Summer 1938

Bulletin: Western State Teachers College Summer 1938

Western Michigan University

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1938 SUMMER SESSION
MONDAY, JUNE 27, TO FRIDAY, AUGUST 5
1938 SUMMER SESSION
MONDAY, JUNE 27, TO FRIDAY, AUGUST 5
DIRECTIONS FOR CORRESPONDENCE WITH WESTERN STATE TEACHERS COLLEGE

Correspondence with Western State Teachers College should be addressed as indicated below:

a) Requests for catalogs, bulletins, blanks for recording high-school credits, and other literature—The Registrar.
b) Concerning the adjustment of credits—The Registrar.
c) Concerning board, rooms, and remunerative work for men—The Dean of Men.
d) Concerning board, rooms, and remunerative work for women—The Dean of Women.
e) Concerning rural education—The Director of the Department of Rural Education.
f) Concerning extension work—The Director of the Extension Department.
g) Concerning educational research—The Director of the Bureau of Educational Measurement and Research.
h) Other general inquiries—The Registrar.

INFORMATION FOR NEW STUDENTS

A student applying for admission should

a) Have a certified copy of his high-school credits mailed to the registrar by the high school from which he graduated.
b) If entering with advanced standing from any county normal, normal school, college, or university, have mailed to the registrar complete official statements regarding the work for which credit is sought.
c) Have credits sent in at as early a date as possible.
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CALENDAR ANNOUNCEMENTS
1938-1939
Approved by the State Board of Education

SUMMER SESSION—1938

Monday, June 27 .................................. Registration of students
Tuesday, June 28 .................................. Recitations begin
Friday noon, August 5 ................................ Summer session ends

FALL TERM—1938

Monday, September 19, to Wednesday, September 21 ........ Freshman Days
Tuesday, September 20 .................................. Registration of freshmen
Wednesday, September 21 ................................ Registration of upper classmen
Thursday, September 22 .................................. Recitations begin
Wednesday noon, November 23, to Monday, November 28. Thanksgiving recess
Wednesday noon, December 14 ................................ Fall term ends

WINTER TERM—1939

Monday, January 2 .................................. Registration of students
Tuesday, January 3 .................................. Recitations begin
Friday noon, March 24 .................................. Winter term ends

SPRING TERM—1939

Monday, April 3 .................................. Registration of students
Tuesday, April 4 .................................. Recitations begin
Friday, June 16 .................................. Spring term ends
Saturday, June 17 .................................. Alumni Day
Sunday, June 18 .................................. Baccalaureate address
Monday, June 19 .................................. Commencement

SUMMER SESSION—1939

Monday, June 26 .................................. Registration of students
Tuesday, June 27 .................................. Recitations begin
Friday noon, August 4 ................................ Summer session ends

FALL TERM—1939

Monday, September 18, to Wednesday, September 20 ........ Freshman Days
Tuesday, September 19 .................................. Registration of freshmen
Wednesday, September 20 ................................ Registration of upper classmen
Thursday, September 21 .................................. Recitations begin
Wednesday noon, November 22, to Monday, November 27. Thanksgiving recess
Wednesday noon, December 13 ................................ Fall term ends
PROGRAM OF SUMMER SESSION EVENTS 1938

Pre-Summer Session—June 20-26

Field Course in Conservation. A week will be spent in the 77,000 acre Pigeon River Forest Reservation, twenty miles northeast of Gaylord, Michigan. Two term hours credit will be given for completion of the work involved. Enrollment limited. The work will be directed by Miss Argabright and Miss Hadley of Western State Teachers College Faculty and Mrs. DeWitt, Mr. Paquin, Mr. Rochester, Dr. Smith, and others of the Michigan Department of Conservation.

Special Summer Course for Rural Teachers. A seven weeks' course will be given through the cooperation of the W. K. Kellogg Foundation and the College. For further information see Department of Rural Education, page 96.

First Week (June 27-July 2)

Monday, June 27—Registration.
Tuesday, June 28, 8-9 A.M.—Visual Aids—Opportunities and demonstrations in connection with selected types of visual aids. Special laboratory facilities for those who wish to learn how to use lanterns, slides, and photographic equipment. Conferences each Tuesday at 8 o'clock. This day—"Pictures, Maps and Charts that Talk," Miss Logan, Room 205 S.
9 A.M.—General Assembly.* Address: "Around the World", Smith Burnham, Head of the Department of Social Science, Western State Teachers College.
3 P.M.—Matinee Tour. Kalamazoo State Hospital.
8 P.M.—Faculty Reception and dance for students, Women's Gymnasium.
8 P.M.—Feature Entertainment: Chambers Opera, Central High School Auditorium.

Second Week (July 5-July 9)

(Special Announcement. Conferences on Curriculum Reconstruction. Dr. Samuel Everett, Professor of Education, Northwestern University, Chairman of the Committee on the Community School of the Society for Curriculum Study, will lecture and conduct conferences. This four weeks' program of special conferences on the curriculum will open on July 5, with Dr. Eugene B. Elliott, State Superintendent of Public Instruction, presiding.)
Tuesday, July 5, 8 A.M.—Visual Aids: "The Ins and Outs of Photography." Mr. Fox, Room 301 S.
9 A.M.—General Assembly, Address: Dr. Eugene B. Elliott, State Superintendent of Public Instruction.
1 P.M.—Matinee Tour. General Foods and Ann J. Kellogg School, Battle Creek. Observe manufacture of popular breakfast foods, etc. Inspection of famous school with its special facilities for work with handicapped as well as normal children.

*General assemblies are usually but not always held on Tuesday mornings at nine o'clock. Additional general assemblies and special conferences will be announced later when final arrangements for them have been completed.
Wednesday, July 6, 3 P.M.—Matinee Tour. Kalamazoo State Hospital.

Thursday, July 7, 3 P.M.—Matinee Tour. W. K. Kellogg Foundation Camp, Pine Lake at Doster. A model camp for the rehabilitation of underprivileged children maintained by the Kellogg Foundation.

8 P.M.—Feature Entertainment: John McMahill Jr. and Jeffery Mongerson in "Spotlight Sketches", Central High School Auditorium.

Saturday, July 9, 5 A.M.—Excursion to Greenfield Village and the Detroit Tigers baseball game.

**Third Week (July 11-July 16)**

*(Special Announcement. Continuation of Curriculum Conferences. Dr. Rudolph D. Lindquist, Director of University School, Ohio State University, will lecture and conduct conferences.)*

Tuesday, July 12, 8 A.M.—Visual Aids: "What is What in the Use of the 16 M.M. Movie Machine", Mr. Hinds, Room 205 S.


1 P.M.—Matinee Tour. Camp Custer and the U. S. Veterans Hospital.

Wednesday, July 13, 10:00 A.M.—General Assembly: Rudolph Lindquist, Ohio State University.

3 P.M.—Matinee Tour. Consumers Power Company.


8 P.M.—Feature Entertainment: Lecture, "Experiences in the Orient", Prof. William H. McGovern, Northwestern University, Central High School Auditorium.

Saturday, July 16, 7 A.M.—Excursion to Elkhart and South Bend, Ind. Visit Notre Dame and St. Mary's. Enjoy other civic or historic attractions.

**Fourth Week (July 18-July 23)**

During this week educational exhibits of textbooks and school supplies will be displayed, Women's Gymnasium.

*(Special Announcement. Continuation of Curriculum Conferences. Dr. Fred M. Alexander, Director of the Division of Instruction, Virginia State Department of Education, Committee on Integration of the Society for Curriculum Study, will be the visiting specialist giving lectures and holding conferences.)*

Tuesday, July 19, 8 A.M.—Visual Aids: "Still Pictures that Talk Through Mechanical Aids", Mr. Pellett, Room 205 S.


1 P.M.—Matinee Tour. W. K. Kellogg Company and Sanitarium.

Wednesday, July 20, 3 P.M.—Matinee Tour. Kalamazoo State hospital.

8 P.M.—Feature Entertainment: Kalamazoo Civic Players, Civic Theatre.
Thursday, July 21, 3 P.M.—Matinee Tour. The Kalamazoo Gazette. Observe the interesting steps in the gathering, composition, and publishing of a modern newspaper.

8 P.M.—Feature Entertainment: Kalamazoo Civic Players, Civic Theatre.

Friday, Saturday, Sunday, July 22, 23, 24—Annual Socio-civic excursion to Chicago. Leave campus at 3 o'clock Friday afternoon. Return to campus midnight Sunday.

Fifth Week (July 25-July 30)

(Special Announcement. Continuation of Curriculum Conferences. J. Cecil Parker and G. Robert Koopman, curriculum specialists of the Michigan State Department of Public Instruction, will lecture and conduct conferences.)

Tuesday, July 26, 8 A.M.—Visual Aids: “Hear and See Audio-Visual Aids”, Mr. Cooper and Mr. Marburger. Room 205 S.

9 A.M.—General Assembly. Address: Charles Eagle Plume.

1 P.M.—Matinee Tour. The Upjohn Company. Manufacturers of high grade pharmaceuticals.


Thursday, July 28, 3:15 P.M.—Feature Entertainment: Gillette Ensemble, Central High School Auditorium.


Sixth Week (August 1-August 5)

Monday, August 1, 3 P.M.—Matinee Tour. Kalamazoo State Hospital. Clinic on types of mental diseases.

Tuesday, August 2, 9 A.M.—General Assembly.

Wednesday, August 3, 4 P.M.-6 P.M.—Faculty reception and tea to honor graduates. Women’s Club Room.

Thursday, August 4, 8 P.M.—Commencement Exercises.
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THE HON. WYNAND WICHERS ........................................ Vice-President
THE HON. FRANK CODY ................................................ Member
THE HON. EUGENE B. ELLIOTT .................................... Secretary

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Dr. Eugene B. Elliott

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The Department of Health

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The Campus Training School

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The Alumni Secretary

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**CLARA L. STERLING**, A. B., Circulation
A. B., Western State Teachers College; Battle Creek Business and Normal School.
### THE OFFICES, ETC.

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>John C. Hoekje</td>
<td>Registrar</td>
</tr>
<tr>
<td>Sara Ackley</td>
<td>Manager, Co-operative Store</td>
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<td>Blanche Draper</td>
<td>Teachers College Herald</td>
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<td>Homer M. Dunham</td>
<td>Publicity</td>
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<td>Eva Falk</td>
<td>Entrance Credentials</td>
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<tr>
<td>Margaret Feather</td>
<td>Clerk, Dean of Men</td>
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<td>Alice Haefner</td>
<td>Recorder</td>
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<td>Bernice Hesselink</td>
<td>Financial Secretary</td>
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<td>Edna Hirsch</td>
<td>Clerk, Main Office</td>
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<td>Secretary to the President</td>
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<td>Eleanor Linden</td>
<td>Appointment Office</td>
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<td>Cornelius MacDonald</td>
<td>Receiving Clerk</td>
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<tr>
<td>Maxine MacDonald</td>
<td>Clerk, Records Office</td>
</tr>
<tr>
<td>Grace Moore</td>
<td>Manager, Cafeteria</td>
</tr>
<tr>
<td>Elinor Page</td>
<td>Clerk, Records Office</td>
</tr>
<tr>
<td>Olga Roekle</td>
<td>Clerk, Research Department</td>
</tr>
<tr>
<td>Lucile Sanders</td>
<td>Clerk, Rural Department</td>
</tr>
<tr>
<td>Alice Smith</td>
<td>Appointment Office</td>
</tr>
<tr>
<td>Leah Smith</td>
<td>Extension Secretary</td>
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<tr>
<td>Carrie Stoeri</td>
<td>Clerk, Dean of Women</td>
</tr>
<tr>
<td>Thelma Waber</td>
<td>Clerk, Registrar</td>
</tr>
<tr>
<td>Virginia Wilcox</td>
<td>Bookkeeper</td>
</tr>
<tr>
<td>Ethel M. Winn</td>
<td>Clerk, High School Office</td>
</tr>
<tr>
<td>Marian Woodman</td>
<td>Clerk, Records Office</td>
</tr>
</tbody>
</table>

### THE FACULTY COUNCIL

1. **Members elected**
   - Terms expire May, 1940
     - George H. Hilliard, Anne Reidy, Lydia Siedschlag
   - Terms expire May, 1939
     - Hugh M. Ackley, Katherine A. Mason, D. C. Shilling
   - Terms expire May, 1938
     - Ernest Burnham, Anna L. Evans, Howard D. Corbus

2. **Members appointed**
   - Terms expire May, 1938
     - Paul Rood, Charles R. Starring, Charles Van Riper

3. **Members ex-officio**
   - President Paul V. Sangren
   - Registrar John C. Hoekje
## FACULTY COMMITTEES
### Summer Session 1938

<table>
<thead>
<tr>
<th>COMMITTEE</th>
<th>PERSONNEL</th>
<th>Freshmen</th>
<th>Upper Classmen</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Adult Education</td>
<td>Hoekje, Hilliard, F. Moore.</td>
<td>Siedschlag</td>
<td>Siedschlag</td>
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<td></td>
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<td>Kirby</td>
<td>Watson</td>
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<td>Seekell</td>
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<td>Fox</td>
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<td>M. Moore</td>
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<td></td>
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<td>Wilds</td>
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<td>Hilliard</td>
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<td>Hyames</td>
<td>Read</td>
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<td>Bottje</td>
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<td>Ford</td>
<td>Wilds</td>
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<td></td>
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<td>Fox</td>
<td>Blair</td>
</tr>
<tr>
<td>5. Curriculum Enrollers</td>
<td></td>
<td>Siedschlag</td>
<td>Struble</td>
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<tr>
<td></td>
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<td>Kirby</td>
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<td>Hyames</td>
<td>M. Gary</td>
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<td>Argabright</td>
<td>Hilliard</td>
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<td>Maybee</td>
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<td>M. Moore</td>
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<td>Berry</td>
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<td></td>
<td>Heathcote</td>
<td>Master</td>
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<td></td>
<td>Henry</td>
<td>Nobbs</td>
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<td>Bottje</td>
<td>Spalding</td>
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<td></td>
<td></td>
<td>Fox</td>
<td>Blair</td>
</tr>
</tbody>
</table>

## FACULTY COMMITTEES
### Committee Personnel

1. **Adult Education**
   - Hoekje, Hilliard, F. Moore.

2. **Commencement**
   - Brown, Cooper, Hoekje, Kirby, Maybee, Wilds.

3. **Curricula**
   - Steele, Berry, Hoekje, Shilling.

4. **Curriculum Advisers**
   - **Art**: Siedschlag
   - **Commerce**: Kirby
   - **Early Elementary**: Seekell
   - **General Degree**: Fox
   - **Home Economics**: M. Moore
   - **Industrial Arts**: Wilds
   - **Junior High School**: Hilliard
   - **Later Elementary**: Maybee
   - **Music**: Hyames
   - **Physical Education—Men**: Bottje
   - **Pre-Professional**: Fox
   - **Rural Education**: Robinson
   - **Senior High School**: Ford
   - **Special Education**: Ellis
   - **Unclassified**: Ellis

5. **Curriculum Enrollers**
   - **Art**: Siedschlag
   - **Commerce**: Kirby
   - **Early Elementary**: Phillips, Seekell, Stinson
   - **General Degree**: Ellis, Blair, Fox
   - **Industrial Arts**: Huff, Nichols, Weaver
   - **Junior High School**: Berry, Heathcote, Henry
   - **Later Elementary**: Argabright, Hilliard
   - **Music**: Maybee, Britton
   - **Physical Education—Men**: Hyames, M. Gary, Read
   - **Physical Education—Women**: Bottje, Spalding
   - **Pre-Professional**: Fox, Blair
   - **Rural Education**: Wilds, Ford, Master, Nobbs, Shilling, Tamin
   - **Senior High School**: Ellis
   - **Special Education**: Ellis
   - **Unclassified**: Fox, Blair
<table>
<thead>
<tr>
<th>COMMITTEE</th>
<th>PERSONNEL</th>
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</thead>
<tbody>
<tr>
<td>6. Faculty Meetings</td>
<td>Seekell, Kirby, F. Moore, Rood</td>
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<tr>
<td>7. Friendship</td>
<td>Cooper, M. Moore</td>
</tr>
<tr>
<td>8. General Advisory</td>
<td>F. Moore, Glasgow</td>
</tr>
<tr>
<td>9. Health</td>
<td>Borgman, Davis, Hyames, E. Walker</td>
</tr>
<tr>
<td>10. Honors Privilege</td>
<td>Sussier, Everett, Harrison, Hilliard, Siedschlag</td>
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<tr>
<td>11. Placement</td>
<td>Cooper, Brown, Davis, Hilliard, Hyames, Mason, Robinson, Sangren</td>
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<tr>
<td>12. Student Personnel</td>
<td>Hoekje, Carter, Davis, Kraft, Pellett, Splundler</td>
</tr>
<tr>
<td>14. Student Activities</td>
<td>Kercher, Davis, Hoekje, Hyames, Knauss</td>
</tr>
<tr>
<td>15. Student Loan Fund</td>
<td>Hoekje, Davis</td>
</tr>
</tbody>
</table>

N.B. In each case the person whose name appears first is the chairman of the committee.
General Information

PURPOSE

Through its summer session, Western State Teachers College provides opportunity for professional advancement for 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 large returns. Friendships formed or renewed; recreational opportunities; and intellectual inspiration through classroom contacts, lectures, round-table conferences, and conducted excursions—all combine to give fresh enthusiasm for the next year's work.

HISTORY

Summer sessions of six weeks' duration have been conducted since the foundation of Western State Teachers College in 1904. In the summer of 1937, 1311 students of collegiate rank were enrolled; 10 limited certificates were granted, and 130 degrees involving life certificates and 7 general degrees were conferred. Steady attendance indicates that these sessions have been found of distinct service to prospective and experienced teachers.

THE THIRTY-FIFTH SUMMER SESSION

The thirty-fifth summer session will open June 27, and continue until August 5. Students will be enrolled and classified on Monday, June 27. Instruction will begin in all classes on Tuesday, June 28. 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, the location of which, at the intersection of a series of natural highways, is one of the finest in the Old Northwest. The city is the halfway point between Detroit and Chicago on the Michigan Central Railroad. Branch lines of both the Pennsylvanian Railroad and the New York Central Railroad, together with a network of paved and graveled highways, and the trunk lines, U. S.-12, U. S.-131 and M-43, make it easily the hub of southwestern Michigan.

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. From the hilltop on clear days can be obtained a most pleasing panorama, eastward and northeastward, over the wooded city in the bottom lands, to the broken moraine of the Saginaw-Michigan ice lobes. To the west of the hilltop is the old drainage valley of the once large and vigorous Arcadia Creek, along which now runs the main line of the Michigan Central Railroad. In this depression are the athletic field, the Men's Gymnasium, the Manual Arts Building, and classroom buildings.

The city of Kalamazoo has a population of 60,000, dependent upon the business growing out of the rich surrounding farming country, the celery
fields within and adjacent to it, the widely known paper mills, and a diversity of other manufacturing industries. The exceptionally pure water supply is obtained from artesian wells that tap the deep glacial gravel beds of the old Kalamazoo Valley.

The city of Kalamazoo is generous in offering its unusual cultural advantages to students, often at a merely nominal cost. Kalamazoo has its own symphony orchestra which may be heard most pleasantly on Sunday afternoons. Each season the Community Concert Series brings the world’s foremost musical artists. There is an annual lecture course, also, of considerable dimensions, which, in the past, has presented such outstanding persons as Amelia Earhart, Cornelia Otis Skinner, and Dale Carnegie. The spoken drama is well produced from time to time by the Kalamazoo Civic Theater group in their beautiful experimental theater. Somewhat before Christmas of each year community choruses from southwestern Michigan join with the Kalamazoo and Western State Teachers College choruses in a festival performance, under the baton of Mr. Harper Maybee, of Handel’s Messiah, with soloists and orchestra. The exhibits of the Kalamazoo Art Institute are always an attraction. And added to these opportunities, there are those offered by the churches. The leadership in the various denominations is naturally rather strong in a city the size of Kalamazoo, and a special student pastor engaged by some of the churches helps to produce a lively Christian consciousness.

BUILDINGS AND MATERIAL EQUIPMENT

Nine buildings, well adapted to their uses, provide an excellent physical equipment.

1. The Administration Building contains the administrative offices, the Bureau of Educational Measurement and Research, the Alumni Office, the Women’s League Room, the College Co-operative Store, the High School Assembly Room, and several classrooms.

2. “The Barracks.” In the building used as a barracks during the S. A. T. C. days are the Department of Art, the Department of Early Elementary Education, part of the Department of Home Economics, and three classrooms. (Laboratories for courses in foods and cookery are in the Administration Building and the Training School.)

3. The Industrial Arts Building is a fireproof structure of modern factory type. It offers facilities for specialization in woodworking, metal working, and drafting. There are separate units for elementary woodwork, advanced woodwork, forging, sheet metal, machine shop, foundry, pattern making, and gas-engine and automobile repair work. The drafting room receives north and west light. Washrooms and showerbaths adjoin the locker room.

4. The Library Building, which was completed in the summer of 1924, enables all the students of the college to do reading and reference work under the most comfortable conditions. One corner of the building, at the side of the wide entrance lobby, is occupied by a long delivery desk, behind which is the steel-constructed stock-well. 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. On the second floor are two large lecture rooms and two classrooms. The basement provides more classrooms and a check room for wraps. The library consists of 43,000 volumes, arranged according to the decimal classification and indexed by a card catalog of the dictionary type. There are 69 complete files of periodicals; 333 periodicals and 12 newspapers were subscribed for during the current year. (Upon the payment of a small fee students are also accorded the services of the efficient staff of the Kalamazoo Public Library and the use of its collection of 80,000 volumes.)
5. The Men's Gymnasium was erected in 1925. Its size and equipment make possible adequate training of varsity basket ball and indoor track teams, the preparation of physical directors and athletic coaches, and the carrying out of an intramural 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 basket ball floor, with three cross courts for intramural 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. There are also offices, classrooms, and adequate locker rooms.

6. The Science Building adequately houses a number of departments.

The Department of Agriculture has its classrooms here. (The laboratory is a one-hundred-fifty-acre farm of fertile silt loam. Here a pure-bred herd of Guernsey cattle is raised, feeder cattle are kept, pure seed is grown, and a fine flock of laying hens is housed in a modern poultry house. A young orchard of good varieties of fruit is available for observation. Alfalfa fields, cover-crop demonstrations, and modern machinery are maintained.)

The Department of Biology has 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 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 are found many of the current chemical journals, together with a large number of works of authoritative chemists.)

The Department of Commerce occupies part of the basement of this building. 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 Department of Education and Psychology. All the instruments necessary for standard introductory and advanced courses in psychology 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 college 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 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; and a balopticon with several hundred slides.

