall satisfy the residence requirement at this institution.
   (b) If the candidate for the five year certificate shall have entered as a graduate from a Michigan County Normal School he shall complete in residence at this institution 48 term hours.
Note.—3 (a) If a candidate for the Three Year certificate shall have entered from a Michigan State Teachers College or from the Detroit Teachers College, with at least 16 term hours of acceptable residence credit there earned, 16 term hours shall satisfy the residence requirement at this institution.

(b) If a candidate for the three year certificate shall have entered as a graduate from a Michigan County Normal School he shall complete in residence at this institution 24 term hours.

Note.—4. A candidate presenting credits as a graduate of a Michigan County Normal School and who in addition thereto presents entrance credits satisfying the requirements of this institution shall be granted—

1. For the Life Certificate, 40 term hours;
2. For the Five Year Certificate, 40 term hours;
3. For the Three Year Certificate, 32 term hours.

Note.—5. Not more than one-fourth of the number of hours necessary for any certificate or degree may be taken in extension or by correspondence. Such credit, however, cannot be applied to modify the minimum or final residence requirements.

CREDIT RELATIONS WITH COLLEGES AND UNIVERSITIES

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

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

THE CURRICULA

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

Specific details of the curricula for the various degrees conferred and certificates granted by Western State Teachers College appear in this publication as follows:

1. Curricula four-years in length leading to the Degree of—
   Bachelor of Arts 32, 45
   Bachelor of Science 33 and 34, 45
2. Curricula three-years in length leading to a Life Certificate in—
   Art 35
   Art and Music 36
   Commerce 37
   Early Elementary 38
   Home Economics 39
   Junior High School 40
   Later Elementary 41
   Manual Arts 42
   Music 43
   Music and Art 36
   Physical Education for Men 44
   Physical Education for Women 46
   Rural Elementary 47
   Rural High School 49
   Senior High School 50

3. Curricula two-years in length leading to the five year certificate in—
   Early Elementary 38
   Junior High School 40
   Later Elementary 41
   Rural Elementary 48
   Rural High School 49
   Senior High School 50

4. Curriculum one year and one summer term in length leading to the three-year certificate—
   Three-Year Certificate Curriculum 51

5. Curriculum one year in length meeting state professional requirements—
   One Year Professional Training Curriculum 52
   To study in detail the requirements in professional training for teachers in the State of Michigan and the conditions under which the student may receive a certificate after having completed the curriculum outlined the reader is referred to pages 20-22 of this publication.
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 Teachers Colleges of the State to formulate a four-year curriculum leading to the Bachelor's degree. The curriculum leads to a Life Certificate and the degree of Bachelor of Arts.

The four-year curriculum will in no way interfere with the curricula already in force in the Western State Teachers College, 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.

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

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 the Entrance Requirements. 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 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, Sociology, Philosophy .........................20 term hours
Group 3   Biology, Chemistry, Geography, Geology, Physics, Mathematics, Astronomy................24 term hours
Group 4   Ancient Languages, Modern Languages, English Language and Literature...............24 term hours

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

1. Courses must be elected so that the requirements in some one of the Life Certificate curricula are fully satisfied.
2. Not more than 64 term hours may be taken in any one department.
3. Courses counted in Group 1 cannot be counted in Group 4.
4. Not more than a total of 64 term hours may be counted from any or all of 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. No candidate will be recommended for the A. B. degree who has spent less than one year at the Western State Teachers College 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

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 Entrance Requirements. 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.

Credits counted toward a degree must be earned in the courses generally recognized as of college grade. 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 Teachers College and who has not been in residence during the term next preceding the time of his graduation.

Minimum term hours required—192.
THE CURRICULA

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:
   - 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 313 .......................................................... 4 term hours

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

8. Required of all students in addition:
   - Library Methods.
   - Physical Education:
     - For men—five terms.
     - For women—five terms.

Minimum term hours required—144.

Note.—1. The department reserves the right to take creditable work
       from the students for the 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
   fulfillment of the requirements of Groups 3, 4, 5, and 7.
4. If it is desired that the work of this curriculum count as three
   years toward a degree, elections must be made in conformity
   with the requirements of a degree curriculum.
ART AND MUSIC CURRICULUM

(Three years in length)

For the Preparation of Teachers of Art and Music

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

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

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

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

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

6. Art:
   - 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. Required of all students in addition:
   - Library Methods.
   - Physical Education:
     - For men—five terms.
     - For women—five terms.

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
      fulfillment 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.
COMMERCCE CURRICULUM
(Three years in length)

For the Preparation of Teachers of Commerce

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

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

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

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

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

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

7. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms.
     - For women—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 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
(Three 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
   - Principles of Teaching 101 ......................................... 4 term hours
   - Teaching 201, 202 ...................................................... 8 term hours
   - Psychology of Reading ............................................... 4 term hours
   - Early Elementary Education .................................... 24 term hours

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

3. Literature ................................................................. 12 term hours

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

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

6. Music 104 ........................................................................ 4 term hours

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

8. At pleasure ........................................................................ 43 term hours

9. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Five terms of Physical Education.

   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.