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, a shop, and stock rooms.
The laboratories are adequate for experimental work in all phases of general physics. Precision instruments and precision standards are available for use in the courses in electricity and electrical measurements. In these laboratories the student has ample opportunity to become familiar with the manipulation and operation of modern high-grade apparatus.

7. The Temporary Buildings. The temporary buildings are well lighted, heated, and ventilated. They provide four recitation rooms.

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

Training Schools

The Training Schools of Western State Teachers College represent one of the most complete systems in the United States. They include a wide range of typical schools—a one-room rural school, a consolidated school, a township-unit school, a large village school, and a city graded school and a high school (Campus)—thus approximating the types of schools students expect to work in after graduation. These schools give the student an opportunity for directed teaching in special subjects, and in any grade desired, from the kindergarten to the twelfth grade inclusive. Transportation to the outlying schools is afforded by the Teachers College busses.

The Campus Training School includes a kindergarten; a room each for grades one to eight; a library; a gymnasium; and special rooms for art, music, and home economics. The grade rooms center about an open light-well, forming a rotunda, with a stage for assemblies. Enrollment is by application; new pupils are accepted from a waiting list when vacancies occur. Owing to the large demand for admission, only pupils of normal grade-age are accepted; no room for retarded pupils is maintained on the campus.

The Campus High School is a typical four-year high school and a member of the North Central Association. The general assembly room and the offices are on the second floor of the Administration Building. (See separate catalog for the High School.)

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

The Paw Paw Large-Village School is one of the best of its kind. Western State Teachers College and the Paw Paw Board of Education unite to make this school a progressive one in every particular. All elementary grades, junior and senior high schools, and special departments are included, and the best types of modern equipment are exemplified. There are at present twenty-seven faculty members.

The Portage Center Consolidated School, a fifteen-teacher school, includes a kindergarten, all the elementary grades, and a high school. The new building is especially constructed both to meet the needs of the local community and to extend the directed-teaching facilities of the Teachers College into this type of situation.

The Richland Township Unit School, a twelve-teacher school, has a building and facilities similar to those of the Portage school above described. It is organized on the six-six plan.

For each of the off-campus training schools the buildings and material equipment are supplied by the local community; but the faculties are employed and the schools are administered by the Teachers College.

In these teaching laboratories, students have an opportunity to test and apply previously studied theory under trained supervision. They experience
the daily problems of the teacher and study children directly. They acquire the elementary habits and skills and some of the techniques of modern teaching. Each student is responsible for the progress of an assigned group of children.

ADMISSION

Students may enroll at the opening of any term.

REQUIREMENTS FOR ADMISSION

Adopted by the State Board of Education at its meeting December 21, 1934

A graduate of a four-year high school accredited by the University of Michigan will be admitted to Western State Teachers College, provided that he is recommended by the principal of the high school and that he meets conditions indicated below.

1. Prescribed Preparatory Work. A minimum of fifteen units is required for admission. Among these must be included certain major and minor sequences selected from the five groups of subjects below, a major sequence consisting of three or more units, a minor sequence consisting of two or two and one-half units.

A minimum of four sequences must be presented, including a major sequence from Group A and at least one other major sequence. Not more than one of these required sequences will be accepted from any one group except Group B. Sequences may be presented from two languages.

A. English. A major sequence of three or more units.

B. Foreign language. A major sequence consists of three or more units of a single language; a minor sequence consists of two or two and one-half units of a single language. The foreign languages acceptable for a sequence are Greek, Latin, French, German, and Spanish.

C. Mathematics—Physics. A minor sequence in this group must include 1 unit of algebra and 1 unit of geometry.

A major sequence is formed by adding to this minor sequence one or more units from the following:

Advanced algebra ½ or 1 unit, solid geometry ½ unit, trigonometry ½ unit, *physics 1 unit.

D. Science. Any two units selected from the following constitute a minor sequence and any three or more units constitute a major sequence.

*Physics 1 unit
Chemistry 1 unit
Botany 1 unit

Zoology 1 unit
Biology (Botany ½ unit and Zoology ½ unit) 1 unit

If biology is counted in these sequences neither botany nor zoology can be counted.

E. Social studies. A total of two or two and one-half units selected from the following constitutes a minor sequence, a total of three or more units a major sequence.

Ancient History 1 unit
**European History 1, 1½, or 2 units
***American History ½ or 1 unit
***American Government ½ unit
***Economics ½ unit

*Physics may not be counted in both of the Groups C and D.
**English History may be included under European History.
***Half units in the social studies are acceptable as part of a sequence only if taken in the 11th or 12th grade.
The remaining units, required to make up the necessary fifteen units, are entirely elective from among the subjects listed above, and any others which are counted toward graduation by the accredited school.

The registrar shall have the authority, with the consent and approval of the departments of instruction most intimately concerned, to accept other courses as substitutes for certain of the units listed in the various groups. Only courses well organized and competently taught will be considered, and any school desiring the privilege of such substitution for its graduates should furnish the registrar with detailed description.

2. Admission by Examination. The fifteen units required for admission by examination must all be chosen from the five groups listed above and must meet the prescribed sequence requirement.

3. Partial Certificate—Partial Examination Plan. This plan is available only to a graduate of an accredited high school whose principal is willing to recommend him in a part of the required fifteen units. The candidate may at the discretion of the registrar be admitted on the basis of the principal's recommendation covering the units satisfactorily completed plus examination covering the units in which he is deficient. For this purpose examination will be provided only in the subjects listed in the five groups.

High-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.

A copy of Entrance Credentials can be secured from the principal of the high school from which the student graduated.

Entrance with Advanced Credits

Advanced credit is allowed for work done in other normal schools and colleges to the extent to which the applicant's record shows that such work is the equivalent of courses offered in Western State Teachers College. Application for advanced standing, accompanied by credentials, should be made to the registrar.

Transient Students

A student from another institution who is not transferring permanently to this college is required to submit an official statement from his college to the effect that he is in good standing at that institution. Those transferring permanently are, of course, required to submit official transcripts of credits earned in other institutions.

CREDIT RELATIONS WITH OTHER COLLEGES AND UNIVERSITIES

Graduates receiving the old five-year certificate or the new State Limited usually are granted junior standing in colleges and universities. They 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 other college or university should plan his work with the requirements of the particular institution in mind.

Admission to 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 and of the North Central Association.
EXPENSES

Tuition Fees

For residents of Michigan $6.00 for the summer session; for non-residents of Michigan $10.00. Tuition will be prorated on the basis of the number of courses taken. "In determining the number of subjects, physical education and handwriting are to be counted as full subjects. The student activities fee is to be paid in full by all students, whether taking one subject or more."

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 (teachers colleges) may not have county normals.

*RESIDENCE REQUIREMENTS

Residence in Michigan for the purpose of registration shall be determined according to the state constitutional provision governing the residence of electors (See Article III, Sections 1 and 2), that is, no one shall be deemed a resident of Michigan for the purpose of registration in the college unless he has resided in this state six months next preceding the date of his proposed enrollment, and no person shall be deemed to have gained or lost a residence in this state while a student in the college.

The residence of minors shall follow that of their legal guardians.

The residence of wives shall follow that of their husbands.

Persons of other countries who have taken out their first citizenship papers and who have otherwise met these requirements for residence, shall be regarded as eligible for registration as residents of Michigan.

It shall be the duty of every student at registration, if there be any possible question as to his right to legal residence in Michigan under rules stated above, to raise the question with the registration officer and have such question passed upon and settled previous to registration.

Miscellaneous Fees

A fee of $10.00 has been authorized for the support of student activities, student union, health service, library purposes, subscription to the Teachers College Herald, the official weekly student publication, etc.

A student for whom no identification photo is on file pays an additional 25 cents when such photo is taken.

Graduation Fees

Five-Year 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 after opening day, June 27, will be charged an additional fee of $2.00.

Refunds

No refunds of fees will be made after the first week of the summer session.

ESTIMATE OF NECESSARY EXPENSES

An estimate of minimum expenses for the summer session may be formed from the following table:

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room (one-half of a double room)</td>
<td>$12.00 to $18.00</td>
</tr>
<tr>
<td>Board</td>
<td>27.00 to 36.00</td>
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<tr>
<td>Laundry</td>
<td>0.00 to 5.00</td>
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<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>15.00 to 15.00</td>
</tr>
</tbody>
</table>

Total for 6 weeks ....................... $70.00 to $98.00
THE COLLEGE CAFETERIA

A cafeteria is maintained in the basement of the Training School Building. Breakfasts, lunches, and dinners are served. The aim is to provide wholesome food at low cost to students.

REMUERATIVE OCCUPATION

Kalamazoo offers some 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.

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 to the Dean of Men.

The college lunchroom offers employment to several students. Miss Grace E. Moore is in general charge of the lunchroom; to her all applications for work should be made.

SCHOLARSHIP AND MEMORIAL FUNDS

The Burnham Rural Life Fund. Commemorating the twenty-fifth anniversary of Dr. Ernest Burnham's work at Western State Teachers College as the pioneer in rural education in teachers colleges in America, his students, colleagues, and friends established the Burnham Rural Life Fund. A part of this fund has been used to supplement the collection of books on rural life and education in the college library; the remainder has been invested to yield an annual income which may be used for the purchase of additional books, for scholarships in the Department of Rural Education, or for such services in behalf of rural life as the committee in charge shall consider of most value.

The Fannie Ballou Memorial Fund, founded in 1921, in honor of Fannie Ballou, who was for seven years supervisor of the second grade of the Training School, is administered as a loan fund. Loans are awarded to persons of superior ability in the field of elementary education who have completed at least one year of resident work in this college. Preference is given to students in the Department of Early Elementary Education. The administration of this fund is in charge of the Loan Fund Committee.

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

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

The Harvey Memorial Loan Fund was established in 1925 by the Students Science Club in honor of the memory of Dr. LeRoy H. Harvey, who was, until his death, the active and inspiring head of the Department of Biology.

The fund is administered by a joint committee of students and faculty members who are interested in science. Loans are made to students whose major interests are in the field of science.
The Katherine Mulry Johnson Scholarships were founded in 1926 by Mrs. Johnson, for some time supervisor of the sixth grade in the Training School and later a member of the Department of History of Western State Teachers College, in honor of her mother. These scholarships are awarded annually, by a committee from the Department of History, to two upper-class women students of superior ability who plan to become teachers of history.

The Matie Lee Jones Memorial Loan Fund, founded in 1929 in honor of Matie Lee Jones, who organized the Department of Physical Education for women, is available to women students. The fund is administered through a committee consisting of the officers and the faculty advisers of the Women's League.

The State D. A. R. Scholarship Loan Fund, founded in 1934, has grown to a fund of $500 through gifts made by the State Committee of the Daughters of the American Revolution. The Administration of this fund is in charge of the Student Loan Fund Committee.

The Stone D. A. R. Student Loan Fund was established in 1932 through gifts from the Lucinda Hinsdale Stone Chapter of the Daughters of the American Revolution. The fund is administered by the Student Loan Fund Committee.

The Student Health Loan Fund was established in the spring of 1933 with contributions from the Senior Class of that year and the Student Association, amounting to approximately $450. Short term loans for medical and dental services are made from this fund, which is administered by the Health Service.

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

HOUSING REGULATIONS FOR COLLEGE STUDENTS

A list of approved rooms for men is available in the office of the Dean of Men and for women in the office of the Dean of Women. Students may not live in rooms other than those on the approved list without securing special permission. It is well to make arrangements for a room before the opening of the Summer Session.

Students are expected to stay the full session in the rooms first engaged, changes being made only with the approval of the dean concerned.

A deposit of the first week's rent is required of a prospective student when engaging a room. Payment of rent should be made weekly in advance.

STUDENT WELFARE

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

The college has never assumed an attitude of paternalism toward its students. On the assumption, however, that the student has entered the institution for the definite purpose of educational advancement, regularity of class attendance, reasonable evening hours, and a sane social program are required.
Enrollment for the summer session will occur on Monday, June 27. A circular giving detailed information relative to registration may be obtained at the Information Desk in the Women's Gymnasium or at the Administration Office.

ADVISORY SYSTEM

All freshmen are advised and helped throughout the year, by the Freshman Adviser, in planning and adjusting their academic programs. Each freshman works out his schedule term by term with the assistance of the adviser, at definite conference periods assigned to him. The details of the curricula, the sequence of studies, the type of work for which the student seems best adapted, are all considered at these conferences.

Juniors and seniors who elect their major or minor in the Departments of Biology, Chemistry, Geography, History, Languages, Mathematics, and Physics are requested to confer with the department adviser concerning special courses to be pursued. For other upper classmen conferring with the adviser is optional but strongly recommended.

CLASSIFICATION OF STUDENTS

Students at Western State Teachers College are classified officially as follows:

Freshmen—Students credited with 0—45 term hours inclusive.

Sophomores—Students credited with 45—90 term hours inclusive.

Juniors—Students credited with 90—138 term hours inclusive.

Seniors—Students credited with more than 138 term hours.

The above classification relates to eligibility for participation:

a. In class activities
b. As officers
c. In social affairs

The initial classification given during a current college year obtains throughout that year.

CREDIT IN TERM HOURS (SUMMER SESSION)

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

Fractional units of work are accorded credit as indicated on the summer session schedule of classes.

(No credit will be given for a course for which the student is not officially enrolled.)

THE STANDARD CLASS LOAD FOR THE SUMMER SESSION

Eight term hours of work carrying academic credit is the standard student class load for a summer session.

The Committee on Student Personnel regulates the maximum load for a given student on the basis of his apparent ability, etc.

EXTRA STUDIES

A freshman may not enroll for more than eight term hours and an upper-classman, for more than ten term hours of work carrying academic credit during the summer session without the permission of the Extra Studies Committee. Physical Education and Library Methods are not counted in term hours.
Students may make application for an extra study by securing an application blank from the chairman of the Extra Studies Committee, filling out the same, and filing the application with the chairman of the committee. Only in exceptional cases is permission granted to carry extra studies during the first term of residence.

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

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 twenty-five cents.

MARKING SYSTEM

Each course receives one grade, which combines the results of class work and tests.

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>U</td>
<td>Unsatisfactory</td>
<td>Not to be counted</td>
</tr>
<tr>
<td>E</td>
<td>Failure</td>
<td>0</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
<td></td>
</tr>
</tbody>
</table>

*For Directed Teaching only.

The mark of I means that the student has not finished the work of the course, because of illness, unsatisfactory work, or some other cause, and that he may be given opportunity to complete it.

F's must be removed during the next succeeding term (except when the student does not return, and then within one year) or they automatically becomes E’s.

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

WITHDRAWAL FROM COURSES

Necessary changes in enrollment must have been made by the end of the first week of the session.

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 (failure) will be given.

Permission to "drop" a course will not be granted, after the end of the first week of the session.

SIGNIFICANCE OF COURSE NUMBERS

I. Course Numbering and Availability

1. Courses numbered
   a. 100-199, inclusive, are primarily for freshmen;
   b. 200-299, inclusive, are primarily for sophomores;
   c. 300-399, inclusive, are primarily for juniors and seniors.
2. In general, students will be permitted to carry only courses numbered to correspond with their official classification. But, exceptions may be made, with the approval of curricular advisers, for such reasons as maturity, experience, necessity of meeting prerequisites to other courses, etc.

II. Explanation of Numbering
1. All consecutive, coherent courses are numbered similarly and lettered sequentially.
2. All fundamental, consecutive, coherent courses are numbered as follows:
   a. The number 100 is reserved for fundamental courses having no high school prerequisite.
   b. The number 101 is reserved for fundamental courses having as prerequisites one year (or fraction thereof) of high school work.
   c. The number 102 is reserved for fundamental courses having as prerequisites two years of high school work.
   d. The number 103 is reserved for fundamental courses having as prerequisites three years of high school work.
   e. The number 104 is reserved for fundamental courses having as prerequisites four years of high school work.
3. All other courses primarily intended for freshmen are numbered serially beginning with 105.
4. Prerequisites for all courses numbered 200-399, inclusive, may be found in the "Details of Departmental Courses" as printed in the current college catalog.
5. All consecutive courses are numbered sequentially.
6. Numbers 300-304 inclusive are reserved for courses which are offered in departments other than the Department of Education but which are given credit in education—the so-called "professional courses". To these numbers the letter "T" is added.
7. Courses offered as subdivisions of a given department are designated by numbers grouped by decades.
8. To the number of a course available by class extension there is added "Cl".
9. To the number of a course available by correspondence there is added "Co."

STANDARD FOR GRADUATION (HONOR POINTS)

The minimum number of honor points required of each student for graduation equals the number of four-term-hour subjects carried.

HONORS IN COURSE

Honors in Course are bestowed upon graduating students who have displayed special attainments in scholarship. Such honors are announced at a special convocation.

Recipients of honors receive their degrees:

Cum Laude .................. when having a point-hour ratio of 2.5 to 2.69
Magna Cum Laude ............. when having a point-hour ratio of 2.7 to 2.89
Summa Cum Laude ............ when having a point-hour ratio of 2.9 to 3.0

THE HONORS PRIVILEGE

In order to recognize the able student's capacity for independent achievement, Western State Teachers College has put into operation a plan whereby independent work, under certain conditions, may be rewarded with both rec-
ognition and scholastic credit. The plan, as approved by the Faculty and put into operation by the Administration, is explained in detail as follows:

The Western State Teachers College Plan for Student Honors Work

1. To the occasional junior or senior student who shows unusual intelligence and ability Western State Teachers College will grant the opportunity of following through a project of independent study or activity apart from, and in addition to, the regular courses of the curriculum. Such opportunity shall be known as an "Honors Privilege."

An Honors Privilege shall be defined as "any unit of study or activity carried on by a junior or senior student under the guidance of an instructor and with the administrative cognizance and approval of the Honors Privilege Committee."

2. The Honors Privilege Committee, in whose hands the administration of all Honors Privileges is to be placed, shall be composed of five members of the faculty, chosen by the President.

3. The request for an Honors Privilege may be made to the Honors Privilege Committee by any faculty member who has in mind a worthy student and an appropriate program of study or other activity for him to pursue. If the Honors Privilege is granted, the student's work will go forward under the teaching guidance of the instructor immediately involved.

4. At the time of the application for the Honors Privilege the faculty member and the student should present to the Honors Privilege Committee a statement of the program of study or other activity which it is proposed that the student shall follow. The Honors Privilege Committee will, at the time of its first examination of the suggested project, consult with the instructor to determine the probable number of hours' credit which the College will feel justified in granting the student at the successful conclusion of the proposed task. The Committee will also attempt to determine, in conjunction with the instructor, the time the student should be expected to spend on the project, keeping in mind that one term's work under an Honors Privilege ought to earn four hours' credit, and no work under an Honors Privilege should require more than four hours' work a term or yield more than twelve hours' credit (three terms' work) altogether.

When the student has finished his task, the Committee acting with the instructor to review the student's accomplishment, may determine the worth of his work to deserve more or fewer hours of credit than were originally calculated. All credit earned under the Honors Privilege, whatever the department within which the work is done, shall be entered upon the student's record as "Honors Course 380 (381, 382) in Physics (or other department of instruction)" and the grade and the hours of credit recorded as for a regular course. Credit earned under an Honors Privilege will be counted as credit earned for an elective.

It is expected that the student will carry twelve hours of work in regular college courses each term while he is doing work under an Honors Privilege.

5. The types of study or other activity to be considered worthy of acceptance under an Honors Privilege are likely to be various and even unpredictable until they emerge. A student may be set to investigate some aspect of knowledge in detail, where a course could, of necessity, only touch upon it lightly. In some fields of knowledge there are unexplored corners that would offer the undergraduate opportunity for limited experimentation and research. Facts are always open to reinterpretation. Teaching techniques may be improved or new ones developed. Students with manual skills or verbal abilities might be given the chance to use their talents in some personal way—as artists or craftsmen. In any case the right of the student to receive credit for his activity shall be left to the instructor and the Honors Privilege
Committee. It is expected that one of the advantages of the Honors plan will be the flexibility and lack of machinery with which, through its Committee, it may be made to operate.

6. Although what constitutes the successful culmination of a project under the Honors Privilege is to be determined by the instructor and the Committee, it is expected that the final test of the student's achievement shall be the presentation of a report summarizing his activity, its purposes, methods, and results. The focus provided by such a report is considered valuable in that it requires the student to analyze and point up his accomplishment for the satisfaction of himself and the edification of others.

7. It shall be the business of the Honors Privilege Committee to entertain a statement of progress at least every four weeks. This statement should reveal how nearly in conformity to the outlined-plan each student's work, under the Privilege, is proceeding. This slight check-up is intended not only as a loosely-held administrative guide, but also as a way of making possible a change of plan, supposing the originally accepted program of student-activity should have shown itself to be taking an at-first-unsuspected course.

8. The purpose of the Honors Privilege is manifold: to help the able student attain to an added self-respect; to give him a sense of living in a world of larger dimensions than the college classroom; to prepare him somewhat for that independence and initiative which will be imposed upon him by study or by life; and to offer him some recognition from the institution for his special, personal promise.

SPECIAL FEATURES

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 80 to 83. Various departments offer courses dealing with the teaching of their particular subjects.

THE ALUMNI ASSOCIATION

The Western State Teachers College Alumni Association was organized June 19, 1906, by the graduates of the first two classes of the college. Thirty-two classes are now associated in the organization with a total membership of more than 14,000. The Alumni Secretary's office is in the Administration Building. In this office information regarding any alumnus or alumna may be obtained. The Kardex filing system is used; it affords an accurate method of referring to the alumni directory.

Each year headquarters are maintained at the Michigan Education Association meetings. Alumni of Western State Teachers College are urged to register and make use of the rooms reserved for this purpose. An annual invitation goes to graduates of Western State Teachers College to return to the campus for Homecoming Day. A reception for the alumni is held annually at Commencement time.

Graduates of Western State Teachers College receive frequent mail from the campus informing them about various matters of interest. Letters of inquiry concerning graduates, who are placed in all parts of the United States and in foreign countries, are given prompt attention. Once each year the members of the alumni are asked to return a postal-card which is prepared and sent to them, to verify the records and secure additional facts in regard to schooling, degrees, marriage, children, books and magazine articles.
published, business records, etc. The returned cards are filed with the Kardex entry and replaced annually, when the most recent card arrives.

Although the number of Western's graduates has become very large, ways and means of cultivating closer and more friendly relations among them are being rapidly developed. Unit organizations are encouraged in localities where there are enough members of the alumni to warrant such organizations. The alumni secretary is glad to assist in any plans of this kind.

**ART COLLECTION**

Through the courtesy of the family of the late Hon. Albert M. Todd, an interesting collection of pictures and fine porcelains gathered by Mr. Todd through many years is on exhibition in the Library Building. From time to time, some of the rare books of the Todd collection are loaned for exhibits.

**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 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 relative 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 college; it will send representatives to visit schools and school systems that wish to begin testing work to instruct the teachers, to demonstrate the methods of testing, and actually to conduct mental-educational surveys.

**THE COLLEGE CO-OPERATIVE STORE**

The Co-operative Store not only serves as a convenience to people on the campus, but also furnishes employment for a number of worthy students. Every effort is made to keep adequate stocks of all supplies needed by students for class work.

**COUNTY COMMISSIONERS' SUMMER CONFERENCE**

Each year a conference of the county school commissioners of Southwestern Michigan is called during the early part of the summer term to consider their professional problems. These conferences usually include reports of progress by the different commissioners and by representatives of the State Department of Public Instruction, supplemented by addresses by one or more speakers of national reputation. These meetings give commissioners an excellent opportunity to meet the teachers from their counties in attendance at the summer session.

**CREDIT FOR BAND, GLEE CLUB, AND ORCHESTRA WORK**

1. A maximum of three term hours of academic credit annually is given for one year's regular participation in each of the following activities: Band, Glee Club, Orchestra, and Auxiliary Choir.

2. Twelve term hours of academic credit is the maximum allowed for participation in any one of the four activities indicated.
3. A grand total of not to exceed eighteen term hours of academic credit is allowed for participation in the four activities noted.

4. Participation in Band may be substituted for physical-education credit. In such cases participation in the Band for one term is substituted for one class hour in physical education. (A class hour is to be interpreted to mean one hour of class work for one term.)

EXTENSION DEPARTMENT

Through the Extension Department 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 resident credit earned during a regular term or a summer session is accepted on the certificate and degree-curricula requirements.

All instruction is given by members of the regular faculty in classes which meet at frequent intervals at centers within range of the college, or by means of carefully organized courses offered by correspondence. As far as possible, courses are equivalent to corresponding resident courses.

Resident and extension work are not to be carried simultaneously.

A person is not to enroll for extension work with Western State Teachers College if he is carrying work with any other educational institution.

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, Mich.

HEALTH SERVICE

The aim of the Health Service is two fold: health education (an appreciation of maximal health with an understanding of the measures which help to maintain it) and a cooperative effort to guard the health of the students.

Prefacing this cooperation each student should enter college physically as well equipped for it as possible with all obvious remedial defects corrected: teeth in good repair; eyes fitted with glasses, if glasses are needed; menacing tonsils removed or under observation, etc. Further, the budget to meet college needs should include a fund available for unexpected illness or accident which might threaten college success.

A health fee of fifty cents a term, paid upon enrollment, entitles the student to the following cooperative efforts:

1. Medical examinations and conferences
2. Dental examinations and conferences
3. Consideration (and often care) of emergencies
4. Consultory service for student problems
5. Scheduled skin clinics
6. Hospitalization at rates especially advantageous.
7. Laboratory services and clinical tests to determine disease
8. Reports to home physicians and dentists

It is most important that each student completing college be in as perfect health as possible. The position to which he goes expects it.

THE HERALD

The Teachers College Herald, the official weekly publication of the college, is issued each Wednesday. It chronicles the important activities of the college. From time to time, special numbers are issued. Every student and faculty member is entitled to a copy weekly. The alumni give the paper cordial support.
KLEINSTUECK WILD LIFE PRESERVE

In 1922, the late Mrs. Caroline Hubbard Kleinstueck deeded to the State Board of Education nearly fifty acres, including woodland, grassland, and a lake, about one mile from the campus, to be used as a wild-life preserve. The preserve is freely used by classes and student groups for instructional and recreational purposes.

Projects in forestry are being maintained on the area. Twelve thousand trees were planted one arbor day, and frequent plantings of trees and shrubs have been made since.

The nature-study classes raise pheasants to plant in the preserve, and they have made several nature trails to increase the pleasure of the public who may enjoy walking through the preserve.

LECTURES, ENTERTAINMENTS, EXCURSIONS, CONFERENCES

During the summer session, lectures, travelogues, round-table discussions, and conferences with different faculty members and guest speakers will be held, usually in the late afternoon, and will be open to all who are 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, evening parties, and afternoon teas are social features of former summer sessions to be repeated in 1938. Announcement of each event will be made in the Teachers College Herald.

ORCHESTRA

An orchestra will be organized for the purpose of giving students an opportunity for further development on their chosen instruments, and for becoming familiar with orchestral works suited to the needs of public school orchestras. Those with a reasonable amount of training and experience will be admitted.

Many of the unusual instruments owned by the college are at the disposal of students.

PLACEMENT BUREAU

The Placement Bureau aids graduating students and alumni of Western State Teachers College in securing suitable positions. It seeks at the same time to serve the best interests of superintendents of the state who desire to secure teachers adapted to the needs of their schools. A Placement Committee, consisting of the Director of the Training Schools and members of the faculty who are in a position to know intimately the records of students in class work, directed teaching, and general school activities, assists in the work of the bureau.

Each term all graduating students enroll with the Placement Bureau, filling out appropriate blanks and receiving information and instructions relative to securing positions. Full records are kept on file in the Placement Office. These consist of (1) the student's academic record, (2) the recommendations of at least three faculty members who are familiar with the student's work, (3) a departmental recommendation, (4) the report from the supervisor of the student's directed teaching, (5) a record of his previous teaching experience, if any, and (6) the general rating of the Placement Committee. The records also include ability and personality ratings and photographs. Copies of these records are sent out upon application to superintendents of schools or can be consulted by them when they visit the Placement Bureau.

It is preferable that superintendents select teachers as a result of personal interviews with candidates suggested by the committee, but vacancies may be filled satisfactorily through correspondence.
The Bureau likewise aims to afford equally satisfactory replacement service to former graduates qualified for better positions. For superintendents who desire to fill positions requiring a greater degree of maturity and experience, a complete file is kept of alumni, including records of their current teaching experience and advanced study in other institutions. Each year a large number of former graduates are placed in more responsible positions, and in superintendencies of larger school systems.

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

All students are advised to enroll with the Placement Bureau before graduation, whether or not they desire help in securing teaching positions at that time.

**PSYCHO-EDUCATIONAL CLINIC**

The object of clinical service at Western State Teachers College is to provide psychological service for normal and maladjusted children and adults, centering not only upon diagnosis but upon the suggestion of remedial measures as well. It is the plan of the clinic, whose laboratory is equipped with modern psychological apparatus, to train a limited number of competent students to deal with psycho-educational problems involving educational, social, and emotional maladjustment. The personnel cooperating in these studies of maladjustment consists of a director and two associates, members of the Health Service, members of the Speech Clinic, and local psychiatrists, pediatricians, and ophthalmologists. The psycho-educational clinic at Western State Teachers College is affiliated with the W. K. Kellogg Foundation, is a member of the Council of Social Agencies, and cooperates with the Kalamazoo State Hospital, the Civic League, the Kalamazoo Emergency Relief Association, and the Kalamazoo County Agent. The average case load each month has consisted of approximately thirty clinical, advisory, and classification problems. Approximately 34 per cent of these cases are referred by social and relief agencies in Michigan, 35 per cent by school authorities, 18 per cent by parents and relatives, 10 per cent by other persons and organizations, and 3 per cent by private physicians.

**PHYSICAL EDUCATION**

The departments of Physical Education sponsor a wide and varied program of activities. Participation is encouraged in those recreational sports that are likely to be followed when college days are over, as well as in the types of activities particularly interesting to the college student.

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

**RECREATIONAL LEADERSHIP**

The Department of Physical Education for Men offers each summer a course in Playground and Community Recreation. This course is organized to give the student not only the organization phase of the work but some practical experience. Each student is required to do a limited amount of work on the city playgrounds.

**RECREATIONAL OPPORTUNITIES**

Kalamazoo, in the heart of the southwestern Michigan glacial-lake country, offers numerous opportunities for diversion: picnicking on the wooded hillsides and the shores of the numerous accessible lakes, swimming, and boating
are popular pastimes. Students are given free instruction in tennis on the ten campus courts. The city golf links are within one mile of the campus; bus service to them is frequent. Summer students may have the use of the links by payment of the customary greens 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 the mutual acquaintance of faculty and students.

RURAL EDUCATION

To students of education with initiative, ingenuity, and resourcefulness, no positions afford a greater challenge than do those of the rural schools. In these schools, on every hand, there is available an abundance of educative materials and experiences offering ideal learning situations where progressive methods can be used naturally. Modern schools the world over are choosing, where feasible, rural settings, because of the rich potentialities of the environment. The one-teacher school, with its cross-age grouping of children, in which flexibility, rather than the formal rigidity of grades, may most easily prevail, affords ideal possibilities for the activity program and other progressive educational methods and procedures. Both within the school room and in the relation of the school to the parents and to the community at large, the potential educational leadership of the rural teacher is determined primarily by his own limits of time and ability.

Students of rural life and education accept the United States Census Bureau classification of rural as communities in the open country and centers of less than 2,500 in population. Half of the 30,000,000 young people in the United States of school age—five to seventeen—live in rural areas; 36% of those in Michigan live in rural areas. The rural schools of Michigan—one-teacher, consolidated, and village—include 33% of the children and 43% of the teachers of the state. Approximately 88% of the schools of Michigan are rural; 5,957 are one-teacher schools. At present the State Department of Public Instruction estimates the demand for new teachers in the latter schools to be 900 per year, which greatly exceeds the number graduating annually from the rural curricula of the state teachers' colleges.

Within the state, concern over the shortage of rural teachers has been so great that within the past two years there has been a decided upward trend in salaries for rural teachers. The State offers scholarships of tuition to recommended students for two years of work in the rural curricula of the state teachers colleges.

Openings in the field of rural education are not limited to those of the classroom in the high schools, consolidated, and one-teacher elementary schools. County commissioners of schools, principals, superintendents, and supervisors, trained in rural life and education, can thereby the more adequately fulfill their obligations and opportunities. Two four-year rural curricula, an elementary and a high school, are offered in Western State Teachers College for the preparation of teachers and of supervisory and administrative officers for the demands peculiar to rural schools and rural communities. The two-year rural elementary curriculum, the only two-year curriculum offered in the college, affords two years of credit which, without penalty, may later be applied to the four-year rural—or practically any other—curricula. In addition to the courses in rural school practices and administration, rural sociology and economics, practice teaching in the Hurd one-teacher school and the Portage and Richland Consolidated Schools are afforded students in the rural curricula. Affiliation with six typical one-teacher schools—three in Kalamazoo County and three in Van Buren County—furnishes additional laboratory opportunities for advanced students interested in administration and supervision.

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

For the most able prospective teachers, there is a certain demand and
opportunity for unlimited service and leadership in the rural schools of
Michigan.

TRAINING SCHOOL FACILITIES

The Campus Training School will be operated for the summer session. The
kindergarten and grades one to eight inclusive will be open from 9:00 to 12:00
A. M. in charge of regular grade and special supervisors. A limited amount
of directed teaching will be offered for students not in residence during other
terms, who can thus complete the work for a life certificate. Three grades
will be designated as demonstration rooms for observation and discussion
courses. A few directed teaching assignments will be made in the city sum-
mer schools in junior-high classes and in the later-elementary grades. Application
for enrollment for directed teaching should be made to the Director of
the Training School well in advance of the opening of the summer session.
DETAILS OF CURRICULA

GENERAL REGULATIONS

(Operative through June 30, 1939.)

In studying the following details with regard to the general and specific requirements for degrees and certificates, the reader should keep these facts in mind:

1. The outline of requirements for the degrees and the life certificate on a four-year basis are in accord with a ruling of the State Board of Education, requiring that students who do not present at least eight term hours of acceptable college credit earned before June 20, 1932, must present 192 term hours of credit for a life certificate.

2. A two-year curriculum leading to a State Limited certificate in rural elementary education is provided. This curriculum is set up in such a way as to conform to the program of work outlined for all regular students during the first two years in college.

3. The following statement, approved and adopted by the State Board of Education under date of April 27, 1934, outlines in detail the nature of the curricula in the state teachers colleges of Michigan and the minimum requirements which must be satisfied by the student who would obtain a degree and life certificate in this or any other state teachers college of Michigan.

PURPOSE AND CONTROL OF MICHIGAN STATE TEACHERS COLLEGE

The Constitution of the State of Michigan [Act XI, Sec. 10] places the State Teachers Colleges under the authority of the State Board of Education subject to such regulations as may be prescribed by Legislature. In 1903 [Public Acts 203] the Legislature decreed: "The State Board of Education is hereby authorized and required to prescribe the courses of study for students, to grant such diplomas and degrees and issue such licenses and certificates to the graduates of the several normal schools of the state as said State Board of Education shall determine."

From time to time the Legislature has also defined the objectives and scope of work of the Teachers Colleges. It has repeatedly declared that the purpose of these institutions "shall be the instruction of persons in the art of teaching and in all the various branches pertaining to the public schools of the state of Michigan" [Act 139, P. A. 1850; Act 192, P. A. 1889; Act 51, P. A. 1889].

"In the course of a century the public school system has developed from the meager rudiments which satisfied a frontier society to the enlarged and complex organization which attempts to meet the needs of a day which faces the solution of social, political, and economic problems of fundamental significance. Only honest, intelligent, and well-informed citizens can cope with such problems, and such citizens it is the first duty of our public schools to produce. Only honest, intelligent, well-educated, and devoted teachers are adequate to meet these enlarged duties and responsibilities—the day of the mere school-keeper is gone. The problem of training such teachers has increased in scope and complexity, but to meet these problems the State Board of Education and the faculties of the teachers colleges have constantly applied themselves, keeping in mind always the two purposes which, since the founding of the State, have been sustained not only by legislative authority, but which have the sanction of all educational experience as well. Hence the Michigan State Teachers Colleges have always stood and do now stand for two things paramount and inseparable in an institution for the training of teachers:

1. A thorough grounding in such fields of study as may lead to the intellectual growth of the student.

2. A thorough grounding in the science and art of teaching attained by sufficient actual teaching under direction."
Objectives and General Scope of Curricula

"The program of study outlined for the first two years in the curricula of the Michigan State Teachers Colleges is organized to serve, among others, the following purposes:

1. To provide the student with essential factual information; to give him an introduction to methods of thought and work and to provide such opportunities for study and growth as may lead to a well-rounded general education.

2. To prepare the student for undertaking the more advanced and specialized work embraced in the curricula of the third and fourth years of the Teachers Colleges or for more advanced work elsewhere.

"The program for the first two years represents ninety-six term hours, at least half of which must fall in Groups I, II, III. The student must complete the first year at least nine term hours of English Composition and at least twenty-four term hours from Groups I, II, III. The program for the third and fourth years is designed to enable the student

1. To pursue more extensively and intensively courses which acquaint him with fields of his special interest and which broaden his general education.

2. To pursue a curriculum which will give him the knowledge and skills necessary for teaching in a certain field.

"Admission to the program of the third and fourth years shall be based upon the satisfactory completion of ninety-six term hours under the requirements already described or upon evidence of equivalent work done elsewhere. In addition the student must satisfy such special tests or examinations as may be prescribed to determine general intelligence, scholastic aptitude, or fitness for the teaching profession.

SUBJECT GROUPINGS

The regulations governing certification in Michigan employ subject groupings as follows:

Group I. Language and Literature
- Ancient Language and Literature
- English Language and Literature
- Modern Language and Literature
- Certain courses as indicated in the Department of Speech

Group II. Science
- Agriculture; Astronomy; Anatomy; Biology; Botany; Chemistry; Geography; Geology; Hygiene; Mathematics; Nature Study; Physics; Physiology; Psychology; Zoology.

Group III. Social Science
- Economics; History; Philosophy; Political Science; Sociology

Group IV. Education
- Education (Includes methods courses and directed teaching)

Group V. Fine Arts
- Arts; Music

Group VI. Practical Arts
- Agriculture; Commerce; Home Economics; Industrial Arts

Group VII. Physical Education and Health
- Health; Physical Education
DEGREES AND CERTIFICATES

Degree Requirements

"Any curriculum leading to the Bachelor's degree shall consist of at least 192 term hours of credit and must include:

Group I .................................................. at least 20 term hours
Group II .................................................. at least 20 term hours
Group III .................................................. at least 20 term hours
Group IV .................................................. at least 24 term hours
English Composition ...................................... at least 9 term hours

The remaining term hours may be selected from the courses regularly offered by the college, subject to the following restrictions:
1. Not more than 64 term hours may be taken in any one subject.
2. At least two-thirds of the work beyond the second year must be in courses not open to first year students.
3. The student must complete a major subject of at least 36 term hours and at least one minor subject of not less than 24 term hours. (See pages 73, 74.) Credits in the required English composition and credits in Education which are required in general on all curricula do not count toward majors and minors.
4. No candidate shall be eligible for the Bachelor's degree who has not done at least 48 term hours of work in residence and who has not been in residence during the term immediately preceding graduation. (An exception is made in the combined pre-professional curricula, pages 68, 69.)
5. Courses must be selected so that the requirements in some one of the life certificate curricula are fulfilled. (In certain cases this requirement may be waived.)

REQUIREMENTS FOR GRADUATION

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.

Graduation fees must be paid, and applications for degrees and certificates must be filed with the registrar before the end of the third week of 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 and the degree of Bachelor of Science.

2. The State Elementary Provisional Certificate which qualifies the holder to teach for a period of five years from date of issue in the elementary grades (Kindergarten to eighth) in any public school in Michigan. (See Notes 1 and 2.) The State Secondary Provisional Certificate which qualifies the holder to teach for a period of five years from date of issue in the secondary grades (seventh to twelfth) in any public school in Michigan, in subjects or subject fields indicated on the certificate. (See Notes 3 and 4.)

3. The State Limited Certificate which qualifies the holder to teach in the State of Michigan for a period of three years from date of issue in any primary school district or in any graded school district not maintaining grades above the eighth. (See Note 6.)
Note 1.— The holder of the State Elementary Provisional Certificate may be issued the State Elementary Permanent Certificate upon meeting the following conditions:

(a) Application must be made to the college within one year following the expiration of the State Elementary Provisional Certificate.

(b) The candidate must submit satisfactory evidence that he has taught successfully during the life of the certificate for not less than three years in elementary schools in the state of Michigan.

Note 2.— The holder of a State Elementary Provisional Certificate or of a State Elementary Permanent Certificate may qualify for a State Secondary Provisional Certificate by meeting the following additional minimum requirements.

(a) Completion of at least six additional semester hours (eight term hours), specifically in the field of secondary education. These additional hours must be completed after the date of issue of the elementary provisional certificate. (Applicants who have completed a program leading to a Master's degree, and who have met the specific requirements for the State Elementary Provisional Certificate and the Provisional Secondary Certificate may be granted both certificates.)

(b) Completion of one major of 24 semester hours (36 term hours).

(c) The training institution shall appraise the credentials of the candidate, recommend specific subjects, and obtain the approval of the Director of Teacher Training and Certification before the candidate enrolls.

Note 3.— The holder of the State Secondary Provisional Certificate may be issued the State Secondary Permanent Certificate provided the candidate shall have met the following conditions:

(a) Application must be made to the college within one year following the expiration of the State Secondary Provisional Certificate.

(b) The candidate must submit satisfactory evidence that he has taught successfully during the life of the certificate for not less than three years in secondary schools in the state of Michigan.

(c) The candidate must have earned in addition fifteen term hours of acceptable resident college credit.

Note 4.— The holder of a State Secondary Provisional Certificate or of a State Secondary Permanent Certificate may qualify for a State Elementary Provisional Certificate by meeting the following minimum requirements:

(a) Completion of at least six additional semester hours (8 term hours), specifically in the field of elementary education. These additional hours must be completed after the date of issue of the State Secondary Provisional Certificate. (Applicants who have completed a program leading to a Master's degree, and who have met the specific requirements for the State Provisional Elementary Certificate and the State Provisional Secondary Certificate may be granted both certificates.)

(b) The academic training shall include four minors, or a major (which may be a group major) and two minors; the equiv-
alent of two minors must be in subjects or subject fields taught in the elementary grades.

(c) The training institution shall appraise the credentials of the candidate, recommend specific subjects, and obtain the approval of the Director of Teacher Training and Certification before the candidate enrolls.

Note 5.— Special Curricula Leading to Both Elementary and Secondary Certificates.

Applicants who graduate from specific four-year curricula, such as fine arts, industrial arts, library science, music, physical education, public health, etc., shall be granted certificates to teach in elementary and secondary grades when the candidate qualifies in both fields.

Note 6.— The holder of a State Limited Certificate may receive (five times) a State Limited Renewal Certificate provided the candidate shall have met the following conditions:

(a) Application must be made to the college within one year following the expiration of the Provisional Limited Certificate.

(b) The candidate must have earned in addition sixteen term hours of acceptable college credit since the date of issue of the last certificate held. Not less than eight term hours must be earned in residence; not to exceed four term hours may be in correspondence credit. All credits submitted must satisfy the requirements of the curriculum for the State Provisional Certificate.

(c) If the candidate for the State Limited Certificate shall have entered from a Michigan state teachers college or from the College of Education, Wayne University, Detroit, with at least twenty-four term hours of acceptable resident credit there earned, twenty-four term hours shall satisfy the residence requirement at this institution.

(d) If the candidate for the State Limited Certificate shall have entered as a graduate from a Michigan county normal school, he shall complete in residence in this institution at least 48 term hours.

Note 7.— 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:

(a) Toward the Provisional Certificate, 40 term hours;

(b) Toward the State Limited Certificate, 40 term hours.

COUNTY NORMAL CREDITS ORDINARILY ACCEPTED

(Effective July 1, 1937)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Composition</td>
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<tr>
<td>Literature for Children</td>
<td>4</td>
</tr>
<tr>
<td>Introductory Science (Nature Study)</td>
<td>4</td>
</tr>
<tr>
<td>Geography</td>
<td>4</td>
</tr>
<tr>
<td>General Psychology</td>
<td>4</td>
</tr>
<tr>
<td>Arithmetic</td>
<td>4</td>
</tr>
<tr>
<td>Introductory Social Science (Citizenship)</td>
<td>4</td>
</tr>
<tr>
<td>Principles of Teaching</td>
<td>4</td>
</tr>
<tr>
<td>Psychology of Reading</td>
<td>4</td>
</tr>
<tr>
<td>Directed Teaching</td>
<td>4</td>
</tr>
</tbody>
</table>

Total: 40 term hours
Note 8.— Not more than one-fourth of the number of hours necessary for any certificate or degree may be taken in extension or by correspondence or both. Such credit, however, cannot be applied to modify the minimum or final residence requirements.

Academic and Residence Requirements for Degrees and Certificates

1. For the Bachelor's Degree the candidate shall—
   a. present credits satisfying a prescribed curriculum aggregating 192 term hours;
   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 provisional certificate. (In certain cases this requirement may be waived.)

2. For the State Elementary Provisional Certificate the candidate shall—
   a. present credits satisfying a prescribed curriculum aggregating 192 term hours;
   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 Bachelor's Degree.