For the Five Year Certificate students must complete the requirements outlined above excepting Group 8 and except that they will omit Teaching 202 and 8 term hours of Early Elementary Education and will elect sufficient to total 96 term hours.
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, 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 or Social Science .......................................................... 12 term hours

5. Science:
   - Chemistry 103 A, B, C and 203 A .......................................... 16 term hours
   - Biology 102 ................................................................. 4 term hours
   - Physiology 111 ............................................................... 4 term hours

6. Household Arts Design 110 and 210 ........................................... 8 term hours

7. Home Economics:
   - Introductory Home Economics 101, 102 .................................. 4 term hours
   - Clothing 103 ................................................................. 4 term hours
   - Foods 104 ................................................................. 4 term hours
   - Clothing 205 ............................................................... 4 term hours
   - Nutrition 206 .............................................................. 4 term hours
   - Home Economics Education 209 ........................................ 4 term hours
   - Millinery 305 .............................................................. 4 term hours
   - Household Management 306 ............................................. 4 term hours
   - Foods 312 ................................................................. 4 term hours
   - Home Nursing and Child Care 315 .................................... 4 term hours

8. At pleasure .............................................................................. 19 term hours

9. Required of all students in addition:
   - Library Methods.
   - Five terms of Physical Education.

Minimum term hours required—144.
JUNIOR HIGH SCHOOL CURRICULUM

(Three 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 27 to 36 term hours, including 4 term hours of teaching in that subject.

4. One minor sequence, consisting of 18 to 24 term hours, in another subject, including 4 term hours of teaching.

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

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

7. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms.
     - For women—five terms, including course 202.

Minimum term hours required—144.

Note.—1. A sequence consists of two or more 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. Majors and minors may be counted only in Literature, Mathematics, History, Geography, and General Science.

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, science (enumerated above).
   - Geography, history, other sciences (enumerated above).
   - Music and any two of the subjects.

Students completing two years of work (96 term hours) of this curriculum, under the guidance of their advisor, may qualify for the Five Year Certificate. These students will omit Teaching 202.
LATER ELEMENTARY CURRICULUM
(Three 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
   - Psychology of Reading ................................................. 4 term hours
   - Teaching 201, 202 ............................................................ 8 term hours

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

3. Literature ........................................................................ 12 term hours

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

5. Science and Mathematics:
   - Arithmetic 101 ................................................................. 4 term hours
   - Geography .................................................................... 12 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 ......................................................................... 59 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. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Five terms of Physical Education which must include course 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, and 8.

For the Five Year Certificate students must complete the requirements outlined above excepting Group 8 and except that they will omit Teaching 202 and will elect sufficient to total 96 term hours.
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. Required of all students in addition:
   - Library Methods.
   - Five terms of Physical Education.

Minimum term hours required—144.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 5, 7.
2. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
3. Students who enter without high school physics must elect Physics 100 A, B, C.
4. Those who elect a year of either college physics or mathematics may substitute another subject for Applied Mathematics 112.
5. Woodshop 99 and Mechanical Drawing 99 are required of all students who have not had similar work in high schools.
6. 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. Required of all students in addition:
   - Library Methods.
   - Physical Education:
     - For men—five terms.
     - For women—five terms.

Minimum term hours required—144.

Note.---1. Vocal or instrumental ensemble is 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

<table>
<thead>
<tr>
<th>Group</th>
<th>Courses</th>
<th>Term Hours</th>
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<tbody>
<tr>
<td>1.</td>
<td>Psychology and Education:</td>
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<tr>
<td></td>
<td>Introductory Psychology 101</td>
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<td></td>
<td>Educational Psychology 102</td>
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<tr>
<td></td>
<td>Principles of Teaching 101</td>
<td>4</td>
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<td></td>
<td>Teaching 302 A, B, C</td>
<td>12</td>
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<td>2.</td>
<td>Rhetoric 104 A, B, C</td>
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<tr>
<td>3.</td>
<td>Foreign Languages, Speech, and English in addition to Group 2</td>
<td>12</td>
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<tr>
<td>4.</td>
<td>History or Sociology</td>
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<tr>
<td>5.</td>
<td>Science:</td>
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<td></td>
<td>General Biology 103 A, B</td>
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<tr>
<td></td>
<td>Hygiene 312</td>
<td>4</td>
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<tr>
<td></td>
<td>Anatomy 211 A, B</td>
<td>8</td>
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<tr>
<td></td>
<td>Physiology 111</td>
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<td>6.</td>
<td>Physical Education:</td>
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<td></td>
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<td>Fundamentals of Physical Education 201 A, B</td>
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<td>First Aid and Massage 212</td>
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<tr>
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<td>Swimming 227</td>
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<tr>
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<td>Principles and Technique of Gymnastic Teaching 301</td>
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<td></td>
<td>Theory and Practice of Individual Gymnastics 302</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Football Technique 313</td>
<td>3</td>
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<td></td>
<td>Basketball Technique 315</td>
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<td></td>
<td>Baseball Technique 317</td>
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<td>Track and Field 319</td>
<td>3</td>
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<td>Camping and Scouting 332</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Playground and Community Recreation 336</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Psychology of Coaching 305</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Organization and Administration of Physical Education 304</td>
<td>4</td>
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<tr>
<td>7.</td>
<td>At pleasure</td>
<td>13</td>
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<tr>
<td>8.</td>
<td>Required of all students in addition:</td>
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<tr>
<td></td>
<td>Library Methods.</td>
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<tr>
<td></td>
<td>Practice courses in Physical Education 121 A, B, C, and 221 A, B, C.</td>
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</tbody>
</table>