3. For the State Secondary Provisional Certificate the candidate shall—
   a. present credits satisfying a prescribed curriculum aggregating 192 term hours;
   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 Bachelor's Degree.

4. For the State Limited Certificate the candidate shall—
   a. present credits satisfying a prescribed curriculum aggregating 96 term hours;
   b. have satisfactorily completed in residence in this institution 32 term hours;
   c. have been in residence in this institution the term immediately preceding graduation.

IMPORTANT REGULATIONS GOVERNING CERTIFICATION

After June 30, 1938, the Five Year Certificate previously issued on the completion of the two-year curriculum will no longer be issued. Persons who complete the prescribed two-year curriculum may be granted the State Limited Certificate.

After June 30, 1939, no Life Certificate will be issued. Persons who complete a prescribed four-year curriculum may be granted the Elementary or the Secondary Provisional Certificate.

More complete information concerning the several teachers' certificates may be obtained from Bulletin No. 601, Teachers Certification Code, published by the Superintendent of Public Instruction, Lansing, Michigan.

Degrees Defined

BACHELOR OF ARTS

The student who regularly completes a curriculum conforming to the degree requirements and embracing at least 144 term hours from Groups I, II, and
DEGREES AND CERTIFICATES

III, including at least 12 term hours in one foreign language, is eligible for the degree of Bachelor of Arts. If two or more units of one foreign language are presented for entrance, the requirements for foreign language may be waived.

BACHELOR OF SCIENCE

1. The student who regularly completes a curriculum conforming to the degree requirements and embracing more than 48 term hours from Groups IV, V, VI, and VII, is eligible for the degree of Bachelor of Science.

2. The student who otherwise qualifies for the degree of Bachelor of Arts and who has earned at least 84 term hours in Group II may at his option receive the degree of Bachelor of Science instead of Bachelor of Arts.

SPECIAL NOTE

Students, who do not have in mind preparation for teaching, may elect basic courses which provide a general education or which satisfy preliminary requirements for other professional curricula. When such a program of work is carried on for four years and conforms to the degree requirements stated on pages 43 to 47 except the professional requirement in Group IV, the degree of Bachelor of Arts or Bachelor of Science may be granted without the life certificate.

Additional Regulations Governing Students at Western State Teachers College

1. All freshmen must carry Rhetoric 106 A, B, C.

2. At the end of the sophomore year women students must have had at least three terms of physical education and men students must have had at least eight class hours of physical education. All candidates for a degree must have obtained a credit in library methods and must have had five terms of physical education or its equivalent. (For men, a minimum of fourteen class hours). In their five terms of physical education, women must include one individual sport and one team sport.

3. In general, freshmen should not elect two courses in a single department in the same term. Upperclassmen should not elect more than nine term hours in a single department in the same term.

4. All students who expect to receive a degree must present at least 12 term hours of credit in rhetoric.

5. Not more than a total of 96 term hours of credit from Groups, IV, V, VI, and VII may be accepted for either the Bachelor of Arts or the Bachelor of Science degree.

6. Before being admitted to the regular program of work of the third year, a candidate for a teaching certificate shall have earned at least 12 term hours in each of the Groups I, II, and III. He shall have maintained at least a C average for work already completed and shall give evidence of his fitness for teaching.

7. To satisfy the minimum requirements in Groups I, II, and III, the student shall not present a series of isolated courses.

8. All students who are planning to pursue the program of work of the third and fourth years leading to certification are required to present a credit in General Psychology 200 or its equivalent. This course is not required in the General Degree curriculum. (See Special Note above.)

9. All students who expect to obtain a degree and teaching certificate are required to present credits in the following courses: Educational Psychology 250, A, B; Principles of Teaching 240 or 251; Foundations of Modern Education 353; Directed Teaching 371, 372.

10. A student will not be permitted to carry directed teaching if he is deficient in honor points.
THE CURRICULA

Programs of study in Western State Teachers College are planned in such a way as to prepare teachers for different departments in 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 programs of study as outlined, so that he may understand clearly the purpose of each. He should choose that program which seems best to fit his interests and abilities.

Specific details and requirements in the various fields of specialization are outlined on the following pages. All of the curricula detailed conform to the general requirements for degrees and certificates and, at the same time, indicate the courses which should be pursued by students preparing to teach in the fields described.

1. Degree and Life Certificate Curricula

<table>
<thead>
<tr>
<th>Program</th>
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<tbody>
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<td>Art</td>
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<tr>
<td>Commerce</td>
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<td>Early Elementary</td>
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<td>Home Economics</td>
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<td>Industrial Arts</td>
<td>53</td>
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<td>Junior High School</td>
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<tr>
<td>Later Elementary</td>
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<tr>
<td>Music</td>
<td>56</td>
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<tr>
<td>Physical Education for Men</td>
<td>57</td>
</tr>
<tr>
<td>Physical Education for Women</td>
<td>58</td>
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<tr>
<td>Rural Elementary</td>
<td>59</td>
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<tr>
<td>Rural High School</td>
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<tr>
<td>Senior High School</td>
<td>62</td>
</tr>
<tr>
<td>Special Education</td>
<td>63, 64, 65</td>
</tr>
</tbody>
</table>

2. Specific details for the two-year curriculum leading to a Three-Year Certificate in Rural Elementary Education are outlined on page 60.
ART CURRICULUM

B.S. Degree

(For the preparation of teachers and supervisors of art)

Group I. Language and Literature .................................................. 20 term hours
Rhetoric (in addition) ................................................................. 12 term hours

Group II. Science ................................................................. 20 term hours
General Psychology 200 (in addition) ........................................... 5 term hours

Group III. Social Science ...................................................... 20 term hours
Including four terms of political science

Group IV. Education
Educational Psychology 250 A, B .................................................. 6 term hours
Principles of Teaching 251 ........................................................... 3 term hours
Foundations of Modern Education 353 .......................................... 4 term hours
Art Observation 300 T ................................................................. 4 term hours
Art Supervision 302 T ................................................................. 4 term hours
Directed Teaching 371, 372, 373 .................................................... 12 term hours

Group V. Fine Arts
Art Structure 106 ................................................................. 4 term hours
Industrial Art 110 ................................................................. 4 term hours
Elementary Design 105 ............................................................... 4 term hours
Figure Drawing 205 ............................................................... 4 term hours
Art Composition 208 ............................................................... 4 term hours
History of Art 213 A, B ........................................................... 8 term hours
Demonstration Drawing 301 T .................................................. 4 term hours
Commercial Art 214 ............................................................... 4 term hours
Advanced Design 309 ............................................................... 4 term hours
Advanced Figure Drawing 305 .................................................. 4 term hours
Advanced Art Composition 308 .................................................. 4 term hours
Art electives ................................................................. 16 term hours

Group VII. Physical Education and Health
Physical education: Women are required to take five terms including one individual sport and one team sport. Men are
required to take a minimum of fourteen class hours. (A class
hour is to be interpreted to mean one hour of class work for
one term.)

Electives (not in art) .................................................. 18 term hours

Note.—A course in library methods is required.
COMMERCE CURRICULUM

B. S. Degree

(For the preparation of teachers of commerce and economics. Students interested in general business administration are advised to consult the General Degree curriculum, page 66, and the Pre-Professional Business Administration suggestions on page 67).

Group I. Language and Literature ......................................... 20 term hours
Rhetoric (in addition) ......................................................... 12 term hours

Group II. Science
Biology, botany, chemistry, geology, physics, zoology .................. 12 term hours
Mathematics 100A, B, C; or 103A, B, C; or 104A, B, C .................. 12-15 term hours
General Psychology 200 ..................................................... 5 term hours

Group III. Social Science
Principles of Economics 220A, B .......................................... 8 term hours
Electives in Economics ...................................................... 16 term hours
Survey of American Government 334 .................................... 4 term hours

Group IV. Education
Educational Psychology 250A, B ........................................... 6 term hours
Principles of Teaching 251 ................................................ 3 term hours
Foundations of Modern Education 353 .................................. 4 term hours
Principles of Commercial Education 303T ................................ 3 term hours
Directed Teaching 371, 372, 373 ........................................ 12 term hours
Teaching of Shorthand and Typewriting 300T ................................ 2 term hours
Teaching of Bookkeeping and Office Machines 301T .................... 2 term hours
Teaching of Social-Business Subjects 302T .............................. 2 term hours

Group VI. Practical Arts
Introduction to Business 110 ............................................. 3 term hours
Retail Selling and Store Service 330 ................................... 3 term hours
A combination of 1, 2, and 4 or a combination of 2, 3, and 4 from the following:

(1) Shorthand and Typewriting 100A, B, C ............................ 12 term hours
(2) Accounting 210 A, B, C, and 312 ................................ 15 term hours
(3) Accounting 310, 311 ................................................ 8 term hours
(4) Business Law 320 A, B, C ........................................ 9 term hours

Group VII. Physical Education and Health
Physical education: Women are required to take five terms, including one individual sport and one team sport. Men are required to take fourteen class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)

Electives ................................................................. 24-31 term hours

Note.—A course in library methods is required.
EARLY ELEMENTARY CURRICULUM

B.S. Degree

(For the preparation of teachers of the Kindergarten and of Grades 1 and 2)

Group I. Language and Literature ........................................ 20 term hours
    Rhetoric (in addition) .................................................. 12 term hours
    Fundamentals of Speech 105A, B (in addition) ....................... 8 term hours

Group II. Science ............................................................ 20 term hours
    Nature Study 231 (in addition) ....................................... 4 term hours
    General Psychology 200 (in addition) ................................ 5 term hours

Group III. Social Science .................................................. 20 term hours
    Including four term hours of political science

Group IV. Education
    Educational Psychology 250A, B ........................................ 6 term hours
    Principles of Teaching 251 ............................................. 3 term hours
    Psychology of Reading 212 ............................................. 4 term hours
    Foundations of Modern Education 353 ................................ 4 term hours
    Early Elementary Education 200, 305A, B ............................ 11 term hours
    Stories for Childhood 208 ............................................. 4 term hours
    Psychology of Childhood 306 ........................................... 4 term hours
    Teaching of Handwriting 100 .......................................... 2 term hours
    Directed Teaching 371, 372, 373 ..................................... 12 term hours
    One of the following:
    Early Elementary School Problems 307
    Parent Education 308
    Nursery School Education 309 ......................................... 3 term hours

Group V. Fine Arts
    Art Structure 106 ....................................................... 4 term hours
    Illustrative Handwork 107 ............................................. 4 term hours
    Early Elementary Music 104 ............................................ 4 term hours

Group VII. Physical Education and Health
    Physical education: Women are required to take five terms,
    including one individual sport, one team sport, and Early
    Elementary Physical Education 330.

Electives ................................................................. 38 term hours

Note.—1. A course in library methods is required.

2. The academic training shall include four minors, or a major (which may be a group major) and two minors. The equivalent of two minors must be in subjects or subject fields taught in the elementary grades.
HOME ECONOMICS CURRICULUM

B.S. Degree

Group I. Language and Literature ........................................... 20 term hours
Rhetoric (in addition) ..................................................... 12 term hours

Group II. Science
Chemistry 105A, B, C .................................................... 12 term hours
Biology 100A, B ............................................................ 8 term hours
Household Physics 202 ................................................... 2 term hours
General Psychology 200 ................................................... 5 term hours

Group III. Social Science
Economics of Consumption 223 ............................................ 4 term hours
Principles of Sociology 241A ............................................. 4 term hours
Electives, including four term hours of political science ........... 12 term hours

Group IV. Education
Educational Psychology 250A, B .......................................... 6 term hours
Principles of Teaching 251 ................................................ 3 term hours
Foundations of Modern Education 333 ................................ 4 term hours
Teaching of Home Economics 300T ...................................... 4 term hours
Problems in Home Economics Education 301T ......................... 4 term hours
Directed Teaching 371, 372, 373 ....................................... 12 term hours

Group V. Fine Arts
Elementary Design 105 ..................................................... 4 term hours
Costume Design 109 ........................................................ 4 term hours
Home Furnishings 221 ...................................................... 4 term hours

Group VI. Practical Arts
Introductory Home Economics 100 ...................................... 2 term hours
Introductory Home Economics 110 ...................................... 2 term hours
Textiles 103 .......................................................................... 2 term hours
Clothing 105 ......................................................................... 3 term hours
Foods 111 ............................................................................... 4 term hours
Clothing 205 ......................................................................... 4 term hours
Nutrition 210 ......................................................................... 4 term hours
Advanced Foods and Cookery 310 ........................................ 4 term hours
Home Management 330 ...................................................... 4 term hours
Home Nursing 331 .................................................................. 3 term hours
Home Management Practice 333 ......................................... 4 term hours
Family Relations 335 .......................................................... 2 term hours
Child Care 337 ...................................................................... 3 term hours
Consumer Buying 339 ......................................................... 4 term hours
Optional in home economics or related subjects .................... 8 term hours

Group VII. Physical Education and Health
Physical education: Women are required to take five terms,
including one individual sport and one team sport.

Electives ............................................................................... 15 term hours

Note.—A course in library methods is required.
INDUSTRIAL ARTS CURRICULUM
B.S. Degree

(For the preparation of teachers and supervisors of industrial arts)

<table>
<thead>
<tr>
<th>Group I. Language and Literature</th>
<th>20 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric (in addition)</td>
<td>12 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group II. Science</th>
<th>20 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Psychology 200 (in addition)</td>
<td>5 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group III. Social Science</th>
<th>20 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Including four term hours of political science</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group IV. Education</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Psychology 250A, B</td>
<td>6 term hours</td>
</tr>
<tr>
<td>Principles of Teaching 251</td>
<td>3 term hours</td>
</tr>
<tr>
<td>Foundations of Modern Education 353</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Teaching of Industrial Arts 301T</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Vocational Education 230A</td>
<td>3 term hours</td>
</tr>
<tr>
<td>Directed Teaching 371, 372, 373</td>
<td>12 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group V. Fine Arts</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Structure 106</td>
<td>4 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group VI. Practical Arts</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Printing 140A</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Mechanical Drawing 121A, B</td>
<td>8 term hours</td>
</tr>
<tr>
<td>General Shop 212</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Advanced Benchwork 106</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Woodfinishing 207</td>
<td>4 term hours</td>
</tr>
<tr>
<td>General Metal 130A, Machine Shop 234A, or Auto Mechanics 235A</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Shop Organization 300T</td>
<td>2 term hours</td>
</tr>
<tr>
<td>Electives in industrial arts</td>
<td>34 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group VII. Physical Education and Health</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education: Men are required to take a minimum of fourteen class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)</td>
<td></td>
</tr>
</tbody>
</table>

Electives (not in industrial arts) .................................................................. 15 term hours

Note.—1. A course in library methods is required.

2. Students who enter without high-school physics must elect Introduction to Physics 105 A, B.

3. Ordinarily students will be required to take Applied Mathematics 112 and Electricity 160. Those who elect a year of college Physics are not required to take either Applied Mathematics 112 or Electricity 160. Those who elect a year of college Mathematics are not required to take Applied Mathematics 112.
## JUNIOR HIGH SCHOOL CURRICULUM

**A.B. or B.S. Degree**

*(For the preparation of teachers of Grades 7, 8, and 9)*

<table>
<thead>
<tr>
<th>Group I. Language and Literature</th>
<th>20 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric (in addition)</td>
<td>12 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group II. Science</th>
<th>20 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Psychology 200 (in addition)</td>
<td>5 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group III. Social Science</th>
<th>20 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Including four term hours of political science</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group IV. Education</th>
<th>6 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Psychology 250A, B</td>
<td></td>
</tr>
<tr>
<td>Principles of Teaching 251</td>
<td>3 term hours</td>
</tr>
<tr>
<td>Foundations of Modern Education 353</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Principles of Secondary Education 320</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Special Methods (e.g. Teaching of Geography 300T)</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Directed Teaching 371, 372, 373</td>
<td>12 term hours</td>
</tr>
<tr>
<td>Teaching of Handwriting 100</td>
<td>2 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group VII. Physical Education and Health</th>
<th>80 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical education: Women are required to take five terms, including one individual sport, one team sport, and Junior-and Senior-High School Physical Education. Men are required to take a minimum of fourteen class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>80 term hours</th>
</tr>
</thead>
</table>

**Note.**

1. A course in library methods is required.

2. One major sequence, consisting of 36 term hours, is required.

3. One minor sequence, consisting of 24 term hours, in another subject, is required.

4. The major and the minor must involve subjects regularly taught in the junior-high-school grades.

5. Students must also present at least two sequences other than the major and the minor, consisting of twelve hours each.
LATER ELEMENTARY CURRICULUM

A.B. or B.S. Degree

(For the preparation of teachers of Grades 3, 4, 5, and 6)

Group I. Language and Literature ........................................ 20 term hours
   Rhetoric (in addition) ............................................... 12 term hours
   Literature for Children 203 (in addition) ....................... 4 term hours

Group II. Science
   Biology, chemistry, geology, mathematics, physics ........... 12 term hours
   Geography ...................................................................... 12 term hours
   Nature Study 231, 232, or 233 ............................. 4 term hours
   Hygiene 112 .................................................................... 4 term hours
   General Psychology 200 .............................................. 5 term hours

Group III. Social Science .................................................. 24 term hours
   Including four term hours of political science

Group IV. Education
   Educational Psychology 250A, B .................................. 6 term hours
   Principles of Teaching 251 ........................................... 3 term hours
   Psychology of Reading 212 ......................................... 4 term hours
   Later Elementary Education 312 ............................ 4 term hours
   Teaching of Handwriting 100 ..................................... 2 term hours
   Foundations of Modern Education 353 .................... 4 term hours
   Directed Teaching 371, 372, 373 .......................... 12 term hours

Group VII. Physical Education and Health
   Physical Education: Women are required to take five terms,
   including one individual sport, one team sport, and Later-
   Elementary Physical Education 331.

Electives ................................................................. 60 term hours

Note.—1. Students must elect three of the following courses that are in the line of
   major interest:

   Group IV
   Arithmetic 101T
   Teaching of Geography 300T
   Teaching of the Social Studies 300T

   Group V
   Later Elementary Music 107
   Art Structure 106

2. A course in library methods is required.

3. The academic training shall include four minors, or a major (which may be
   a group major) and two minors. The equivalent of two minors must be in sub-
   jects or subject fields taught in the elementary grades.
MUSIC CURRICULUM

B.S. Degree

(For the preparation of teachers and supervisors of music)

Group I. Language and Literature ........................................ 20 term hours
   Rhetoric (in addition) .................................................. 12 term hours

Group II. Science .......................................................... 20 term hours
   General Psychology 200 (in addition) ................................ 5 term hours

Group III. Social Science .................................................. 20 term hours
   Including four term hours of political science.

Group IV. Education
   Educational Psychology 250A, B ........................................ 6 term hours
   Principles of Teaching 251 ............................................. 3 term hours
   Foundations of Modern Education 353 ................................. 4 term hours
   Music Education 300T, 301T, 302T .................................... 9 term hours
   Directed Teaching 371, 372, 373 .................................... 12 term hours

Group V. Fine Arts
   Fundamentals of Music 105A, B, C ................................... 9 term hours
   Voice Culture 116A, B, C, 216A, B, C ............................... 12 term hours
   Harmony 209A, B, C ...................................................... 12 term hours
   Ancient and Medieval Music 212A .................................... 4 term hours
   Modern Composers 212B ................................................ 4 term hours
   Music Appreciation 212C ................................................ 4 term hours
   Musical Composition and Analysis 320A, B, C ........................ 12 term hours
   (An elective in music may be substituted)
   Orchestration 321A ...................................................... 4 term hours
   Elective in Music ...................................................... 3 term hours

Group VII. Physical Education and Health
   Physical education: Women are required to take five terms, including one individual sport and one team sport. Men are required to take a minimum of fourteen class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)

Electives (not in music) .................................................. 17 term hours

Note.—1. A course in library methods is required.

2. Membership in the orchestra, vocal ensemble, or band is required of all students during the entire four-year course.
PHYSICAL EDUCATION FOR MEN CURRICULUM

B.S. Degree

(For the preparation of teachers and supervisors of physical education for men)

Group I. Language and Literature ........................................ 20 term hours
Rhetoric (in addition) .................................................. 12 term hours
Fundamentals of Speech 105A (in addition) ............................. 4 term hours

Group II. Science
General Biology 100 A, B ............................................... 8 term hours
Hygiene 112 .................................................................. 4 term hours
Anatomy 211 A, B ............................................................ 8 term hours
Physiology 211 C .............................................................. 4 term hours
General Psychology 200 ..................................................... 5 term hours

Group III. Social Science ..................................................... 20 term hours
Including four term hours of political science

Group IV. Education
Educational Psychology 250 A, B ........................................... 6 term hours
Principles of Teaching 251 ................................................. 3 term hours
Psychology of Coaching 301T .............................................. 3 term hours
Foundations of Modern Education 353 .................................. 4 term hours
Organization and Administration of Physical Education 302T ....... 4 term hours
Principles of Physical Education 300T .................................. 3 term hours
Directed Teaching 371, 372, 373 (in physical education, in coaching, and in minor field.) ....... 12 term hours

Group VII. Physical Education and Health
History of Physical Education 206 ......................................... 3 term hours
First Aid and Athletic Training 306 ....................................... 4 term hours
Principles and Technique of Gymnastic Teaching 305 ............... 3 term hours
Kinesiology 308 .................................................................. 4 term hours
Fundamentals and Technique of Football 208 ......................... 3 term hours
Fundamentals and Technique of Basketball 209 ...................... 3 term hours
Physiology of Exercise 307 ............................................... 3 term hours
Fundamentals and Technique of Baseball 210 ......................... 3 term hours
Fundamentals and Technique of Track and Field 211 .............. 3 term hours
Anthropometry 309 ............................................................. 4 term hours
General Athletics 105 A, B, C ............................................. 3 term hours
Swimming 310 .................................................................... 1 term hour
Camping and Scouting 207 ................................................... 4 term hours
Advanced Athletics 205 A, B, C ........................................... 3 term hours
Playground and Community Recreation 320 ......................... 4 term hours

Electives (not in physical education) ........................................ 24 term hours

Note.—A course in library methods is required.
PHYSICAL EDUCATION FOR WOMEN CURRICULUM

B.S. Degree

(For the preparation of teachers and supervisors of physical education for women)

<table>
<thead>
<tr>
<th>Group</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Language and Literature</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Rhetoric (in addition)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of Speech 105A (in addition)</td>
<td>4</td>
</tr>
<tr>
<td>II</td>
<td>Biology 100 A, B</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Hygiene 112</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Anatomy 211 A, B</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Physiology 211C</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>General Psychology</td>
<td>5</td>
</tr>
<tr>
<td>III</td>
<td>Social Science</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Including four term hours of political science</td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>Educational Psychology 250 A, B</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Principles of Teaching 251</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foundations of Modern Education 353</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Methods in Physical Education 300T</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Administration and Organization of Physical Education 301T</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Principles of Physical Education 302T</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Directed Teaching 371, 372, 373</td>
<td>12</td>
</tr>
<tr>
<td>V</td>
<td>Fine Arts</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Musical Construction 110</td>
<td></td>
</tr>
<tr>
<td>VII</td>
<td>Physical Education and Health</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Physical Education 170</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>History of Physical Education 171</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>First Aid and Massage 271</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Playground Organization 270</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Applied Anatomy 273</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Theory of Athletics 274</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Theory of Swimming 275</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Rhythmic Plays and Singing Games 371</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Theory of the Dance 370</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Theory of Games 372</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Individual Gymnastics 373</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Advanced Technique in Coaching Athletics and Sports 374</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Modern Problems in Physical Education 375</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Community Recreation, Scouting, Camp Fire 376</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Health Education 185</td>
<td>4</td>
</tr>
</tbody>
</table>

Note: A course in library methods is required.

Required in addition from Group VII:
Physical Education 151 A, B, C; 251 A, B, C; 351 A, B, C; 361 A, B, C.

Electives (not in physical education) ................................ 27 term hours
RURAL ELEMENTARY CURRICULUM (Four Years)
A.B. or B.S. Degree

(For the preparation of teachers of one-teacher, consolidated, and village schools)

<table>
<thead>
<tr>
<th>Group</th>
<th>Course Description</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Language and Literature</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Rhetoric (in addition)</td>
<td>12</td>
</tr>
<tr>
<td>II</td>
<td>Biology, chemistry, geology, mathematics, physics</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Introductory Geography 105 A, B</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>General Psychology 200</td>
<td>5</td>
</tr>
<tr>
<td>III</td>
<td>Social Science (including four term hours of political science)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Rural Economics 240 (in addition)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Rural Sociology 240 (in addition)</td>
<td>4</td>
</tr>
<tr>
<td>IV</td>
<td>Educational Psychology 250 A, B</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Principles of Teaching 240</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foundations of Modern Education 353</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Rural Education 340</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Rural Education (advanced courses)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Curriculum 145</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Teaching of Handwriting 100</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Directed Teaching 371, 372, 373</td>
<td>12</td>
</tr>
<tr>
<td>VII</td>
<td>Physical Education and Health</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical education: Women are required to take five terms, including one individual sport, one team sport, and Rural-School Physical Education 233. Men are required to take a minimum of fourteen class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>74</td>
</tr>
</tbody>
</table>

Note.—1. Permission may be granted students desiring to gain some insight into the field of geography to take Introductory Geography 305 and one course in regional geography, instead of Introductory Geography 105A and 105B.

2. Students will choose among the following according to suggestion of departmental adviser:

<table>
<thead>
<tr>
<th>Group</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>Rural School Agriculture 105</td>
</tr>
<tr>
<td></td>
<td>Hygiene 112</td>
</tr>
<tr>
<td></td>
<td>Biological Nature Study 231, Physical Nature Study, 232, or Biological Nature Study 233</td>
</tr>
<tr>
<td>IV</td>
<td>Arithmetic 101T</td>
</tr>
<tr>
<td></td>
<td>Teaching of Geography 300T</td>
</tr>
<tr>
<td></td>
<td>Teaching of the Social Studies 300T</td>
</tr>
<tr>
<td></td>
<td>Psychology of Reading 212</td>
</tr>
<tr>
<td></td>
<td>Stories for Childhood 208</td>
</tr>
<tr>
<td></td>
<td>School Supervision 361</td>
</tr>
<tr>
<td>V</td>
<td>Art Structure 106</td>
</tr>
<tr>
<td></td>
<td>Industrial Art 110</td>
</tr>
<tr>
<td></td>
<td>Rural School Music 109</td>
</tr>
<tr>
<td>VI</td>
<td>Home Economics 120 or equivalent</td>
</tr>
<tr>
<td>VII</td>
<td>Health Education 185</td>
</tr>
</tbody>
</table>

3. The academic training shall include four minors, or a major (which may be a group major) and two minors. The equivalent of two minors must be in subjects or subject fields taught in the elementary grades.

4. A course in library methods is required.
RURAL ELEMENTARY CURRICULUM (Two Years)

96 term hours

(Leading to a three-year certificate for teachers of one-teacher, consolidated, and village schools)

Group I.—English\(^1\) .................................................. 11 term hours
Rhetoric (in addition) .................................................. 9 term hours

Group II. Science
Nature Study 231, 232, 233 or Agriculture 105 .................. 4 term hours
Introductory Geography 105 A or 305\(^2\) ......................... 4 term hours
Elective\(^3\) ................................................................. 4 term hours

Group III. Social Science\(^4\)
Rural Economics 240 .................................................. 4 term hours
Rural Sociology 240 .................................................. 4 term hours
Elective ................................................................. 4 term hours

Group IV. Education
Teaching of Handwriting 100 ......................................... 2 term hours
Arithmetic 101T ......................................................... 4 term hours
Curriculum 145 .......................................................... 4 term hours
Principles of Teaching 240 ........................................... 3 term hours
Directed Teaching 271 ............................................... 4 term hours
Rural Education 340 .................................................. 4 term hours

Group V. Fine Arts
Art Structure 106 ..................................................... 4 term hours
Music 109 ................................................................. 4 term hours

Group VI. Practical Arts
Home Economics 120 ................................................... 2 term hours

Physical Education\(^5\)—3 terms
Library Methods—1 term.
Electives .................................................................. 21 term hours

Note.—1. Fundamentals of Speech 106 A, B may be included in this group.

2. Permission may be granted students desiring to gain some insight into the field of geography to take Introductory Geography 305, instead of 105A which would need to be followed by 105 B, as a prerequisite to courses in regional geography.

3. Hygiene 112 or Health Education 185 are advised as electives in this group.

4. "... a course of six one hour lectures or the equivalent shall be given in political science ..."—Michigan School Laws, Section 742; Revision, 1936.

5. Men are required to complete a minimum of 8 class hours. Women must include Physical Education 101A, Rural School Physical Education 233, and either an individual or a team sport.
RURAL HIGH SCHOOL CURRICULUM

A.B. or B.S. Degree

(For the preparation of teachers of rural-consolidated and village high schools)

Group I. Language and Literature ........................................... 20 term hours
   Rhetoric (in addition) ................................................ 12 term hours

Group II. Science .............................................................. 20 term hours
   General Psychology 200 (in addition) .......................... 5 term hours

Group III. Social Science (including four term hours of political science) .... 12 term hours
   Rural Economics 240 (in addition) ............................. 4 term hours
   Rural Sociology 240 (in addition) ............................. 4 term hours

Group IV. Education
   Educational Psychology 250 A, B .................................. 6 term hours
   Principles of Teaching 240 .......................................... 3 term hours
   Foundations of Modern Education 353 ......................... 4 term hours
   Rural Education 340 ................................................... 4 term hours
   Rural Education (advanced courses) ............................. 6 term hours
   Directed Teaching 371, 372 ......................................... 8 term hours

Group VII. Physical Education and Health
   Physical education: Women are required to take five terms, including one individual sport, one team sport, and Junior-and Senior-High School Physical Education 332. Men are required to take a minimum of fourteen class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)

Electives .............................................................................. 84 term hours

Note.—1. A course in library methods is required.

2. One major sequence consisting of 36 term hours is required.

3. One minor sequence consisting of 24 term hours is required.

4. The major and the minor must involve subjects regularly taught in the high-school grades.

5. Students must elect a methods course in either the major or the minor field.

6. Students must also present two sequences, other than the major and the minor, consisting of 12 term hours each.

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

Rural Agricultural High School Curriculum: Students desiring to complete their degrees and receive Smith-Hughes vocational agricultural teaching certificates from Michigan State College may meet the requirements by completing the first two years of this curriculum. As sequences they should elect 20 hours from Animal Husbandry 106, 107, 108; Soils 201; Farm Crops 202; Horticulture 203; also, if desired, Rural School Shop 203 A, B, C. The remaining sequences should be chosen with the consent of the adviser.
SENIOR HIGH SCHOOL CURRICULUM

A.B. or B.S. Degree

(For the preparation of teachers of Grades 9, 10, 11, 12)

Group I. Language and Literature ........................................... 20 term hours
Rhetoric (in addition) ......................................................... 12 term hours

Group II. Science ................................................................. 20 term hours
General Psychology 200 (in addition) ....................................... 5 term hours

Group III. Social Science ...................................................... 20 term hours
Including four term hours of political science.

Group IV. Education
Educational Psychology 250 A, B ........................................... 6 term hours
Principles of Teaching 251 .................................................. 3 term hours
Special Methods (e.g. Teaching of Social Studies 300T) ............... 4 term hours
Foundations of Modern Education 353 ...................................... 4 term hours
Public Education in Michigan 353 .......................................... 4 term hours
Principles of Secondary Education 320 .................................... 4 term hours
Directed Teaching 371, 372 ................................................ 8 term hours

Group VII. Physical Education and Health
Physical education: Women are required to take five terms, including one individual sport, one team sport, and Junior- and Senior High-School Physical Education 332. Men are required to take a minimum of fourteen class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)

Electives ................................................................. 86 term hours

Note.—1. A course in library methods is required.
2. One major sequence consisting of 36 term hours is required.
3. One minor sequence of 24 term hours in another subject is required.
4. The major and the minor must involve subjects regularly taught in the senior-high-school grades.
5. Students must also present a sequence, other than the major and the minor, consisting of at least 12 term hours.
SPECIAL EDUCATION CURRICULUM

B.S. Degree

(For the preparation of teachers of mentally retarded and backward children)

Group I. Language and Literature ........................................ 20 term hours
    Rhetoric (in addition) ............................................. 12 term hours

Group II. Science
    General Biology 100 A, B, C .................................... 12 term hours
    Hygiene 112 (or Health Education 190) ..................... 4 term hours
    General Psychology 200 ......................................... 5 term hours
    Abnormal Psychology 305 ........................................ 4 term hours

Group III. Social Science
    Principles of Sociology 241 A, B; Modern Social Problems 
        242 ............................................................. 12 term hours
    Political science ................................................ 4 term hours
    Elective ............................................................. 4 term hours

Group IV. Education
    Educational Psychology 250 A, B ................................ 6 term hours
    Principles of Teaching 251 ...................................... 3 term hours
    Education of Exceptional Children 331 ..................... 4 term hours
    Mental Tests 307 .................................................. 4 term hours
    Mental Deficiency 332 ......................................... 4 term hours
    Mental Hygiene 335 A, B, C ..................................... 6 term hours
    Methods of Teaching Subnormal Children 337 ............. 2 term hours
    Foundations of Modern Education 353 ....................... 4 term hours
    Teaching of Handwriting 100 ................................... 2 term hours
    Directed Teaching 371, 372, 373 ............................... 12 term hours

Group V. Fine Arts
    Illustrative Handwork 107 ....................................... 4 term hours

Group VI. Practical Arts
    Special Education Shop 208 ...................................... 2 or 4 term hours

Group VII. Physical Education and Health
    Physical education: Women are required to take five terms, 
    including one team sport and one individual sport. Men are 
    required to take a minimum of fourteen class hours. (A class 
    hour is to be interpreted to mean one hour of class work 
    for one term.)

    Electives ........................................................... 58 or 60 term hours

Note.—1. A course in library methods is required.
    2. One of the courses in practice teaching must be with normal children, and 
    the other two with subnormal children.
    3. The degree and the life certificate are conferred on the successful completion 
    of the above curriculum. The Special Education Certificate is awarded to 
    those who maintain a high average of scholarship and who, in addition, have 
    had at least one year of successful teaching experience.
SPECIAL EDUCATION CURRICULUM

B.S. Degree

(For the preparation of teachers of occupational therapy)

Group I. Language and Literature ........................................ 20 term hours
   Rhetoric (in addition) .................................................. 12 term hours

Group II. Science
   Science or mathematics .................................................. 8 term hours
   General Biology 101 A, B, C ........................................... 12 term hours
   General Psychology 200 ............................................... 5 term hours
   Abnormal Psychology 305 .............................................. 4 term hours

Group III. Social Science .................................................. 20 term hours
   Including four term hours of political science.

Group IV. Education.
   Educational Psychology 250 A, B ...................................... 6 term hours
   Principles of Teaching 251 ............................................ 3 term hours
   Education of Exceptional Children 331 .............................. 4 term hours
   Mental Deficiency 332 ................................................ 4 term hours
   Foundations of Modern Education 353 ................................. 4 term hours
   Directed Teaching 373 .................................................. 4 term hours

Group V. Practical Arts
   Special Education Shop 208 ............................................ 2 term hours
   Electives ................................................................. 20 term hours

Note.—1. A course in library methods and three term hours of physical education are required.

   2. In addition to the above 128 term hours of college work, the student must spend 27 months at the Kalamazoo State Hospital and affiliated hospitals for which 64 term hours of college credit is allowed on this curriculum only.

   3. Ninety-six term hours of college credit must be earned before the student is admitted to the study of Occupational Therapy at the Kalamazoo State Hospital. Thirty-two additional term hours of credit must be earned by the student during the 27 months of training in Occupational Therapy.

   4. This course is open to women students only.
# SPECIAL EDUCATION CURRICULUM

## B. S. Degree

(For the preparation of teachers of speech correction)

### Group I. Language and Literature
- Rhetoric (in addition) ........................................ 12 term hours
- Fundamentals of Speech 105 A, B ......................... 8 term hours
- Introduction to Speech Correction 230 ............... 4 term hours
- Principles of Speech Correction 231 .................. 4 term hours
- Phonetics 318 .................................................. 4 term hours
- Basic Voice and Speech Science 319 .................. 4 term hours

### Group II. Science
- General Biology 101 A, B, C .................. 12 term hours
- Hygiene 112 ...................................................... 4 term hours
- General Psychology 200 ........................... 5 term hours
- Abnormal Psychology 305 ......................... 4 term hours
- Elective ......................................................... 4 term hours

### Group III. Social Science
- Principles of Sociology 241 A, B .................. 8 term hours
- Modern Social Problems 242 ......................... 4 term hours
- Electives ......................................................... 8 term hours

### Group IV. Education
- Educational Psychology 250 A, B .................. 6 term hours
- Principles of Teaching 251 ...................... 3 term hours
- Applied Speech Correction 300T ................. 4 term hours
- Mental Tests 307 .............................................. 4 term hours
- Mental Hygiene 330 A, B .......................... 4 term hours
- Foundations of Modern Education 353 .......... 4 term hours
- Directed Teaching 371, 372, 373 .................. 12 term hours

### Group VIII. Physical Education and Health

Physical Education: Women are required to take five terms, including one team sport and one individual sport. Men are required to take a minimum of fourteen class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)

Electives ......................................................... 58 term hours

Suggested electives: Anatomy 211 A, B; Physiology 211 C; Psychology of Reading 212; Principles of Social Work 348; Social Practice Work 349; Psycho-Educational Problems 309; Education of Exceptional Children 331; Mental Hygiene 335 C.

### Note
1. A course in library methods is required.
2. A minor in speech correction may be taken by students in other curricula. It consists of the following sequence: Fundamentals of Speech 105 A, B; Introduction to Speech Correction 230; Principles of Speech Correction 231; Applied Speech Correction 300T; Phonetics 318; or Basic Voice and Speech Science 319. See Department of Speech announcements in the current catalog.
GENERAL DEGREE CURRICULUM

A.B. or B.S. Degree

(For liberal and pre-professional education)

Students who do not have in mind preparation for teaching may elect basic courses which provide a general education or which satisfy preliminary requirements for other professional curricula. When such a program of work is carried on for four years and conforms to the degree requirements stated on pages 43 to 47, except the professional requirements in Group IV and such other special requirements as concern professional training for teaching, the degree of Bachelor of Arts or Bachelor of Science may be granted without a teaching certificate.

Group Requirements

Group I. Language and Literature .................. 20 term hours
   Ancient language and literature, modern language and literature, certain courses as indicated in the Department of Speech.

Rhetoric (in addition) ................................ 12 term hours

Group II. Science ...................... 20 term hours
   Anatomy, astronomy, biology, botany, chemistry, geography, geology, mathematics, nature study, physics, physiology, hygiene, psychology, zoology, certain courses as indicated in the Department of Agriculture.

Group III. Social Science ................... 20 term hours
   History, political science, philosophy, economics, sociology.

Group VII. Physical Education and Health. Women are required to take five terms, including one individual sport and one team sport. Men are required to take a minimum of fourteen class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)

Electives .................................................. 120 term hours

Note.—1. A course in library methods is required.
   2. The total minimum requirement is 192 term hours.

Pre-Professional Courses

The amount of college training required by leading universities in preparation for the various professions, such as law, medicine, dentistry, etc., has in late years been materially increased. Dentistry, formerly requiring three years, now requires six; medicine, formerly a four-year course, now requires seven years; etc. A number of professions such as business administration, library science, and, increasingly, social work, are now entirely on the graduate level; that is, a four-year college degree must be presented before one may enter upon the study of those professions.

For the most part, the additional college work now required is of a cultural nature, or is definitely preparatory to professional courses to be taken later. Examples of the latter are work in mathematics basic to engineering, and the social sciences essential to law and social work. Western State Teachers College offers two and, in some cases, three or four years of work preparatory to professional study. The recommendations outlined in the following pages are based on the pre-professional requirements of the University of Michigan.

The combined curricula, approved by the State Board of Education, are special arrangements with the various professional schools of the University of Michigan. In these curricula the student, after successfully completing
the three-year curriculum as outlined at Western State Teachers College, is admitted to the professional school of the university whose requirements he has met. After a year of satisfactory work in that school, he will be granted the A.B. or B.S. degree by Western State Teachers College. If the student contemplates entering a professional course in some other college or university, he should procure a catalog of the institution he plans to attend, to assist the advisers in mapping out his course. A minimum of two years in residence is required for the degree in the combined curricula.

BUSINESS ADMINISTRATION

Because of the fact that the School of Business Administration of the University of Michigan is a graduate school, students in Western State Teachers College who plan to enroll later in the University School of Business Administration are advised to take four years of work at Western State Teachers College and to secure either the degree of Bachelor of Arts or the degree of Bachelor of Science. Except under certain conditions, a bachelor's degree is prerequisite to entrance in the School of Business Administration of the University of Michigan. A bachelor's degree from Western State Teachers College fulfills the entrance requirements but "admission on condition" is imposed upon those who do not present a minimum of twelve semester hours in economics. For a broad foundation in Pre-Business Administration, wise selection from the following courses is suggested.

First Year

Rhetoric 106, A, B, C .................................................. 9 term hours
Trigonometry and Algebra 103 A, College Algebra and Analytic
Geometry 103 B, C .................................................. 15 term hours
or
College Algebra and Analytic Geometry 104 A, B, C .................. 12 term hours
General Biology 100 A, B, C ............................................ 12 term hours
or
General Chemistry 100 A, B, C .............................................. 15 term hours
Modern Europe 108 A, B, C .............................................. 12 term hours
Fundamentals of Speech 105 A, B ............................................ 12 term hours
French, German, or Spanish 100 A, B, C ...................................... 12 term hours

Second Year

Principles of Economics 220 A, B ............................................. 8 term hours
Introduction to Statistics 211, Mathematics of Finance 227 .......... 8 term hours
Accounting 210 A, B, C .................................................. 12 term hours
General Psychology 200 .................................................... 5 term hours
Political Science 230 A, B, C .............................................. 12 term hours
French, German, or Spanish 102 A, B, C ...................................... 12 term hours

Third and Fourth Years

I. Essential courses listed above which the student desires but has been unable to fit into his program during his first two years of college.

II. Additional selections from:
1. Advanced courses in economics.
2. Advanced courses in rhetoric and literature.
3. Advanced courses in speech.
4. Advanced courses in science and mathematics.
5. Economic history and economic geography.
6. Other electives.

Note.—1. A course in library methods is required.
2. Women are required to take five terms of physical education, including one individual sport and one team sport. Men are required to take fourteen class hours of physical education. (A class hour is to be interpreted to mean one hour of class work for one term.)
DENTISTRY
(Combined Curriculum in Letters and Dentistry)

First Year
Rhetoric 106 A, B, C ........................................... 9 term hours
General Biology 100 A, B, C ................................. 12 term hours
Elective (see notes below) .................................... 27 term hours

Second Year
General Chemistry 100 A, B, C or 101 A, B, C ........... 15 term hours
Physics 203 A, B, C ............................................ 15 term hours
Elective .......................................................... 18 term hours

Third Year
Organic Chemistry 306 A, B, C ............................... 15 term hours
Elective .......................................................... 33 term hours

Note.—1. A course in library methods is required.
2. Women are required to take three terms of physical education. Men are required to take a minimum of twelve class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)
3. If ½ unit of plane trigonometry is not presented by a student, the deficiency must be made up (Trigonometry 100 C, 4 hours college credit) before the study of physics is begun in the second year.
4. In the selection of electives the student should plan to meet the general degree requirements in Groups I, II, III, and IV. See page 43.

ENGINEERING

First Year
Rhetoric 106A, B, C ........................................... 9 term hours
Trigonometry and Algebra 103A, College Algebra and Analytic Geometry 103B, C .............................................. 15 term hours
or College Algebra and Analytic Geometry 104A, B, C ............ 12 term hours
General Chemistry 100A, B, C or 101A, B, C ................... 15 term hours
Fundamentals of Speech 105A .................................... 4 term hours
Descriptive Geometry 222 ........................................ 4 term hours
Mechanical and Machine Drawing 221 ............................ 4 term hours

Second Year
Calculus 205A, B, C ........................................... 12 term hours
Mechanics and Sound 203A, Heat and Light 203B, Magnetism and Electricity 203C ........................................... 15 term hours
Principles of Economics 220A, B .................................. 8 term hours
Financial Organization 221 or Labor Problems 325 ................ 4 term hours
Electives ................................................................... 12 term hours

Note.—A course in library methods and a minimum of eight class hours of physical education are required. (A class hour is to be interpreted to mean one hour of class work for one term.)
FORESTRY

(Combined Curriculum in Letters and Forestry)

First Year

Rhetoric 106 A, B, C ................................................. 9 term hours
General Biology 100 A, B, C ........................................... 12 term hours
Elective⁴ (see notes below) .............................................. 27 term hours

Second Year

General Chemistry 100 A, B, C or
   General Chemistry 101 A, B, C .................................. 15 term hours
Physics 203 A, B, C ..................................................... 15 term hours
Elective⁴ ........................................................................ 18 term hours

Third Year

Organic Chemistry 306 A, B, C ........................................... 15 term hours
Elective⁴ ........................................................................ 33 term hours

Note.—1. A course in library methods is required.

2. Women are required to take three terms of physical education. Men are
   required to take a minimum of twelve class hours. (A class hour is to be in-
   terpreted to mean one hour of class work for one term).