Minimum term hours required—144.
PHYSICAL EDUCATION FOR MEN CURRICULUM
(A. B. or B. S. Degree)

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 302 A, B, C ........................................... 12 term hours
   - Educational Measurements 206 ................................ 4 term hours
   - Fundamentals of School Administration 316 ................. 4 term hours

2. Rhetoric 104 A, B, C, 323 ..................................... 13 term hours

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

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

5. Science:
   - General Biology 103 A, B ...................................... 8 term hours
   - Physiology 111 .................................................. 4 term hours
   - Anatomy 211 A, B ................................................ 8 term hours
   - Hygiene 312 ..................................................... 4 term hours

6. Physical Education:
   - Introduction to Physical Education 102 A, B, C .......... 6 term hours
   - Fundamentals of Physical Education 202 A, B ............ 4 term hours
   - First Aid and Massage 212 ..................................... 4 term hours
   - Kinesiology 220 .................................................. 4 term hours
   - Swimming 227 ................................................... 1 term hour
   - Principles and Technique of Gymnastic Teaching 301 .... 4 term hours
   - Theory and Practice of Individual Gymnastics 302 ....... 4 term hours
   - Football Technique 313 ......................................... 3 term hours
   - Basketball Technique 315 ...................................... 3 term hours
   - Physiology of Exercise 316 .................................... 4 term hours
   - Baseball Technique 317 ......................................... 3 term hours
   - Track and Field Technique 319 ................................ 3 term hours
   - Camping and Scouting 332 ...................................... 4 term hours
   - Playground and Community Recreation 336 ................. 4 term hours
   - Thesis and Seminar 401 A, B, C ............................... 6 term hours
   - Principles of Physical Education 403 ........................ 3 term hours
   - Organization and Administration of Physical Education 304 .. 4 term hours
   - Psychology of Coaching 305 .................................... 3 term hours
   - Supervision of Physical Education 406 ....................... 4 term hours

7. At pleasure ...................................................... 17 term hours
   (Not in Physical Education)

8. Required of all students in addition:
   - Library Methods.
   - Practice courses in Physical Education 121 A, B, C, and 221 A, B, C.

Minimum term hours required—192.
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. Required of all students in addition:
   - Library Methods.
   - 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 ELEMENTARY CURRICULUM
(Three years in length)

For the Preparation of Teachers of Rural Elementary Schools Leading to a Life Certificate

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

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

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

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

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

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

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

8. At pleasure ................................................... 47 term hours

9. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     For men—five terms.
     For women—five terms, including course 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.
RURAL ELEMENTARY CURRICULUM

(Two years in length)

Leading to a Five Year Certificate for Teachers of Rural Elementary Schools

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

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

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

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

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

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

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

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

9. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms.
     - For women—five terms, including course 202.

Minimum term hours required—96.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirement of Groups 3, 4.
RURAL HIGH SCHOOL CURRICULUM

(Three 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 101R ................................ 4 term hours
   - Teaching 201, 202 ............................................. 8 term hours
   - Rural Education A, B, C ................................. 12 term hours

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

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

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

5. Two sequences in addition to the requirements in Groups 3 and 4 consisting of 12 term hours each.

6. The remaining units to be taken in groups of 12 term hours each or miscellaneously with the consent of the advisor.

7. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms.
     - For women—five terms, including course 202.

Minimum term hours required—144.

Note.—1. All elections for sequences must be made with the approval of a member of the department in which the work is to be taken.

2. Sequences are available in science, mathematics, literature, history, and social science, and in agriculture, home economics, and manual arts.

3. 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.

Students completing two years of work (96 term hours) of this curriculum, under the guidance of their advisors, may qualify for the Five Year Certificate. These students will omit Teaching 202.
SENIOR HIGH SCHOOL CURRICULUM
(Three 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 36 term hours including 4 term hours of teaching.

4. A minor sequence of 18 to 24 term hours in another subject including 4 term hours of teaching.

5. A sequence, other than 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, ormiscellaneously with the consent of the advisor.

7. Required of all students in addition:
   - Library Methods.
   - Physical Education:
     - For men—five terms.
     - For women—five terms, including course 202.

Minimum term hours required—144.

Note.—1. A sequence consists of two or more 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. Majors and minors may be counted in Foreign Languages, English, History, Mathematics, Biology, Geography, Chemistry, and Physics and Speech.

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.

Students completing two years of work (96 term hours) of this curriculum, under the guidance of their advisors, may qualify for the Five Year Certificate. These students will omit Teaching 202.
THREE YEAR 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. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Three terms of Physical Education.
   - For women—must include course 202.

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 101 ........................................... 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 A ........................................... 4 term hours
- Arithmetic 101 ........................................... 4 term hours
- Grammar ........................................... 4 term hours
- Rural Sociology 103 ........................................... 4 term hours
- Nature Study 131 ........................................... 4 term hours
- Psychology 102 ........................................... 4 term hours

(c) Required of each applicant in addition:
- 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.
6. In order to obtain a certificate, after the completion of the course outlined above, the student must make application to the Commissioner of Schools of the county in which he is to teach.
COURSES OF INSTRUCTION

ART

101. Teaching of Junior High School Art. 3 term hours. Mrs. Struble.

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

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

102. Art for Teachers. 4 term hours. Miss Fenstermacher, Miss Simon, 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, Art, Art and Music, and Three-Year Certificate students.