3. If ½ unit of plane trigonometry is not presented by a student, the de-
   ficiency must be made up (Trigonometry 100 C, 4 hours college credit), before
   the study of physics is begun in the second year.

4. Electives should be so selected that the requirements of Groups I and III
   are met. The required work meets the requirements of Group II.

5. In the selection of electives the student should plan to meet the general
   degree requirements in Groups I, II, III, and IV. See page 48.
JOURNALISM

First Year

Rhetoric 106A, B, C .......................................... 9 term hours
General Biology 100A, B, C ................................ 12 term hours
or
General Chemistry 100A, B, C .............................. 15 term hours
United States History 201A, B, C ........................... 12 term hours
French, German, or Spanish 100A, B, C .................... 12 term hours

Second Year

History of American Literature 120 .......................... 4 term hours
General Psychology 200 ....................................... 5 term hours
Principles of Sociology 241A, B; Modern Social Problems 242 12 term hours
National Government 230A, State and Local Government 230B, Practical Politics 230C 12 term hours
Principles of Economics 220A, B .............................. 8 term hours
Financial Organization 221 ................................. 4 term hours
or
Economic Development of the United States 312 ........... 3 term hours
Electives ....................................................... 3 or 4 term hours

Note.—1. A course in library methods is required.

2. Women are required to take three terms of physical education. Men are required to take a minimum of eight class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)

3. Since journalists are using the typewriter constantly, it is of great advantage to the student to acquire facility in typing. It is strongly recommended that the student who is not already a proficient typist take Personal Typewriting 99 (without college credit.)

LAW

First Year

Rhetoric 106A, B, C .......................................... 9 term hours
Trigonometry and Algebra 103A, College Algebra and Analytic Geometry 103B, C ............................... 12 term hours
or
General Chemistry 100A, B, C .............................. 15 term hours
or
General Biology 100A, B, C ................................. 12 term hours
English History 109A, B, C ................................. 12 term hours
Latin, French, German, or Spanish 100A, B, C .......... 12 term hours

Second Year

English Literature 107A, B, C ................................ 12 term hours
or
Shakespeare 214A, B, C ...................................... 9 term hours
United States History 201A, B, C ........................... 12 term hours
Principles of Economics 220A, B, and Financial Organization 221 ......................................................... 12 term hours
French, German, or Spanish 102A, B, C .................... 12 term hours

Note.—1. A course in library methods is required.

2. Women are required to take three terms of physical education. Men are required to take a minimum of eight class hours. (A class hour is to be interpreted to mean one hour of class work for one term.)
MEDICINE

**First Year**

Rhetoric 106 A, B, C ............................................. 9 term hours
General Biology 100 A, B, C ....................................... 12 term hours
General Chemistry 100 A, B, C or General Chemistry 101 A, B, C . 15 term hours
German 100 A, B, C .................................................. 12 term hours

**Second Year**

English History 109 A, B, C or Modern Europe 108 A, B, C
or United States History 201 A, B, C ............................. 12 term hours
English Literature 107 A, B, C ..................................... 12 term hours
Physics 203 A, B, C .................................................. 15 term hours
Intermediate German 102 A, B, C or
Scientific German 103 A, B, C ..................................... 12 term hours

**Third Year**

Shakespeare 214 A, B, C or Nineteenth Century Poetry 309 A, B, C
or Literary Interpretation 210, Lyric Poetry 211, and
Familiar Essay 212 .................................................. 12 term hours
Organic Chemistry 306 A, B ........................................ 10 term hours
Electives (Cultural subjects such as mathematics, history, sociology, economics, political science, speech, German, or philosophy are recommended.) ........................................... 17 term hours

Note.—1. A course in library methods is required.

2. Women are required to take four terms of physical education. Men are required to take twelve class hours of physical education. (A class hour is to be interpreted to mean one hour of class work for one term.)

3. First class medical colleges require for entrance 90 semester hours (3 years) of college credit in addition to high-school graduation. If two units of high-school Latin are not presented by the student, the deficiency must be made up without college credit. If one-half unit of trigonometry is not presented by the student, the deficiency must be made up (Trigonometry 100 C, 4 term hours college credit). Trigonometry must be taken before the study of physics is begun in the second year.

4. Electives should be so selected that the requirements of Groups I and III are met. The required work meets the requirements of Group II.
SOCIAL WORK

*First Year

Rhetoric 106 A, B, C ........................................ 9 term hours
General Biology 100 A, B, C .................................. 12 term hours
Modern Europe 108 A, B, C (unless the student plans to take
United States history in the sophomore year) ........... 12 term hours

Second Year

Principles of Sociology 241 A, B ................................... 8 term hours
Social Psychology 243 ........................................ 4 term hours
General Psychology 200 ........................................ 5 term hours
Principles of Economics 220 A, B ................................ 8 term hours
United States History 201 A, B, C (unless the student has taken
the history suggested for the freshman year) .......... 12 term hours

Third Year

Advanced Rhetoric 323 .......................................... 4 term hours
Any 2 or 3 of the following advanced sociology courses:
Modern Social Problems 242 .................................. 4 term hours
Urban Sociology 340 ......................................... 4 term hours
The Family 341 ............................................. 4 term hours
Criminology 342 ............................................ 4 term hours
Mental Deficiency 332 ......................................... 4 term hours
Mental Hygiene 335 A, B, C ................................ 4 term hours
National Government 230A, State and Local Government 230B 8 term hours

Fourth Year

Any one of the following (if needed to complete 3 required
courses in advanced sociology):
Rural Sociology 245 ........................................... 4 term hours
Population 343 ............................................. 4 term hours
Principles of Social Work 348 ................................ 4 term hours
Any two of the following:
Social Work Practice 349A .................................. 4 term hours
Social Work Practice 349B .................................. 4 term hours
Psycho-Educational Problems 309 ......................... 3 term hours

*Professional training for social work is today largely restricted to the graduate
level by the leading schools of social work. This pre-professional curriculum per-
mits 88 or 89 hours of electives, only recommended courses being indicated in the
above outline. Therefore students pursuing it should plan to complete a curriculum
conforming to the degree requirements. Social science should be the field of major
sequences, while a minor sequence may be chosen from any field of special interest
to the student. If a life certificate in teaching is also desired, courses must be selected
so that the requirements in some one of the life certificate curricula are fulfilled.

Note.—1. A course in library methods is required.

2. Women are required to take five terms of physical education, including
one individual sport and one team sport. Men are required to take a minimum of
fourteen class hours. (A class hour is to be interpreted to mean one hour of
class work for one term.)
INTERPRETATION OF MAJOR, MINOR, AND GROUP REQUIREMENTS

1. In fulfilling the requirements for major and minor sequences as well as the group requirements I, II, and III, the following questions should be uppermost in the mind of the student as he elects and the faculty member as he advises:

1. What is the background of the student so far as previous courses in this field are concerned?
2. What are the special interests and abilities of the student?
3. What is the usefulness of the course in teaching?
4. What is the value of the particular course from the point of view of the cultural development of the student?
5. What is the value of the course from the point of view of graduate study?

These questions are not necessarily listed here in the order of importance; but they are all questions which should be answered in determining the sequence of courses which the student should pursue in satisfying the above-mentioned requirements. In other words, there should be no general rules by which it is definitely predetermined what constitutes a satisfactory major or minor sequence or grouping for every student. The sequence should be made to best fit the needs of the particular individual.

2. As a rule it is preferable not to use education as a major in any undergraduate curriculum. The student may choose work in education according to his interests but should attempt to satisfy his major and minor requirements in the fields having content for teaching. Special methods courses in the teaching of certain subjects and directed teaching should not be counted as satisfying a part of the requirements for majors and minors in fields such as history, art, and home economics. Uniformly required courses in education; i.e., Educational Psychology 250 A, B, Principles of Teaching 240 or 251, Foundations of Modern Education 353, and Directed Teaching 371, 372 may not be applied toward a major or minor in education.

3. Two or more courses are “consecutive, coherent courses” when they involve direct or logical relationships with each other, either because of essential prerequisites or because of obvious supplementation or for both reasons. Thus College Algebra and Analytic Geometry 104 A, B, C, and Calculus 205 A, B, C are “consecutive, coherent courses” because a knowledge of college algebra and analytic geometry is an essential prerequisite to Calculus, and Calculus 205A is essential to successful work in Calculus 205B, etc. Similarly, Comparative Government 333 A, B, constitute “consecutive, coherent courses” with a series of courses in modern European history, because of the obvious way in which an understanding of the latter is supplemented by a knowledge of the former.

4. A student who expects to be recommended for a position in the teaching of a special subject, such as art, music, commerce, manual arts, home economics, or physical education, should present a minor of at least 24 hours in that field.

5. It should be understood that “isolated” or short sequential requirements of particular curricula may at the same time be applied to meet parts of the requirements in majors, minors, or groupings. For example, the Department of Home Economics makes a requirement of twelve hours of chemistry. There is no reason why this should not be combined with twelve hours of additional, well-selected work in chemistry or some other closely related science to constitute a minor of twenty-four hours. Early-elementary-education majors have a specific requirement of eight hours in art. There is no reason why this art might not be combined with sixteen additional hours of art to constitute a minor. For majors in physical education for men it is specified that eight hours in biology and sixteen hours in physiology and hygiene are required. There is no reason why this requirement might not
satisfy either the minor sequence or the group requirement. A student may not, however, satisfy the requirements for a major or minor or a grouping in English by the application of the twelve hours of required rhetoric.

6. So-called "isolated courses" need not necessarily be excluded from a student's major, minor or group sequences. For example, French literature might easily combine with English in certain instances; the short story might make a fine combination with previous courses in French; or business and government might be a valuable combination with political science. In other words, the fact that a certain course does not fit into a particular sequence in terms of specific prerequisites does not mean that it is "isolated" in relation to the previous work of the student nor in its contribution to a more complete understanding of a subject in which the student is interested.

7. It is understood that a student may satisfy group requirements I, II, and III through the use of major and minor sequences.

8. Sample interpretations of major sequences which might be acceptable in individual instances according to student needs are given below. (Acceptable minor sequences could be interpreted in the same fashion, except that the number of hours would be decreased according to the difference between thirty-six and twenty-four.) In all cases the student should have had faculty advice before making his elections.

<table>
<thead>
<tr>
<th>History Major</th>
<th>History Major</th>
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<tbody>
<tr>
<td>12 Greek - Roman - Medieval or 12 English history</td>
<td>24 or 12 European history</td>
</tr>
<tr>
<td>12 Modern Europe</td>
<td>12 or 24 United States history</td>
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<td>12 United States (elementary or advanced)</td>
<td>(12 first year</td>
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<tr>
<td></td>
<td>(12 advanced, or economics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Related Social Science Minor</th>
<th>Related Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Political Science</td>
<td>8 Political Science</td>
</tr>
<tr>
<td>12 Economics</td>
<td>8 Economics</td>
</tr>
<tr>
<td>12 Sociology</td>
<td>8 Sociology</td>
</tr>
</tbody>
</table>

Many different combinations depend upon (1) the student's high-school courses and (2) his chosen field of specialization.

1. Physics, chemistry, or biology—36 hours
2. Biology—24 hours
   Hygiene and physiology—12 hours, or chemistry—12 hours
3. Physics—24 hours
   Mathematics—12 hours
4. Chemistry—24 hours
   Physics—12 hours
5. Physiology and hygiene—24 hours
   Chemistry—12 hours

The following examples serve to indicate the diversity of courses which might, in individual cases, be considered to constitute satisfactory requirements for groupings I, II, III:

1. United States history—12
   Sociology—8
2. Economics—12
   Economic development of United States—6
   Industrial relations—3
3. Mathematics—12
   Physics—8
4. Biology—12
   Biological nature study—8
5. Chemistry—12
   Bacteriology—8
6. Political science—12
   United States history—8
7. Spanish—12
   English—8
DETAILS OF DEPARTMENTAL COURSES

AGRICULTURE

HOWARD D. CORBUS

105. Rural School Agriculture. 4 term hours. Mr. Corbus.

This course is intended for those planning to teach in rural communities, even though they may not teach agriculture as a separate subject. It helps the prospective teacher to familiarize himself with the agricultural interests that constitute the environment of pupils who come from farm homes, and thus to acquire a means of interesting them in other subjects. It is of necessity very general and may not, even in a simple treatment, cover all phases of farm life. An attempt is made to adapt the course to the type of agriculture common to the region in which the majority of the class is interested. Opportunity for practical observation is offered on the college farm.

Note.—For information regarding the significance of course numbers and credit for courses see page 31.

ART

LYDIA SIEDSCHLAG
SELMA E. ANDERSON

SIDNEY SEELEY
LOUISE F. STRUBLÉ

106. Art Structure. 4 term hours. Mr. Seeley.

This course is especially arranged to help the student to direct art activities in the grades. The term’s work includes lettering, design, color theory, drawing, and holiday projects, together with methods of presenting problems and developing a greater appreciation of art among children.

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

Problems relating to interests in primary grades, worked out in wood, paper, clay, and other mediums. Required of early-elementary students.

110. 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, and utensils; how it puts itself on record; and of modes of transportation.

201. Free Brush. 4 term hours. Miss Anderson.

A method of spontaneous drawing and designing, using large brushes, ink, and poster paints.

310. Painting. 4 term hours. Prerequisite: Art Structure 106, Elementary Design 105, Art Composition 208 or consent of the instructor. Mr. Seeley.

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

LAVERN ARGABRIGHT
WALLACE BORGMAN

100B. General Biology. 4 term hours. Prerequisite: General Biology 100A. Dr. Goddard.

Emphasis upon animal biology. Physiology and life relations are developed through a somewhat detailed laboratory study of several animals, such as the earthworm, the crayfish, the grasshopper, and the frog. Applications to human life problems will be given special consideration. Class room, 2 hours a week; laboratory 2 double periods.

201. Fundamentals of Biology. 4 term hours. Not open to students who have taken or who expect to take General Biology 100A. Mr. Hinds.

This course surveys the field of biology in a broad way. It is especially recommended for students who wish an introductory course in biological science without specialization therein. Class demonstrations replace laboratory work.

ANATOMY, PHYSIOLOGY, AND SANITARY SCIENCE

112. Hygiene. 4 term hours. Desirable antecedents: General Biology 100 A, B. Dr. Borgman.

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

211C. Physiology. 4 term hours. Prerequisites: General Biology 100 A, B, C. Desirable antecedents: Anatomy 211 A, B. Dr. Borgman.

The facts of physiology are presented, and stress is laid upon the relation of these facts to the interpretation of disease. Daily, including laboratory work.

212A. Bacteriology. 4 term hours. Prerequisites: Hygiene 112 and at least one term of General Biology. Mr. Wiseman.

A classroom and laboratory course in elementary bacteriology based on the study of the structural, functional, and growth characters of all types of microorganisms. Those who plan taking medicine, dentistry, nursing, health teaching, etc., will find this course valuable. The laboratory work requires about three hours per week.

BOTANY

222. Summer Flora. 4 term hours. Prerequisite: A year of biology.

Plants are studied from the standpoint of classification and group relationship. Some stress is placed on plant ecology. Field work constitutes an important part of the course.

NATURE STUDY

232. Physical Nature Study. 4 term hours. Mr. Wiseman.

The purpose of this course is to help the student become familiar with some of the physical aspects of nature, to demonstrate with simple experiments some of the laws of nature, and to develop an understanding of some of the wonders of the universe. Weather, rocks, minerals, electricity, astronomy, heat, and light are studied.

233. Biological Nature Study. 4 term hours. Miss Argabright.

The aim of this course is to develop the ability to interpret natural phenomena with scientific accuracy through the study of the plants and animals of the student's immediate environment, to develop an understanding
of some of the laws of nature, and to help the student to enjoy and appreciate
the beauties of nature. The course includes the study of wayside and garden
flowers; resident birds; pond life; aphids, bees, wasps, flies, and ants.

234. Bird Study. 4 term hours. Prerequisite: Biological Nature Study
233 or an elementary course in zoology, botany, or biology. Mr.
Hinds.

This course undertakes to develop a knowledge of birds through outdoor
study, paying particular attention to recognition marks, songs, habits, and
nests. As a background and aid in this work the classification of North
American birds into orders and families is studied in the laboratory; a series
of skins representing about 100 species is provided for identification; and
certain special topics in elementary ornithology are taken up in assigned
readings and classroom discussions. Field trips are conducted to the Kellogg
Bird Sanctuary, the Wolf Lake Fish Hatchery, and various habitats in the
vicinity of Kalamazoo. Students enrolling in bird study are expected to
furnish their own field glasses.

235. Field Course in Conservation. 2 term hours. June 20-26, 1938, between
spring and summer terms. Miss Argabright, Mrs. De Witt, Miss
Hadley, Mr. Paquin, Mr. Rochester, and Dr. Smith.

The aim of this course is to develop an appreciation of the need of con-
serving our natural resources. The course will consist of lectures and field
trips in botany, forestry, geology, and zoology. The course will be given at
Pigeon River State Forest—a 77,000-acre forest of pines and hardwoods, rich
in geologic formations, trees, flowers, forest animals, bird life, and fish—
located twenty miles northeast of Gaylord. Field note-books will be kept
and materials will be gathered for school collections. Students should pro-
vide themselves with clothing suitable for field trips, walking shoes, sweater
or coat, and bird or field glasses. Baggage is limited to one suitcase. The
cost of this course is $17.00; this includes board, bed, bedding, and towels
for five days in the Pigeon River State Forest, and transportation in the
school bus from Kalamazoo to camp and return. Class is limited to 30.

For further information, address Mr. John C. Hoekje, Director of Exten-
sion, Western State Teachers College.

333. Nature Guiding and Recreational Activities. 4 term hours. Miss Arga-
bright, Miss Bottje.

This course is intended to initiate the student into nature trail-making
and recreational activities. It includes games and recreation for camp
grounds, outdoor cookery, and recognition of the common trees, weeds, wild
flowers, and birds.

ZOOLOGY

241. Insect Study. 4 term hours. Desirable antecedents: General Biology
100 A, B, C. Dr. Goddard.

Designed to offer a systematic study of the leading groups of insects. Life
habits, structural adaptations, life histories, natural homes, classification, and
economic importance are considered. Frequent field excursions are made for
collection of material, identification, and study of habits. Methods of rearing
living material and of preparing museum specimens are studied. Control of
insects in relation to disease, destruction of crops, and household depredation
is especially emphasized.
CHEMISTRY

JAMES W. BOYNTON

ROBERT J. ELDRIDGE

Students preparing to teach chemistry in high schools must have as a minimum in chemistry either General Chemistry 100 A, B, and C, or General Chemistry 101 A, B, and C. Through arrangements with the Department of Physics a major in physical science may be made by taking two years of chemistry and one year of physics. A minor in chemistry consists of 24 term hours and may not be made by combining chemistry and physics.

100S.A. General Chemistry. 8 term hours. Summer Session, 1938. Mr. Eldridge.
This course is the same as course 100A and covers also half the work of course 100B. Classroom, 5 periods a week of two hours each; laboratory, 12 hours a week.

100S.B. General Chemistry. 7 term hours. Summer Session, 1939. Prerequisite: General Chemistry 100S.A.
This course is the same as the latter half of course 100B and all of course 100C. Classroom, 5 periods a week of two hours each; laboratory, 12 hours a week.

100B. General Chemistry. 5 term hours. Prerequisite: General Chemistry 100A. Mr. Boynton.
Classroom, 3 double periods a week.
Laboratory, 4 double periods a week.

Note.—See note under 100C.

100C. General Chemistry. 5 term hours. Prerequisite: General Chemistry 100 A, B. Mr. Boynton.
Classroom, 3 double periods a week.
Laboratory, 4 double periods a week.

Note.—Course 100A will be discontinued as a summer course after 1938 and course 100C after 1939.

201A. Qualitative Analysis. 4 term hours. Prerequisite: General Chemistry 100 A, B, C, or 101 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: Qualitative Analysis 201A. Mr. Eldridge.
Acid analysis. Almost entirely laboratory work. A minimum of 20 hours of laboratory work per week required.

307S. Quantitative Analysis. 5 term hours. Prerequisite: Qualitative Analysis 201 A, B. Consult the instructor before enrolling. Mr. Boynton.
This special summer course aims to meet the requirements of the student. Classroom, 2 double periods a week; laboratory, a minimum of 12 hours a week.
100A. Shorthand and Typewriting (Beginning). 4 term hours. Mr. Kirby.
This course is planned for those who have had no instruction in shorthand and typewriting and who desire training in the elementary theory and practice of Gregg shorthand and of touch typewriting. The Anniversary Edition of the Gregg Manual will be used as the text in shorthand and as much of it will be covered as time will permit. The major portion of the class period will be devoted to shorthand. Instruction in typewriting is to be supplemented by individual practice outside of class. Both shorthand and typewriting must be taken together for credit, although either may be taken separately without credit.

Note.—No college credit is given for this course until 100B and 100C have been completed. See regular catalog for specific information.

100B. Shorthand and Typewriting (Intermediate). 4 term hours. Prerequisite: Shorthand and Typewriting 100A. Mr. Kirby.
A continuation of Shorthand and Typewriting 100A. The theory of Gregg shorthand and the technique of typewriting are completed. Accuracy and rhythm in typewriting are stressed and moderate speed is developed.

Note.—No college credit is given for this course until 100C has been completed.

200. Advanced Dictation and Secretarial Practice. 4 term hours. Prerequisite: Shorthand and Typewriting 100 A, B, C, or equivalent. Mr. Kirby.
An intensive course for the development of speed in taking shorthand notes and in transcribing on the typewriter. The work in shorthand and typewriting will be supplemented by instruction and practice in the ordinary duties of a secretary.

210A. Accounting (Beginning). 4 term hours. Miss Watson.
No previous study of bookkeeping or accounting is necessary to understand the work in this course. It is designed for beginning students who desire to get an understanding of the fundamental principles of the double-entry system of account keeping. It includes a study of common business reports, the gathering and classification of the information upon which these reports are based, and the influence of business transactions upon proprietorship. Simple rules of debit and credit are developed.

210B. Accounting. 4 term hours. Prerequisite: Accounting 210A. Mr. Kirby.
A continuation of Accounting 210A. Significance of the accounting period and periodic operations, construction of simple financial statements, and the classification of accounts for various purposes. Special attention is given to the periodic adjustment of accounts, working sheets, income statements, balance sheets, and ledger closing. Some study is made of columnar journals, subsidiary ledgers, and control accounts.

304T. The Improvement of Instruction in Commercial Subjects. 4 term hours. Prerequisite: Teaching experience in commercial or related subjects. Miss Watson.
A course in assigned readings and discussion, designed to keep experienced teachers in touch with the best modern practice. While this is essentially a "methods" course, it will not deal primarily with any one subject. The relative importance of vocational and consumer education, the significance of a changing economic order with reference to teaching material, and trends in employment requirements will be considered. Students will be encouraged
to present concrete problems from actual classroom experience for discussion. A term paper, dealing preferably with an actual problem of teaching within the experience of the student, will be required. Credit for this course will not be given to prospective commercial teachers.