103. Industrial Art. 4 term hours. Miss Anderson.

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.

106. Household Arts Design. 4 term hours. Miss Siedschlag.

Color, design, selection and arrangement of furnishings will be supplemented by collections of illustrative material and visits to decorators' and furniture shops.

107. Illustrative Handwork. 4 term hours. Miss Anderson.

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

Note.—Required of Early Elementary students.

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

309. Advanced Design. 4 term hours. Prerequisite: Art 102, 109, and 208. Miss Siedschlag.

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

Note.—This course is a continuation of Elementary Design 109.

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 the living world will form the basis for the work. Attention is directed both to subject matter and means of presentation.

302. Genetics. 4 term hours. Prerequisite: Biology 101 or 102 or 103, and, if possible, 301. Dr. Kenoyer.

This course considers the reasons why living things differ from one another and how these differences are transmitted from parents to offspring. Lectures, reference readings, and problems will be supplemented by some work in laboratory and field.

Anatomy and Hygiene

111. Physiology. 4 term hours. Mr. Place.

An elementary course in physiology especially designed for students majoring in physical education.

Classroom, 3 hours a week; laboratory, 2 hours a week.

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

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

Botany

221C. Field Botany. 4 term hours. Prerequisite: Biology 101 or Botany 121. Dr. Kenoyer.

Plants are considered mainly from the standpoints of ecology and taxonomy. The student learns to identify the plants of the region and through field trips becomes familiar with their habits and interrelations. One Saturday will be used for a trip to the Lake Michigan dune region.

222. Field Tour to the Rocky Mountains. 4 term hours. Prerequisite: a year's work in the biology department, including at least one term of botany. To be given during the four weeks immediately following the Summer session. Dr. Kenoyer.

A class of selected students will make an auto camping tour for study of the plant associations of the oak forest, savannah, prairie, plains, and Rocky Mountain regions. Some attention will be given also to the geology, the animal life, and the economic botanical problems of the regions visited. The principal part of the work will be done in the mountains in and near the Rocky Mountain National Park but stops will be made at several points of botanical interest en route. Tuition $10 ($11.25 if residence credit is desired). Travel, board, and tent rental not exceeding $60. Consult instructor for details.

Zoology

251. Bird and Insect Study. 4 term hours. Dr. Goddard.

Designed to offer a somewhat advanced course in the study of these two interesting and important groups of animals. Life habits, structural adaptations, life histories, natural homes, classification, and economic importance will be especially emphasized. Field excursions will be made
for identification, and study of life habits. Methods of rearing living material and of preparing museum specimens, especially in the insect study, will receive attention. Some bird banding will be attempted.

Nature Study

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

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

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

In this course several instructors, each for a period of about a week, will give instruction on these 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. Rural School Agriculture. 4 term hours. Mr. Corbus.

This course is intended for those planning to teach in rural communities although they may not teach agriculture as a separate subject. Knowledge gained in this course may be used as an environmental method of approach to other subjects to interest pupils coming from homes where agriculture supplies the cash income. It will of necessity be very general and may not even in a simple treatment cover all phases of farm life. An attempt will be made to adapt the course to the type of agriculture typical of the locality in which the majority of the class is interested. Excellent opportunity for practical observation is afforded by the college farm.

CHEMISTRY

Students preparing to teach chemistry in the high school must have as a minimum preparation in chemistry courses 101 A, B, C or 102 A, B, C. Through arrangement with the department of physics a major in physical science may be made by taking two years of chemistry and a year of physics. A minor in chemistry consists of 24 term hours and may not be made by combining chemistry and physics.
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. Chemistry and the Modern World.** 4 term hours. Dr. McCracken.

Some knowledge of chemistry is indispensable to the understanding of the world today. This course is designed for those students who have never studied chemistry and do not wish to elect a year's work in the subject, yet desire to gain an insight into the part played by chemistry in modern life and industry and some acquaintance with the general laws of chemical action and the properties of common elements and compounds.

No laboratory work.

201A. **Qualitative Analysis.** 4 term hours. Prerequisite: Chemistry 101 A, B, C, or 102 A, B, C. Mr. Eldridge.

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.

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

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

Note.—For special courses in chemistry consult the instructors.
COMMERCE—EDUCATION—PSYCHOLOGY

COMMERCE

102A. Shorthand and Typewriting. 4 term hours. Mr. Try Hen.

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

201A. Accounting. 4 term hours. Miss Watson.

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

205. Junior Business Training and Secretarial Practice. 4 term hours. Prerequisite: Shorthand and Typewriting 102 A, B, C, or equivalent. Miss Watson.

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

208. Shorthand and Typewriting. 4 term hours. Prerequisite: Shorthand and Typewriting 102 A, B, C, or equivalent. Mr. Try Hen.

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.

EDUCATION AND PSYCHOLOGY

Education

101. Principles of Teaching. 4 term hours. Prerequisite: Psychology 101, 102. Miss Mason, Miss Spindler, Miss Stufft.

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.

104. Psychology of Reading. 4 term hours. Prerequisite: Psychology 101. Miss Spindler, Miss Stufft.

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.

201. Junior High School Education. 4 term hours. Prerequisite: Psychology 101, 102, Education 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.

205. Mental Tests. 4 term hours. Prerequisite: Psychology 101, 102. Mr. Bergman.

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.

206. Educational Measurements. 4 term hours. Prerequisite: Psychology 101, 102. Mr. Bergman.

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. Mr. Wilds.

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. Pellett.

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

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

An advanced course dealing with such practical problems as the adaptation of instruction to the different levels of intelligence, the adequate provision of guidance and exploration opportunities, the organization and supervision of home room activities, and the articulation of the junior high school with the elementary school and the senior high school.

307. Problems of Secondary School Education. 4 term hours. Prerequisite: Psychology 101, 102, Education 101. Mr. Ponitz.

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

325. Educational Publicity. 4 term hours. Dr. Farley.

A study of the theory of publicity in relation to educational progress; the content and preparation of the educational publicity program for the
press and other publicity agencies. The relation of school with community through parent-teacher organizations, civic and social clubs. Reports of administrative officers to boards of education, including the annual report. The school newspaper, school annual, and other school publications.

330A. School Supervision. 4 term hours. Prerequisite: Psychology 101, 102, Education 101, Teaching 201, 202. Miss Mason.

A course for those looking forward to positions as principals and supervisors of elementary schools and critic teachers in normal schools and teachers colleges. 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.

401. Philosophy of Education. 4 term hours. Prerequisite: Psychology 101, 102, 203. Desirable antecedents: Sociology 301A, 302. Dr. Burnham.

This course will attempt an inclusive analysis in the large of the possibilities of growth in normal human beings and will inquire how education may progressively reveal the significant goals of life. The purpose of this course is to relate the agencies of education to the personal achievement and utilization of a philosophy of life equal to the needs of individuals in their generation.

Early Elementary Education

101A. Early Elementary Education. 4 term hours. Mrs. Martin.

An appreciation of child conservation is sought through 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.

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 101A, B, Psychology 101. Miss Coppens.

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 experience, 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. Martin.

The development of rhythm and play in young children. About one-half of the course consists of readings and discussion 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. Martin.

A study of stories and poems suitable to childhood. A survey of the field and classroom practice in story telling.

Psychology

101. Introductory Psychology. 4 term hours. Mr. Powell, Mr. Chappell.

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. Mr. Powell, Mr. Chappell.

An application of the principles of psychology to the practical work of classroom 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.

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

Composition and Rhetoric

99. Grammar Drill. No credit given. Miss ————.

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 Little, Mr. Masterson.

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 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.
315. **Literary Criticism.** 4 term hours. Mr. Sprau.

A careful study of the fundamental principles of literary criticism, supplemented with wide reading in English critical essays. Each student writes several short criticisms. The work of the course is arranged to develop in the student a careful critical judgment and to cultivate the habit of careful criticism.

323. **Advanced Rhetoric.** 4 term hours. Mr. Foley, Miss Nobbs.

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.

**Literature**

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 Nobbs, Mr. Slusser.

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 Loutzenhiser.

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.

213. The English Novel. 4 term hours. Dr. Brown.

The first aim of the course is to acquaint the student with the method of studying and teaching prose fiction. For this purpose Pride and Prejudice will be carefully analyzed in the classroom. The class will then trace the development of the novel in Defoe, Richardson, and Fielding and their imitators. The leading novelists from Jane Austen to Hardy will be studied and representative novels read and analyzed.

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.

227. From Gray to Burns. 4 term hours. Mr. Foley.

After a brief review of what classicism stood for, the course will follow the development of romanticism in English poetry during the second half of the eighteenth century. The work of Gray, Macpherson, Goldsmith, Cowper, Burns, and Blake will be especially studied. Some attention will be given to such non-romantic writers of the period as Johnson and Crabbe. Continental influence, notably that of Rousseau, will be considered. Certain interesting points of resemblance and of difference will be indicated between literature of that time and of our own.

308. The English Drama. 4 term hours. Dr. Brown.

The class will trace the development of English drama from its origin in the miracle and mystery plays through the moralities, the imitations of Latin tragedy and comedy to the work of Lyly, Greene, Marlow, and Shakespeare. Representative plays of Jonson, Chapman, Beaumont and Fletcher, and Webster will then be read to trace the decline of drama to 1642.

311. Carlyle. 4 term hours. Mr. Sprau.

This course is intended for mature students who have a taste for serious thoughtful reading and who care for a better acquaintance with the work of this author. Special attention will be given to Sartor Resartus, Heroes and Hero-worship, Past and Present, and the more important essays.

322. American Literature. 4 term hours. Miss Nobbs or Mr. Slusser.

This course is intended primarily for juniors and seniors who have had no other courses in American literature and desire more intimate acquaintance with the subject. The work consists of lectures, discussions, and as wide reading as the time will permit.

GEOGRAPHY AND GEOLOGY

Courses 101A and 101B are the foundational courses in geography and should precede all other courses except 103 and 209. Other elections to complete the requirements for a major or minor in geography should be made with the approval of the chairman of the department. Students
preparing to teach geography should include course 212 in their elections. It is highly desirable that students majoring in geography elect, if possible, Economics 201 A, B and Botany 221C.

A major in earth science may be made by combining Geology 320 A, B, C, and six courses in geography.

Other recommended sequences are as follows:

a) For students whose chief interest is history: 101 A, B, 310, and the regional geography of the country in whose history especially interested.

b) For students whose major is in business administration: 209, 210, and one regional course.

c) For students preparing to teach general science: 101 A, B, 207, 306.

d) For students electing geography merely as a year sequence in science: 101 A, B, and one regional course.