EDUCATION AND PSYCHOLOGY

GEORGE H. HILLIARD  
BEss Baker  
ROY C. BRYAN  
CARL R. COOPER  
MANLEY M. ELLIS  

EDMER H. WILDS  

Courses in the Department of Education and Psychology are designed primarily to meet the professional needs of the student preparing to teach. Certain regulations are set up which affect all students. Students in all curricula are required to take General Psychology 200 and Principles of Teaching 240 or 251.

All students pursuing a curriculum for a life certificate and a degree are required to take as a minimum General Psychology 200 and 20 term hours of courses in education. The courses in education are distributed as follows: Educational Psychology 250 A, B; Principles of Teaching 240 or 251; Foundations of Modern Education 353—a total of 13 term hours, the remaining seven term hours being elective. The specific curricula, however, usually prescribe that this remaining requirement is to be met with one course involving a survey of the student's field of education (such as Later Elementary Education 212 for students preparing to teach in the elementary school).

Additional or more specific requirements in courses in education are stated in the various special curricula outlines presented on pages 49 to 65 of this catalog. Elective courses are available in education and psychology in the following fields: early elementary education, later elementary education, secondary education, special education, theory and principles of education, educational measurements, administration and supervision, rural education, health education, and psychology. Certain special-methods courses giving education credit are available in other departments of the institution.

Students are not encouraged to specialize in the field of education. The department takes the position that, except in the case of very mature students who have had experience in teaching, specialization in the field of education should be reserved for graduate study. Students should feel free to take such electives in education and psychology as will give them better professional preparation for teaching and serve their individual interests. Specialization in undergraduate study, however, should as a rule be confined to the school-subject field, such as history, mathematics, commerce, and industrial arts.

EDUCATION

145. Curriculum. 4 term hours.  
For description see Department of Rural Education, page 96.

185. Health Education. 4 term hours. Miss Crane, Miss Stankard.  
In this course the fundamental scientific principles of healthful living are developed through a study of school health problems. An effort is made to advance healthful living on the part of the students, and to help prospective teachers to find the health problems of school children and to solve those problems.
208. Stories for Childhood. 4 term hours. Prerequisite: Fundamentals of Speech 105 A, B. Miss Stinson.
A study of stories and poems suitable to childhood. Classroom practice in story telling.

212. Psychology of Reading. 4 term hours. Prerequisite: General Psychology 200. Dr. Hilliard.
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 materials and methods of teaching.

240. Principles of Teaching. 4 term hours.
For description of course see Department of Rural Education, page 96.

250A. Educational Psychology. 3 term hours. Prerequisite: General Psychology 200. Dr. Bryan.
An application of the principles of psychology to education. The principal topics to be considered in this course are the meaning and scope of educational psychology, original nature, motivation, adjustment, mental hygiene, and the learning process.

250B. Educational Psychology. 3 term hours. Prerequisite: Educational Psychology 250A. Dr. Ellis.
This course is a continuation of Educational Psychology 250A. It deals primarily with individual differences, their nature, detection, and treatment. Among the topics to be considered are variations in human traits, provisions for individual differences, marking and promotion, the new-type test, interpretation of test results, intelligence classification and grouping of pupils, diagnosis of learning difficulties, evaluation of teaching procedures, the description of aptitudes, interests, and personality.

251. Principles of Teaching. 3 term hours. Prerequisite: General Psychology 200, Educational Psychology 250 A, B. Mrs. Baker.
This course involves the discovery and application of the more significant principles of the teaching process. Among the topics to be considered are the nature of the teaching profession, the objectives of education, materials affecting learning, lesson planning, the general principles of teaching, the special methods of teaching technique, and the methods of organizing the teaching period.

306. Psychology of Childhood. 4 term hours. Prerequisite: Early Elementary Education 305B, General Psychology 200, Educational Psychology 250 A, B. Mrs. Phillips.
A study of the mental development of the young child; his original nature, conditions best suited to conditioning behavior in relation to his own needs and to his social environment. Discussion will be based on experimental studies. It is desirable that this course be taken simultaneously with directed teaching.

307. Early Elementary School Problems. 3 term hours. Prerequisite: Psychology of Childhood 306 or consent of the instructor. Mrs. Phillips.
A study of existing practice in early-childhood education throughout the country, the nursery school movement, psychological clinics, recent literature in the field. Laboratory work in the training school is provided.

310. The Elementary Curriculum. 4 term hours. Prerequisite: General Psychology 200, Educational Psychology 250 A, B; Principles of Teaching 240 or 251. Dr. Hilliard and visiting specialists.
Introduction to the field of curriculum making; basic principles to be worked out, general review of the curriculum materials and content of the elementary grades.
320. **Principles of Secondary Education.** 4 term hours. Prerequisite: General Psychology 200, Educational Psychology 250 A, B, Principles of Teaching 240 or 251. Mr. Heathcote.

A study of the principles determining the aims and functions of the modern high school at both the junior and the senior levels, the criteria available for the evaluation of the various high-school subjects, and the techniques most effective in carrying on the different phases of the high-school teacher's work.

321. **The Secondary School Curriculum.** 4 term hours. Prerequisite: General Psychology 200, Educational Psychology 250 A, B, Principles of Teaching 240 or 251, Principles of Secondary Education 320. Dr. Wilds and visiting specialists.

A study of the principles underlying the revision and reorganization of junior and senior high-school curricula and a survey of current practices in adapting the high-school offering to modern social conditions and adolescent needs.

335B. **Mental Hygiene.** 2 term hours. Prerequisite: Mental Hygiene 335A or consent of instructor. Dr. Ellis.

The mental hygiene of adolescence and adulthood. Topics considered are: development of adolescence from physical, physiological, emotional, social, and intellectual points of view; sex development in adolescence; adjustment and maladjustment in adolescence; personality disorders; phantasy; drug addiction; alcoholism; mental hygiene of religion; and maladjustment in college.

335C. **Mental Hygiene.** 2 term hours. Prerequisite: Mental Hygiene 335B or consent of instructor. Dr. Ellis.

Juvenile delinquency as a mental-hygiene problem. Topics considered are: the relation of intelligence to juvenile delinquency; types of offenses committed; juvenile delinquency and the home; school maladjustment and juvenile delinquency; adult and juvenile crime; outstanding schools for juvenile delinquents, their methods and results; and the re-education of the juvenile delinquent.

336. **Character Education.** 2 term hours. Mr. Cooper.

Character outcomes of education are emphasized in this course. The theories of character education are considered, the objectives of character education are studied and catalogued, and a bibliography of references to methods and materials is collected. Consideration of the individual and respect for personality are stressed. The center of interest is life-situations, with classroom management, group cooperation, and problem-solving in the foreground. Socialized discussion, case discussions, child guidance, pupil participation, and the significance of the teacher's influence receive attention, together with the influences of the community and the home upon character.

340. **Rural Education.** 4 term hours. Dr. Robinson.

For description of course see Department of Rural Education, page 96.

345, 346, 347. **Rural Education.** (Seminar). 2 or 4 term hours. Prerequisite: Consent of instructor. Dr. Robinson.

For description of course see Department of Rural Education, page 96.

353. **Foundations of Modern Education.** 4 term hours. Prerequisite: General Psychology 200, Educational Psychology 250 A, B, Principles of Teaching 240 or 251. Dr. Wilds.

This course, prescribed by the State Board of Education in all curricula leading to a teacher's certificate, acquaints the prospective teacher with the historical and philosophical backgrounds of the institution in which he is to work, in order to prepare for intelligent participation in the interpretation of modern educational issues and the solution of present-day educational problems. The aims, types, content, agencies, organization, and methods of
education are studied from their origins down to the present time, in order to provide a sound basis for the understanding, interpretation, and evaluation of the current theories and practices in the public school system of Michigan.

361A. School Supervision. 3 term hours. Prerequisite: General Psychology 200, Educational Psychology 250 A, B, Principles of Teaching 240 or 251, Directed Teaching. Miss Steele.

The course is an introduction to the field of elementary supervision. Such topics as the following are discussed: studying the teacher at work, standards of judging instruction, and methods of improving instruction.

PSYCHOLOGY

Courses 200, 201, and 202 form a year's sequence. Students desiring 12 term hours of credit in General Psychology should elect all three. Nine term hours of credit may be secured by electing Courses 200 and 201.

200. General Psychology. 5 term hours. Dr. Umbreit.

A survey course serving as the scientific basis for subsequent courses in education, as well as an introduction to the field of psychology itself. Three lectures and two quiz periods per week.

Note.—This course may not be counted toward fulfillment of a minimum requirement in Group II.

305. Abnormal Psychology. 4 term hours. Prerequisite: General Psychology 200. Dr. Umbreit.

A discussion of the nature and forms of mental abnormality.

Note.—This course may not be counted toward fulfillment of a minimum requirement in Group II.

ENGLISH

105A. Composition. 4 term hours. Mrs. Biscomb.

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.

105B. Composition. 4 term hours. Prerequisite: Composition 105A. Miss Walker.

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

323. Advanced Rhetoric. 4 term hours. Miss Gary, Miss Nobbs, Mr. Slusser, Mr. Smith.

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

121. Chief American Poets. 4 term hours. Miss Walker.
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 consideration of their significance in American literature.

122. American Prose. 4 term hours. Mr. Householder.
The work of this course consists of wide reading in the prose of Irving, Emerson, Hawthorne, Melville, Thoreau, and Mark Twain. This is supplemented by individual study of other prose writers as recent as Henry James and William Dean Howells.

202A. Representative English Poetry. 4 term hours. Miss Eicher.
The aim of this course is to help the student become more familiar with representative poets of England and the relation of each to the period and movement in which he worked. Selections are read and discussed in class.

203. Literature for Children. 4 term hours. Mrs. Biscomb, Miss Master.
This course aims to give a general survey of the fields of literature suited to the needs and tastes of children, to get at the general principles which underlie the selection of literature for children under any given conditions, to organize and give new meaning to the mass of literature already read, and to add largely to its content by further reading.

205 A, B. Nineteenth Century English Prose. 4 term hours. Mr. Slusser.
This course affords an opportunity to read the best of nineteenth century non-fiction English prose and to estimate from the vantage-point of the twentieth century some of the cultural ideas that struggled for supremacy fifty years ago. The writers dealt with are Coleridge, Carlyle, Newman, Pater, Huxley, Ruskin, Arnold, and Stevenson.

214B. Shakespeare (Comedies). 4 term hours. Mr. Sprau.
A study of the comedies of Shakespeare more commonly read in the public schools. One or two plays are thoroughly studied in class; several others are assigned for careful reading and criticism.

218A. The English Bible (Old Testament). 4 term hours. Mr. Sprau.
Lectures and reading about what the Bible is and how we came to have it in the form it has. As much reading in the Old Testament as time will permit, with more intensive study of the following books: Genesis, Deuteronomy, Amos, Hosea, Jonah, Psalms, and Proverbs.

224. Eighteenth Century Poetry. 4 term hours. Mr. Smith.
A study is made of neo-classicism in English poetry, with especial attention to the work of Pope. Then the decline of neo-classicism and the rise of eighteenth century romanticism are followed through the poetry of Thomson, Gray, Cowper, Goldsmith, Blake, Burns, and Crabbe. Some attention is given significant critical opinion of the period, such as Addison's, Johnson's, Hurd's, and the Wartons'.

226. Masterpieces. 4 term hours. Miss Gary.
This course includes a somewhat intensive study of literary masterpieces selected from the great works of English and American literature: Chaucer, Shakespeare, Blackmore, Hawthorne.

322. American Literature. 4 term hours. Miss Nobbs.
This course is intended primarily for juniors and seniors who have had no other courses in American literature and who desire more intimate acquaintance with the subject. The work consists of lectures, discussions, and as wide reading as the time permits.
324B. **General Literature.** 4 term hours. Dr. Brown.
A study of the origin and development of the various forms of the novel in the literatures of continental Europe in their relation to the novel in English. This course is not open to students who have taken General Literature 124.

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

This course will combine a detailed study of the Wordsworths, the Carlyles, and others, with wide reading in biography and letters. Reports and critical essays will be required.

338. **Modern Drama.** 4 term hours. Miss Eicher.

A study of the plays of Ibsen, Pinero, Jones, Galsworthy, Shaw, and others, with a careful inquiry into the relations among the Continental, the English, and the American drama.

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**GEOGRAPHY AND GEOLOGY**

**WILLIAM BERRY**

**MARGUERITE LOGAN**

Introductory Geography, either 105 A, B or 305, must precede all other courses except Michigan 306 and Conservation of Natural Resources 312. Course 305 should be substituted for 105 A, B by two groups of students: (1) those who do not begin the study of geography until the junior year and yet desire to complete a minor in the field and (2) upper classmen who are interested in electing a few courses in geography as a part of their general cultural training. There is no required sequence in the courses in regional geography.

Teaching of Geography 300T may not be included in the 36 term hours required in a major nor in the 24 term hours required in a minor. A student will not receive departmental recommendation for directed teaching or for a teaching position in geography who has not successfully completed this course. It should be elected by all students in the Later Elementary curriculum.

A major in geography consists of 36 term hours, including Field Geography 320, Weather and Climate 325, and either General Geology 230 or Dynamic Geology 330 A. Students majoring in geography are advised to elect Economics 220 A, B and modern American and European history and to acquire the ability to read German or French. A minor in geography consists of 24 term hours, including Field Geography 320. All major and minor students are required to elect Teaching of Geography 300T.

A major in earth science consists of Geology 330 A, B, C and six courses in geography.

105A. **Introductory Geography.** 4 term hours. Miss Logan.

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.

105B. **Introductory Geography.** 4 term hours. Prerequisite: Introductory Geography 105A. Mr. Pryor.

A study is made of the relationships between various human activities and the major elements of natural environment not studied in 105A.
206. **United States and Canada.** 4 term hours. Prerequisite: Introductory Geography 105 A, B or 305. Mr. Berry.

A study of the United States and Canada by geographic regions.

300T. **Teaching of Geography.** 4 term hours. Prerequisite: Introductory Geography 105 A, B or 305. Desirable antecedent: Principles of Teaching. Miss Logan.

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

307. **Asia.** 4 term hours. Prerequisite: Introductory Geography 105 A, B or 305 and one regional course. Mr. Pryor.

An interpretation of the major geographic regions of Asia. Especial emphasis will be given to the organization of materials into geographic units.

340. **Field Geography.** 4 term hours. Prerequisite: Introductory Geography 105 A, B or 305. Mr. Berry.

An intensive study is made of various type areas within the Kalamazoo vicinity with the purpose of observing how agriculture, industrial development, transportation, commercial organization, and the urban pattern have made adjustment to the natural environment in these areas. The course is based primarily upon field work and affords training in observing geographical facts, field note-taking, and detailed mapping of areas studied. Required of students who desire recommendation to positions in the field of geography.

342. **Geography—History Field Course.** 8 term hours (4 in history, 4 in geography). Prerequisite: Consent of instructors; History 201A and Geography 105A are desirable. Dr. Seibert and Mr. Glasgow.

A study of the geography and history of certain areas in North America. (The 1938 trip will include areas in the Middle Atlantic States, New England, the St. Lawrence region, and the Hudson Bay area.) The class will spend four and one-half weeks traveling in the area studied, and the remainder of the term on the campus preparing reports and attending lectures.

**HANDWRITING**

**Ethel Shimmel**

100. **Teaching of Handwriting.** 2 term hours. Miss Shimmel.

This course aims to prepare students to teach handwriting. It includes a study of the principles of education, the objectives in the teaching of handwriting, the materials and methods of instruction, and the history of handwriting. The student is given practice in the measurement of handwriting, in the diagnosing of handwriting difficulties, and in determining the most beneficial remedial work. The student is also given sufficient directed practice to enable him to write with a quality and rate essential to the effective teaching of handwriting.

**HOME ECONOMICS**

**Sophia Reed**  
**Mary A. Moore**

333. **Home Management Practice.** 4 term hours. Prerequisite: Home Management 330. Miss Reed.

Students live together for one term in family size groups in a house where opportunity is provided for practice in all phases of home management.
339. **Consumer Buying.** 4 term hours. Prerequisite: Economics of Consumption 223. Miss Reed.
A study of the consumer education movement, sources of information for, and laws affecting the consumer, labelling, grading, and standardization of consumer goods. Theory of buying and an analysis of factors involved in prices.

212. **Food for the Family.** 4 term hours. Miss Moore.
Problems in planning, marketing, preparing, and serving meals.

231. **Trends in Nutrition.** 3 term hours. Miss Moore.
The study of nutrition in relation to the health of the individual and the family group.

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**INDUSTRIAL ARTS**

**CHARLES S. NICHOLS**

**ELMER C. WEAVER**

**FRED S. HUFF**

**130A. General Metal.** 4 term hours. Mr. Weaver.
An introductory course presenting hand methods in manipulating and shaping metals through a series of unit activities. Processes in forging, welding, brazing, soldering, piercing, decorating, and polishing are demonstrated and applied.

**130B. General Metal.** 4 term hours. Mr. Weaver.
A course presenting hand and machine processes in forming and shaping sheet metals. Riveting, seaming, burring, wiring, turning, crimping, beading, hemming, double seaming and soldering demonstrated and applied.

**130C. General Metal.** 4 term hours. Mr. Weaver.
A course presenting methods of handling brass, copper, pewter, nickel silver, stainless steel, gerraloy, and other semi-precious metals in the making of simple jewelry and other craft products. Processes in raising, stretching, annealing, soldering and brazing, etching, piercing and electroplating demonstrated and applied.

**203A. Rural School Shop.** 4 term hours. Mr. Nichols.
A course to train unspecialized mechanics to select, operate, care for, and repair the tools, implements, and machines commonly found in and around modern rural homes. Emphasis is placed on simple concrete-work and building construction, water-pressure and drainage systems, heating and ventilating systems, and rural power equipment.

**204. Wood Turning.** 4 term hours. Mr. Nichols.
An elementary course in the fundamentals of wood turning. It includes spindle and oval turning; church, faceplate, and spherical turning. Special attention is given to tool grinding, to the care of various types of wood lathes, and to the organization of a course of study. This course is accompanied by design, with special emphasis on turning problems.

**205. Woodshop.** 4 term hours. Prerequisite: Advanced Benchwork 106. Mr. Nichols.
An introductory course in the use and care of woodworking machines. Special emphasis is given to the various types and points to be considered in the buying of woodshop equipment. Much attention is given to jointer and surfacer grinding, band-saw filing, brazing, and circular-saw fitting. Types of furniture construction are worked out through a series of fundamental problems.
234A. Machine Shop. 4 term hours. Mr. Weaver.
A course in the fundamentals of machine tool operation, involving work at
the bench and the use of machines for making simple projects.

234B. Machine Shop. 4 term hours. Mr. Weaver.
Advanced practice in the operation of machine tools and in making parts of
simple machines, requiring some assembling and fitting of parts.

234C. Machine Shop. 4 term hours. Mr. Weaver.
The making of simple tools, taps, reamers, small dies, and designs for jigs
and fixtures. A study is made of shop layouts and equipment, and a course
is outlined for teaching machine-shop practice.

235A. Auto Mechanics. 4 term hours. Mr. Weaver.
A study of automobile mechanics, highway safety, sound driving practices,
and driver training procedures.

235B. Auto Mechanics. 4 term hours. Mr. Weaver.
Shop practice in automotive oxyacetylene welding, battery repairing, tire
vulcanizing, and electrical work. Repairs to starters, generators, and ignition
apparatus, with the use of job sheets.

235C. Auto Mechanics. 4 term hours. Mr. Weaver.
Advanced practice in motor overhauling and rebuilding, general chassis
repairs, and car refinishing.

LATIN*

MATHILDE STECKELBERG

105S. Latin Literature. 4 term hours. Miss Steckelberg.
Selections from Seneca, Tacitus, Suetonius, and other representative Latin
authors will be read. Duplication of material already familiar to members
of the class will be avoided.

300T. Teaching of Latin. 4 term hours. Miss Steckelberg.
The problems of the first two years of high-school Latin are considered.
Reports and discussion will form a part of the work. This course is pre-
requisite to directed teaching in Latin.

*Note.—Students whose needs are not met by these Latin courses should consult with
the instructor.

LIBRARY

ANNA L. FRENCH

A course of ten lessons on the use of the library. Required of all
freshmen.

306. School Library Administration. 4 term hours. Miss Lumaree.
A course for teacher-librarians in book selection and reference work
for school libraries.
Courses in the Department of Mathematics are designed to meet the needs of students presenting three types of preparation in the high school. A freshman electing work in mathematics for the first time should be careful to select from courses 100A, 103A, and 104A the one best adapted to the amount of high-school mathematics for which he has credit.

The department offers four sequences leading to calculus. Sequence A is designed for students who present trigonometry as part of their high-school preparation. Sequence B is designed for students who present one and a half years of algebra, but no trigonometry as part of their preparation. Sequences C and D are for students who have completed but one year of algebra in the high school; sequence D, the one regularly pursued by such students, requires two years to reach calculus; for exceptional cases, in which students having but one year of high-school algebra desire to enter calculus in the second year of their college course, sequence C is offered; this requires two courses in mathematics during the winter term, whereas, in general, freshmen are not advised to pursue more than one course in any department. Note that the four sequences are mutually exclusive.

### Elementary Sequences in Mathematics

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For students who have studied calculus, a main sequence is offered consisting of the following courses: Solid Analytic Geometry 323, Theory of Equations 322, Differential Equations 321, Theoretical Mechanics 325. During the regular academic year one of these courses is offered each term at nine o'clock.

For all students, including those not majoring in mathematics, there is offered by the department a group of subjects consisting of the following courses: Mathematics of Finance 227, Mathematics of Insurance 228, Introduction to Statistics 211. During the regular academic year one of these courses is offered each term at eleven o'clock.

Opportunity is offered for more varied work in mathematics, but the courses should be chosen with some regard for the particular interests and objectives of the student. Students should confer with members of the department.

Students expecting to teach mathematics are advised to elect the professional courses in the teaching of mathematics best suited to their particular field. It should be noted, however, that adequate appreciation of, and acquaintance with subject matter, is the first inevitable step in the acquisition of professional skill in teaching. Professional preparation for teaching mathematics demands both academic accomplishment and training in proficiency of method, but in general the relative importance of these two types of education is in the order in which they are mentioned here.
Students desiring to do directed teaching in mathematics must have completed a major or a minor in this subject and have included in this preparation at least one of the following courses: Teaching of Algebra 308T, Teaching or Geometry 309T. The History of Mathematics 315 A, B is also recommended. Applications for directed teaching in mathematics must be approved by the chairman of this department. Solid Euclidean geometry is a prerequisite to directed teaching in either algebra or geometry.