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 Seas.

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.

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 of present social, industrial, and commercial life of its leading nations.

205. Geography of Mexico and the Caribbean Area. 4 term hours. Desirable antecedents: Geography 101 A, B. Miss Harrison.

It is the aim of this course to give the student such an acquaintance with the geography of these countries and islands as will enable him to understand the economic development of each and to follow intelligently the trend of political events within them.

212. The Teaching of Geography in the Grades. 4 term hours. Prerequisite: Geography 101 A, B. Miss Strunk.

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 of 1815. 4 term hours.

This course begins with the European background of American history, traces the origin and growth of the colonies, discusses their relation to the mother country, gives special attention to the causes and course of the Revolution and to the beginnings of state and national government, and concludes with the study of the Federalist and Jeffersonian periods.

101B. United States History, 1815-1877. 4 term hours. Miss Burnham.

This course treats the history of the rising West, the influence of the frontier, the industrial revolution and its consequences, the rise of democracy, the slavery controversy, the Civil War, and the period of reconstruction.

101C. United States History, 1877 to the Present Time. 4 term hours.

Miss Barnett.

The industrial development of the United States, 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 War, and the history of recent years are the chief topics in this course.

103. History of Rome. 4 term hours.

This course traces the history of Rome from the earliest times to the fall of the Empire in the West. The development of early Roman institutions, the expansion of Roman power over the Mediterranean World, the transition from the Republic to the Empire, and the social, political, legal, and cultural life of imperial Rome are the chief topics emphasized.

201A. Modern Europe, 1500-1763. 4 term hours. Mr. Trumble.

A study of the Reformation and the religious wars which followed it, the struggle between Spain and England, the rise of the Dutch republic, the growth of absolutism in France, the establishment of parliamentary supremacy in England, the rise of Russia and Prussia, and the world conflict between France and Great Britain.

201B. Modern Europe, 1763-1870. 4 term hours. Mr. Trumble.

European life in the eighteenth century, the French Revolution, the era of Napoleon, the industrial revolution, reaction after 1815, the rise of democracy and nationality in the nineteenth century.

201C. Modern Europe, 1870-1927. 4 term hours. Miss Barbour.

The history of the Third French Republic, political and social reform in England, the German Empire, the problem of the Near East, the expansion of Europe in Asia and Africa, international relations, the World War and since.

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

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

301A. United States History, 1783-1815. 3 term hours. Dr. Knauss.

This course begins with the Critical Period in American History and treats in detail the making of the Constitution, the organization of the government under it, the reign of Federalism, the triumph of Jeffersonian democracy, and the influence upon America of the Revolutionary and Napoleonic wars in Europe.

302. Economic Development of Modern Europe. 3 term hours. Dr. Knauss.

A study of the origin and development of the economic institutions of the present day with particular references to European development since 1500.

Political Science

201A. National Government. 4 term hours. Mr. ———.

A study of the national government of the United States including its structure, functions, and operations.

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

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. ———.

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. Mr. ———.

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.

203. Labor Problems. 4 term hours. Prerequisite: Economics 201 A, B. Mr. ———.

An analysis of the nature and underlying causes of the problems facing the worker in modern economic society, followed by a consideration of
the attempts which have been made at their solution by employers and public as well as by the workers themselves. Present methods are evaluated in the light of underlying economic principles in order to develop sound thinking about these problems.

**Sociology**

103. Sociology. 4 term hours. Elective for freshmen only. Dr. E. Burnham.

A study of social relations and activities in small communities. An elementary textbook in general sociology and a text dealing specifically with village and country life are used. A collection of source materials illustrating the co-operation of teachers and schools in local activities is available.

201A. Society and the Individual. 4 term hours. 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 Pathology. 4 term hours. Prerequisite: Sociology 201 A, B.

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 201 A, B.

A review of the history of the family and marriage. Lectures, reports, and discussions of modern theories and problems.

**HOME ECONOMICS**

Foods

107. Foods. 4 term hours. Miss Moore.

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.

A general discussion of the essentials of an adequate diet; application of such knowledge to the feeding of individuals and family groups and the planning of typical diets.

207. Advanced Foods. 4 term hours. Prerequisite: Foods 107 or equivalent. Miss Moore.

Problems in planning, marketing, preparing, and serving meals.

Clothing

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

A course for non-specializing students. Clothing appreciation and garment construction are taught to help the student of any department to clothe herself appropriately and economically.

210. Clothing. 4 term hours. Prerequisite: Clothing 101 or equivalent. Miss Walker.

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

Note.—Clothing 210 or Millinery 215 will be offered according to major interest.

215. Millinery. 2 or 4 term hours. Prerequisite: Clothing 110 or equivalent. Miss Walker.

Millinery design and fundamental processes of construction.

Household Administration

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

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

212. Home Nursing. 4 term hours. Miss Ellis Walker.

Personal hygiene with emphasis on sleep and individual problems of health. Home nursing from the standpoint of prevention of illness, care of the sick, and study of communicable diseases. Child care to include the pre-natal and infancy periods.

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 210A 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.

MANUAL ARTS

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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; 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 continuation of course 99. 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 suitable for students enrolled in other departments. This course will also give special attention to those students who are preparing to go into rural high schools where they will be expected to give a general course in farm shop. Content of small high school farm courses leading to Smith-Hughes vocational courses will be studied.
102A. **Household Mechanics.** 4 term hours. Mr. Woods.

A course in the selection, care and repair of mechanical devices used in the modern home. Includes practical problems in glazing, painting, soldering, carpentry, furniture repair, refinishing, care and repair of electric appliances, and plumbing.

102B. **Household Mechanics.** 4 term hours. Prerequisite: Household Mechanics 102A. Mr. Woods.

A more advanced study of tools, materials, equipment; the development of a course of study; the construction and application of job sheets. Of particular interest to those preparing to supervise or teach Household Mechanics.

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.

108. **General Metal.** 4 term hours. Mr. Weaver.

A course presenting through unit activities an appreciation of the methods used in handling and shaping metals. Processes in forging, bending, riveting, oxyacetylene welding, brazing, soldering, spinning, stamping, etching, and polishing are demonstrated and worked out in several metals.

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.

A continuation of course 116A. Proportion and balance are emphasized; 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 116 A, 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 presswork.

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.

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 in 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 publications. 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.

224. Machine Shop. 4 term hours. Mr. Weaver.

Advanced practice in machine tool construction, operation, and repair. Machine parts are finished and assembled and considerable time is devoted to tool-making. A study is made of shop layouts and equipment and a course is outlined for teaching machine shop practice.

242. Auto Mechanics. 4 term hours. Mr. Weaver.

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. 5 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, equipments, supplies, and inventories are carefully studied.

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. Mr. Hart.

Plane trigonometry, trigonometric functions, identities, inverse functions, solution of triangles by logarithms.

101. Arithmetic. 4 term hours. Prerequisite: high school algebra and geometry. Mr. Ackley.

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.

112. Applied Mathematics. 4 term hours. Mr. Hart.

An elementary course in the application of the fundamental operations of mathematics to the solution of industrial or simple engineering problems.

115. College Algebra. 4 term hours. 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 Shaunding.

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, 115, and 116, will be admitted to Calculus.

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

This course will consist of a series of talks and discussions, with assigned readings, 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 application of the subject will be considered along with the more traditional material of these grades. Not open to freshmen.

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

An elementary course in differential calculus.

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

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. Bartoo.

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 of credit.
815-316. **History of Mathematics.** 4 term hours. Prerequisite: College Algebra and Analytic Geometry. Mr. Blair.

This course will combine courses 315 and 316 of the regular winter and spring terms, and deal with 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 or 101B. **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 the work of any term until the year's work is completed. The fundamentals of French grammar, pronunciation, and ear training will be stressed.

Note.—101B is open only to those who began 101A as a Summer course.


Composition based on text and on assigned topics and further practice in oral French. The term's work will count for 102A, 102B, or 102C according to the enrollment.

204A. **Problems of Teaching French.** 4 term hours. Prerequisite: teaching experience or more than two years of college French. Miss Tamin. (204A and 208A may not be offered.)

A study will be made of phonetics, practical suggestions for oral drill, dramatization, choosing of texts, and literary appreciation. Some demonstration lessons.

208A. **Rapid Reading and Conversation Course.** 4 term hours. Prerequisite: reading ability beyond second year. Miss Tamin.

The conversation of the class will be based upon texts read outside the class period.

**German**

101A. **Elementary German.** 4 term hours. Miss Steckelberg.

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 Steckelberg.

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 Lamb.

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

Note.—Of courses 101A or 101B, the one will be given which has the larger enrollment.
MODERN LANGUAGES—MUSIC

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

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 monotonies; experience in presentation and teaching of rote songs and introduction of notation.

105. Later Elementary Music. 4 term hours. Mrs. Britton, Mrs. Snyder.

Material suitable for upper grades, method of introducing part singing, and experience in unison and part singing in all major and minor keys.

106. Rural School Music. 4 term hours. 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.

206C. Music Education. 4 term hours. Prerequisite: Music 206 A, B, or equivalent. Mr. Maybee.

The course presents methods of organizing classes and material suitable for 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 voice culture.

209A. Harmony. 4 term hours. Prerequisite: Music 101 A, B, C, and at least the ability to play hymns. 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 required.

212C. Musical Appreciation. 4 term hours. Prerequisite: Music 101 A, B, C and 212 A, B. Miss Eckhardt, Mrs. Tawney.

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.

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. A credit in penmanship is required in some curricula.

**PHYSICAL EDUCATION FOR MEN**

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

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

**103. Physical Education.** Mr. Maher.

Intramural teams and County Baseball League play a regular schedule of games from 3:00 to 5:00 o'clock.

**212. Training and Massage.** 2 term hours. Mr. Hyames.

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

**302. Theory and Practice of Individual Gymnastics.** 4 term hours. Prerequisite: Anatomy 211 A, B, Kinesiology 220. Mr. Jones.

This course will deal with the diagnosis of faulty posture prevalent among school children and the measures employed for its correction. A program of activities for the correction of specific cases of round shoulders, hollow back, lateral curvatures of the spine, and flat feet will be outlined; in fact any deformities, the correction of which are within the realm of the physical educator, will be outlined and discussed. An opportunity will be made for the practical work under supervision three hours each week. Methods of making posture tests will be presented. Lectures, discussions, clinical practice; a term paper and notebook will be required.

**304. Organization and Administration of Physical Education.** 4 term hours. Mr. Schott.

This course will draw up, plan, and discuss physical education programs for city, village, and rural schools; the organization of health lessons, games, tests, meets, tournaments, and seasons of play; principles of supervision; construction and equipment of the buildings, grounds, swimming pools, athletic fields, stadia.

**313. Football Technique.** 3 term hours. Mr. Hyames.

Fundamentals of football coaching with special emphasis on catching, punting, kicking, blocking, interference, tackling, principles of line and
backfield work, the most approved manner of playing the various positions. Building and formation of plays, generalship, signal systems, and scouting. Some problems of the coach. Study of the rules.

315. Basketball Technique. 3 term hours. Mr. Read.


317. Baseball Technique. 3 term hours. Mr. Hyames, Mr. Maher.

Theory and practice in base running, fielding, batting, and pitching; detailed study of each position; offensive and defensive team play; officiating; scoring; study of rules.

319. Track and Field Technique. 3 term hours. Mr. Read.

The best accepted forms of starting, hurdling, distance running, pole vaulting, discus and javelin throwing, sprinting. Study of physical condition affecting speed, endurance, and fatigue. The selection and preparation of contestants for the different track and field events. Managing and officiating of games and meets. Study of rules. Practice on the track.

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 trips will be taken. The object of this course is to make every graduate of the department a potential scout master.

336. Playground and Community Recreation. 4 term hours. Mr. Jones.

Nature and function of play; age periods, and adaptation of activities; social environment; playground development, construction, management, and supervision. Practice in class instruction in games, story plays, handwork, and other physical activities. A survey of recreational material, athletic and field meets. Laboratory work with Training School children required.

PHYSICAL EDUCATION FOR WOMEN

Medical examination is required of each student upon entering. No student is excused from participation in the work of this department through physical disability except upon agreement with the examining physician and the chairman.

The regulation gymnasium suit consists of black circular bloomers and a white middy. A grey tank suit is required for swimming.

Students are not permitted to take more than one course in physical education during a term.

101B. Physical Education. Miss Bottje.

Volley ball and folk dancing are emphasized. Tactics and gymnastics are included.

102. Physical Education. Miss Bottje, Miss Mullen, Miss Spalding.

Tennis.
103. Physical Education. Miss Crane.
Folk dancing.

105. Physical Education. Miss Bottje, Miss Mullen.
Swimming, diving, and life-saving.

107. Physical Education. Miss Spalding.
Basketball. For those wishing to play the game and for students expecting to coach.

203. Physical Education. Miss Crane.
A graded course in games.

301. Physical Education. Miss Mullen.
Advanced work in clogging. This course is intended for teachers of physical education who wish to get additional material. Any activities selected by the group will be taught.

322. Community Recreation, Scouting, and Camp Fire. 4 term hours.
Miss Crane.
A survey of the field of community recreation and a study of the Girl Scout and Camp Fire movements.

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 in physical science may be made by taking one year of chemistry and two years of physics. A minor in physics consists of 24 term hours and may not be made by combining physics and chemistry. A year of college mathematics should precede courses 201 A, B, C.

Although it is desirable that students start their college physics with the course in Mechanics, exceptions may be made to this requirement in the case of Summer students.

201A. Mechanics and Sound. 4 term hours. Prerequisite: high school physics and trigonometry. Mr. Edwin Fox.
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. Heat and Light. 4 term hours. Prerequisite: Physics 201A. Mr. John Fox.
A general course dealing with the phenomena of heat and light. This course, together with 201A and 201C, 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 201C. Classroom, 4 double periods a week; laboratory, 2 double periods a week.
201C. Magnetism and Electricity. 4 term hours. Prerequisite: Physics 201A. Mr. Rood.

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 201B, constitutes a year’s work in college physics and should be elected by all students who desire a 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.

202A. Mechanics and Sound Problems. 1 term hour. To accompany Physics 201A. Mr. Edwin Fox.

Students desiring the required ten hours of physics for engineering must elect this course.

One double period a week.

202B. Heat and Light Problems. 1 term hour. To accompany 201B. Mr. John Fox.

See description of course 202A.

202C. Electricity and Magnetism Problems. 1 term hour. To accompany 201C. Mr. Rood.

See description of course 202A.

210. Astronomy. 4 term hours. Mr. John Fox.

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

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

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.

Classroom, 4 single periods a week.

RURAL EDUCATION

Additional information relating to the work of the Department of Rural Education may be found on the following pages:

- Opportunities in the field of rural education, page 20.
- Facilities for training for work in rural education available at Western State Teachers College, page 20.
- Certificates granted and degrees conferred, page 21.
- Curricula offered, pages 47, 48, 49, 51, 52.
- Provision for county normal and helping teachers, page 20.

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. Robinson.

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.

Note.—Rural Education 201B will be offered in the summer of 1929.

304. Rural Education. 2 term hours. Dr. Robinson.

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.

Note.—304 A, B, or C will be offered according to major interest.

103. Sociology. (See description of course in Department of History and Social Science, page 66.)

SPEECH

101A. Fundamentals of Speech. 4 term hours. Mr. Lahman.

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.

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

Analysis and oral interpretation of the more simple types of prose and poetry.

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. Mr. Lahman.

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 1928-1929 in the Michigan High School Debate League.
The Training School will be open from 8:30 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 session 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) meetings with the Supervisors 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 Steinway, 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.
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