A major in mathematics comprises not less than twelve term hours of work completed subsequent to a year's course in calculus and elected with the approval of the departmental adviser.

A minor in mathematics comprises not less than twelve term hours of work completed subsequent to any one of courses 103C, 104C, or 116 and elected with the approval of the departmental adviser.

100A. Elementary Algebra. 4 term hours. Summer and fall terms. Mr. Cain.
Designed for students who present for admission only one year of algebra. For such students it should precede all other college courses in mathematics. A review of the important topics of the first year's course, together with the work usually given in the third term of the high-school course: numerical and literal quadratic equations, problems, fractional, negative and literal exponents, radicals, imaginaries, functions and their graphs.

100C. Plane Trigonometry. 4 term hours. Prerequisite: Algebra 100A or a year and a half of high-school algebra, and at least one year of Euclidean geometry. Mr. Ackley.
Trigonometric ratios, identities and equations, inverse functions, theory and use of logarithms, solutions of triangles.

101T. Arithmetic. 4 term hours. Mr. Cain.
Lectures and discussions on the history and teaching of the subject, with assigned reading. Extended treatment of typical problems of applied arithmetic.

115. College Algebra. 4 term hours. Prerequisites: One and one-half years of high-school algebra and one or one and one-half years of high-school geometry, or the equivalent. Miss Ford.
A review of exponents, radicals, and quadratic equations including systems of quadratic equations, progressions, the binomial theorem, complex numbers, theory of equations, including Horner's method, determinants, permutations, and combinations.

116. Analytic Geometry. 4 term hours. Prerequisite: College Algebra 115, Trigonometry 100C. Mr. Ackley.
Analytic geometry of the straight line, circle, and conic sections; change of axes, properties of conics involving tangents, diameters, and asymptotes.

205A. Calculus. 4 term hours. Prerequisite: College Algebra 115, Analytic Geometry 116. Miss Ford.
Course A deals with functions, limits, continuity, the derivative, differentiation of algebraic functions, applications of the derivative, trigonometric, inverse, exponential and logarithmic functions.

210. Surveying. 4 term hours. Prerequisite: Trigonometry. Mr. Ackley.
A course in field work, involving actual problems in surveying and leveling. The final test consists of field notes and a map from a personal survey of an irregular tract.

308T. The Teaching of Algebra. 2 term hours. Mr. Blair.
The aim of this course is to give the prospective teacher the best educational information relating to the content and teaching of algebra in the high school. It is prerequisite to directed teaching in algebra.
309T. The Teaching of Geometry. 2 term hours. Mr. Blair.
The aim of this course is to give the prospective teacher the best educational information relating to the content and teaching of geometry in the high school. It is prerequisite to directed teaching in geometry.

315 A and B. History of Mathematics. 4 term hours. Prerequisite: Analytic Geometry. Mr. Blair.
Treats of the history of geometry and trigonometry from earliest times to the present, and of the history of arithmetic and algebra.

MODERN LANGUAGES

ELISABETH T. ZIMMERMAN
MYRTLE WINDSOR
MARION TAMIN

French

100A. Elementary French. 4 term hours. Miss Windsor.
The rudiments of French grammar, pronunciation, and ear training are stressed. No credit for the work of this term will be given until the year's work is completed.

100B or 100C. Elementary French. 4 term hours. Miss Tamin.
A continuation of 100A for those students who have had the first term.

202. Reading from Modern French Novels and Stories. 4 term hours. Miss Windsor.
This course is intended for those who have had two years of college French or its equivalent. Students having less prerequisite may consult the instructor for adjusting of work and credit. The course consists of readings, resumes, and discussions from the various points of view of language, ideas, and French life.

305. Phonetics. 4 term hours. Prerequisite: Two years of college French or equivalent. Miss Tamin.
The aim of this course is to make scientific study of sounds and their various groupings, so as to develop accuracy in pronunciation. A great deal of corrective work will be done, aside from the study of theories and rules. Required of all students majoring or minoring in French.

German

100A. Elementary German. 4 term hours. Miss Zimmerman.
The work of this course includes the study of the elements of German grammar, oral work, and the reading of simple German. To capable students an opportunity of finishing the year's work by correspondence is offered.

102A, B, or C. Intermediate German. 4 term hours. Miss Zimmerman.
The work of this course covers that of the first term of the second year of German and is also adapted to meet the needs of students who wish credit for German 101C or 102B. It includes a review of grammar, the reading of simple modern German texts, composition based upon them, and the study of poems.
104. Early Elementary Music. 4 term hours. Miss Doty.
This course gives a singing knowledge of syllables in all major and minor keys, study of song material for first three grades, treatment of monotones, experience in presentation and teaching of rote songs, and introduction of notation.

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

109A. Music Appreciation for Rural Schools. 2 term hours. Mrs. Britton.
Stresses beauty through music, as developed by means of a phonograph and records; correlation with other school subjects; and, in general, rhythmic, melodic, and harmonic development.

125S. Summer School Choir. 1 term hour. Rehearsals twice a week. Mr. Maybee.
A summer school choir will be organized open to all students having had choral experience. Material will be used that will be sung in the following spring at the High School Music Festivals.

132. Orchestra. 1 term hour. Rehearsals twice a week. Mr. Amos.
An orchestra will be organized open to all students having had orchestral experience. The organization will appear at various functions during the summer session.

209. Harmony. 4 term hours. Prerequisite: Fundamentals of Music 105 A, B, C, and at least the ability to play hymns. Mr. Henderson.
The 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.

212B. Modern Composers. 4 term hours. Prerequisite: Ancient and Medieval Music 212A, or the consent of the instructor. Mr. Maybee.
Music from the time of Bach to the present-day composers. The development of the orchestra, opera, oratorio, and various other musical forms is worked out with the aid of the piano, voice, and victrola, bringing within the hearing of the students various interpretations of the master works.

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

216A. Voice Culture. 2 term hours. Mr. Maybee.
The work in this course is designed to further the development of the first year's work. The class is divided into sections with the idea of having voices of similar character and quality work together for more intensive and individual study. Suggestions are made to individuals before the class so that all may have the advantage of the work. Songs are taught to the groups and eventually sung by the individual.

320A. Musical Composition and Analysis. 4 term hours. Prerequisite: Fundamentals of Music 105, Harmony 209 A, B, C. Mr. Henderson.
Advanced harmony and the analysis of the various musical forms; working out of original vocal and instrumental selections.
321A. 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 the various instruments of the orchestra, and to study the fundamental principles of playing them.

**PHYSICAL EDUCATION FOR MEN**

**Judson A. Hyames**  
**Frank Householder**  
**Mitchell J. Gary**  
**Herbert W. Read**  
**James A. MacDonald**  
**Charles Maher**

103A. Physical Education. One hour period three days a week. Mr. MacDonald.

Athletics, team games, and general recreation for physical-education programs. Tennis instruction is offered if requested. Mr. Householder.

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

207. Camping and Scouting. 4 term hours. Mr. Read.

Managing and planning of summer camps, including such topics as housing, sanitation, commissary, program, activities; administration of canoeing, hiking, swimming, and various other camp interests.

History, aims, and principles of the Boy-Scout movement. Methods of the patrol and troop are studied. Students are given the opportunity of practical experience in the various phases of scouting and woodcraft. Particular emphasis is placed on the value of the scout program in supplementing the influences of the home, church, and school life of the adolescent boy. Those completing the course satisfactorily are awarded the standard leader's diploma, issued by the Boy Scouts of America.

208. Fundamentals and Technique of Football. 3 term hours. Mr. Gary.

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 formations of plays, generalship, signal systems, and scouting. Some problems of the coach. Study of the rules.

209. Fundamentals and Technique of Basketball. 3 term hours. Mr. Read.


210. Fundamentals and Technique of Baseball. 3 term hours. 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.

211. Fundamentals and Technique of Track and Field. 3 term hours. Mr. Gary.

The best accepted forms of starting, hurdles, 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.
302T. Organization and Administration of Physical Education. 4 term hours.  
Mr. Hyames.  
The planning of 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  
buildings, grounds, swimming pools, athletic fields, stadia. This course gives  
credit in education.

306. First Aid and Athletic Training. 4 term hours. Mr. Macdonald.  
Knowledge and skill in meeting emergencies, use of massage in treatment  
of sprains and bruises, use of hot and cold applications.

320. Playground and Community Recreation. 4 term hours. Mr. Hyames.  
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

MARY BOTTJE  
ISABEL CRANE  
ELIZABETH GARDNER  
MARION SPALDING

Each student is required to take both a physical and a medical examination  
upon entering and is then assigned to the type of activity for which she is  
best fitted. No student is excused from physical education.  
The grey tank suit which is required for swimming may be purchased at  
the Co-operative Store.  
Students are not permitted to earn more than one credit in physical educa-

tion in any one term and are not given credit for more than three terms of  
the same activity, but program adjustments are arranged to take care of  
those with physical handicaps.

PHYSICAL EDUCATION PRACTICE


110. Swimming. Miss Bottje, Miss Gardner.

111. Archery. Miss Spalding.

113. Tennis. Miss Bottje, Miss Spalding.

114. Golf. Miss Bottje.
Practice of form for the various shots, with some work on the  
course.

115. Folk Dancing. Miss Crane.
Folk dances, country dances, and clogs.


120. Badminton. Miss Gardner.
Badminton, ring tennis, shuffle board.

121. Interpretive Dancing. Miss Gardner.

333. Nature Guiding and Recreational Activities. 4 term hours. Miss Bottje.  
For description of course, see page 77.

334. Public School Physical Education. Miss Crane.  
A survey of the needs and interests of children as to physical education  
and presentation of suitable activities. This course may be substituted for  
Physical Education courses 233, 350, 331, or 332 which appear in the catalog.
A major in physics consists of 36 term hours. 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.

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 students enrolled in the summer.

105A. Introduction to Physical Science. 4 term hours. Dr. Rood. This course is designed for students who want to do work in physics but are not adequately prepared to do the more mathematical courses, 203 A, B, and C, which are required in engineering, medicine and dentistry, and of those students preparing to teach the subject.

Students who have had courses in physics in the high school, as well as those who have had no previous courses in the subject, may elect this course for credit.

203A. Mechanics and Sound. 5 term hours. Prerequisite: High-school physics and trigonometry. Mr. Fox.
A general college course in mechanics of solids and fluids. The last part of the term is devoted to the study of sound. The work consists of demonstration lectures and recitations with illustrative problems.
Classroom, 5 double periods a week; laboratory, 2 double periods a week.

203B. Heat and Light. 5 term hours. Prerequisite: Mechanics and Sound 203A. Dr. Rood.
A general course dealing with the phenomena of heat and light.
Classroom, 5 double periods a week; laboratory, 2 double periods a week.

203C. Magnetism and Electricity. 5 term hours. Prerequisite: Mechanics and Sound 203B. Dr. Rood.
A college course in magnetism and electricity. The same general plan of presentation is used as in Mechanics and Sound 203A.
Classroom, 5 double periods a week; laboratory, 2 double periods a week.

Note.—Courses 203 A, B, and C constitute a year's work in college physics and should be elected by students who desire a complete unit of credit for this subject either as a foundation for teaching high-school physics or as preparation for more advanced courses in physics and engineering. Either 203B or 203C will be given in response to demand.

210A. Astronomy. 4 term hours. Mr. Fox.
A non-mathematical course in descriptive astronomy for students of general science and others who desire an understanding of the elements of the subject. Open as an elective to students of all curricula.

399. Advanced Laboratory Physics. Credit dependent upon work accomplished. Prerequisite: Mechanics and Sound 203 A, B, C and experience in other courses offered in this department. Dr. Rood, Mr. Fox.
Work may be done in any field of physics. This course should be elected by students only after consultation with the instructor who will supervise it.
RURAL EDUCATION

WM. MCKINLEY ROBINSON  KATHRYN LEEKE
KATIE CARPENTER  ANNA C. LUBKE
ANNE HOLDFORD  MARIE SCHMITT

Additional information relating to the work of the Department of Rural Education may be found on the following pages:
Facilities for training for work in rural education available at Western State Teachers College, pages 24, 39.
Certificates granted, pages 43 to 45.
Curricula offered, pages 59, 60, 61.
Attention is called to the course in Music Appreciation 109A, which is especially designed for students in one-teacher, consolidated, and village schools.
Advanced courses in Rural Education majors to be chosen from courses numbered 345-348.

145. Curriculum. 4 term hours.
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 comparison of the Michigan State Course of Study with the courses of other states.

240. Principles of Teaching. 3 term hours.
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.

340. Rural Education. 4 term hours. Dr. Robinson.
This course deals with the general questions of teaching, supervising, and administering rural schools. Executive facility and efficiency in the whole work of the school are the major considerations.

Note.—Rural Economics 240 will be offered in the summer term, 1939.

345, 346, 347. Rural Education. (Seminar). 2 or 4 term hours. Prerequisite: Consent of instructor. Dr. Robinson.
This is a seminar course for advanced students who are interested in keeping abreast of current progress in rural education. The best material in print on rural life and education will be read and discussed. A study is made of problems relating specifically to administration, teaching, the curriculum, supervision of all types of rural schools, and the preliminary and in-service preparation of teachers. Research by individual members of the class may be on minor problems or on a major problem reported at the end of the year.

Child Growth and Development. 12 term hours. Miss Holdford, Miss Lubke, Miss Leeke, Miss Carpenter, and Miss Schmitt.
Beginning Monday, June 27, and closing Friday, August 12, this course, open to a limited number of students and covering a period of seven weeks, will be given in cooperation with the W. K. Kellogg Foundation. Provision will be made for half days of intensive, supervised observation in several ungraded rooms approaching one-teacher rural school conditions supplemented by extensive discussion, conferences, lectures, and reading assignments. The course will be an integrated unit concentrating on the problems of child growth and development with special emphasis on those phases influenced or affected in the educational progress by those conditions peculiar to the rural environment.
220A. Principles of Economics. 4 term hours. Mr. Moore.
A study of the fundamental principles of economics and their application to some of the more important of our economic problems. Special emphasis is placed upon the laws of price, the fundamental principles involved in production, and the principles underlying our monetary and banking systems. A few problems such as those presented by the business cycle, inter-regional trade, business organization, and marketing are frequently included.

Note.—Principles of Economics 220 A and B form a single course in Principles of Economics, and are prerequisite to advanced work in the field. A student planning to take only a single term's work in economics should consult the instructor before electing Economics 220A.

220B. Principles of Economics. 4 term hours. Prerequisite: Principles of Economics 220A. Mr. Bigelow.
Primary emphasis is placed upon the principles involved in what is technically known as distribution of wealth. The list of problems studied includes railroad regulation, the control of industrial monopolies, risk bearing, insurance, speculation, public finance, taxation, employment relations, and proposed reforms of our economic system.

223. Economics of Consumption. 4 term hours. Mr. Bigelow.
A study of the present-day problems of the consumer. It helps to establish rational standards of expenditures, based on a careful analysis of human wants and on a consideration of the consumer's available income and of the existing standards of living. Careful analysis is made of the marketing system, investment, insurance, the recent development of installment buying, and the wise use of credit by the consumer.

321. Business Administration. 4 term hours. Prerequisite: Principles of Economics 201 A, B. Mr. Moore.
This course deals with the elementary principles of internal organization and management of industrial enterprises. It includes a discussion of the nature of modern industry; plant location and types of construction; material equipment and power; planning and routing; statistics and accounting; marketing methods and problems; production management; personnel administration; purchasing, traffic, credit, and collections.

HISTORY

107. Medieval Europe, 476-1500. 4 term hours. Miss Seekell.
The Teutonic invasions and their results, Charlemagne's empire, the rise and nature of feudalism, the medieval church and its work, the social and intellectual life of the period, the Crusades, the rise of cities, the development of commerce, and the Renaissance.

108A. Modern Europe, 1500-1763. 4 term hours. Mr. Comfort.
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-wide colonial conflict between France and Great Britain.
108B. Modern Europe, 1763-1870. 4 term hours. Mr. Comfort.
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.

108C. Modern Europe, 1870 to the Present Time. 4 term hours. Dr. Scott.
The history of the Third French Republic, political and social reform in England, the German Empire, the problem of the Near East, the expansion of Europe in Asia and Africa, international relations, the World War, and the problems of reconstruction.

201A. United States History to 1815. 4 term hours. Dr. Knauss.
This course begins with the European background of American history, traces the origin and growth of the colonies, considers 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.

201B. United States History, 1815-1877. 4 term hours. Dr. Russel.
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.

201C. United States History, 1877 to the Present Time. 4 term hours. Dr. Weber.
The industrial development of the United States; the coming of big business; the organization of labor; settlement of the Far West; recent industrial, social, and political problems and the efforts to solve them; America as a world power and its part in the Great War; and the history of recent years are the chief topics in this course.

300T. Teaching of the Social Studies. 4 term hours. Prerequisite: Two college courses in history. Dr. S. Burnham.
This course is intended for students in the later-elementary and the junior and senior high-school groups. It deals with the aims, content, organization, presentation, and testing of the social studies. Attention is given to the evaluation of texts, the planning of lessons, the selection and gradation of collateral reading, and the correlation of the social studies with the other branches of the curriculum and with the various activities of the school.

306B. United States History, 1877-1901. 3 term hours. Prerequisite: United States History 201 A, B, C. Dr. S. Burnham.
A study of the rapid industrial progress of the country during this period and of the problems growing out of that development. The tariff, the currency, trusts, labor organizations, and reform movements are among the topics studied.

308. International Relations, 1878-1914. 3 term hours. Dr. Scott.
This course consists of an analysis of the foreign policies of European states as revealed in their diplomatic documents. Its purpose is to aid the student in arriving at an independent view of the causes of the World War.

Note.—A general knowledge of European history, such as may be gained from 108 A, B, C or 109 A, B, C is necessary for an effective understanding of the material studied in this course.

312. Economic Development of the United States. 4 term hours. Dr. Russel.
Analysis of our economic development from colonial times to the present. Such forces and factors as the westward movement, the industrial and agricultural revolutions, the tariff and public finance, conservation, and allied topics will be considered.

314. History of China and Japan. 3 term hours. Dr. Knauss.
A course designed to show in outline the development of civilization in the two countries. A study is made of their chief present-day problems.
341. History-Geography Field Course. 8 term hours (4 in history and 4 in geography). Prerequisite: Consent of instructors. History 201A and Geography 105A are desirable. Dr. Selbert and Mr. Glasgow.

A study of the history and geography of certain selected areas in North America. (The 1938 trip will include areas in the Middle Atlantic states, New England, the St. Lawrence region, and the Hudson Bay area.) The class will spend four and one-half weeks traveling in the areas studied and the remainder of the term on the campus preparing reports and attending lectures.

POLITICAL SCIENCE

230A. National Government. 4 term hours. Mr. Shilling.

A study of the national government of the United States, including its structure, functions, and operations, with special stress on the last two.

333. Public Administration. 3 term hours. Prerequisite: Political science 230 A, B or consent of the instructor. Mr. Shilling.

A general course in the theory and practice of public administration designed especially for students interested in the various governmental services. The discussions and readings will center around problems connected with organization, personnel, administration including administrative law, and public relations.

336. Comparative Government. 3 term hours. Prerequisite: National Government 230A. Dr. Weber.

This course aims to acquaint the student with the structure, problems, and workings of the governments of the more important European countries.

A study is made of England, France, Germany, Italy, Russia, and Switzerland. Special emphasis is given to problems of administration, civil service, taxation, and foreign relations.

SOCIOLOGY

241A. Principles of Sociology. 4 term hours.

A discussion of the psychological approach to the study of sociology. Some consideration is given to the biological basis of personality and social life. The chief emphasis is upon the social origin and character of human nature and individuality.

241B. Principles of Sociology. 4 term hours. Prerequisite: Society and the Individual 241A. Mr. Kercher.

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.

343. Population. 4 term hours. Prerequisite: Principles of Sociology 241 A, B, or consent of the instructor. Mr. Kercher.

Four objectives will be attempted in this course: First, a review of population theory from Malthus to the present. Second, a survey of the outstanding facts with respect to quantitative and qualitative changes in world population, but more especially in the population of the United States. Third, an analysis of the causal factors underlying contemporary changes. And fourth, an interpretation of the social and biological significance of present population trends.

350. Educational Sociology. 4 term hours. Prerequisite: Principles of Sociology 240A, B, General Psychology 200, Educational Psychology 250A.

This course is a study of the relation of education to social conduct. The main inquiry is how education may be effective as an instrument for chang-
ing the individual in his social relationships—e.g. in his family, in his group, in his recreation—and in his civic and moral relationships. Emphasis will be placed upon the subject matter, the method of instruction, and the school organization believed to result in desirable changes in the social behavior of individuals and communities.

SPEECH

DOROTHY M. ECCLES
CARROL P. LAHMAN

105A. Fundamentals of Speech. 4 term hours. Miss Eccles, Miss Lindblom, 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 the body for effective communication. Credit will be given for this course alone, but it is strongly urged that A and B be taken as a unit.

Note.—This course may be counted toward fulfillment of a minimum requirement in Group I.

105B. Fundamentals of Speech. 4 term hours. Prerequisite: Fundamentals of Speech 105A. Miss Eccles, Miss Lindblom.

Further study of principles, with additional opportunity for individual practice. Students interested in speech are advised to elect both A and B the first year.

Note.—This course may be counted toward fulfillment of a minimum requirement in Group I.

225. Argumentation and Debate. 4 term hours. Prerequisite: Fundamentals of Speech 105 A, B or consent of the instructor. Miss Lindblom.

A thorough study of the principles of argumentation and frequent practice in debating current public questions. Attention is also given to the problems of coaching and judging debates. Students planning to participate in inter-collegiate debate are advised, so far as possible, to elect this course first.

231. Principles of Speech Correction. 4 term hours. Dr. Van Riper.

This course deals with the methods of examination and treatment of the common disorders of speech. The various types of speech defectives will be presented and correction techniques demonstrated.

300T. Applied Speech Correction. 4 to 8 term hours. Prerequisite: Fundamentals of Speech 105 A, B, Introduction to Speech Correction 230 and Principles of Speech Correction 231. Dr. Van Riper.

This course is for students interested in the actual practice of speech correction. The course will involve training in the remedial treatment of speech defectives in the college clinic and schools associated with the college, service in a traveling speech clinic, and the study of the principles of clinical practice.
TRAINING DEPARTMENT

DIRECTED TEACHING

The Campus Training School is open in the summer session from 9:00 A.M. to 12:00 M. Courses in observation and directed teaching are offered.

Directed teaching assignments are reserved for students who have not been in residence during the other terms, and for those who can complete the work for a life certificate. Since the number of such opportunities is limited, application should be made to the Director of the Training School well in advance of the summer-session enrollment day.

Pupil enrollment is by application. Children of students attending the summer session are among those accepted, but reservations must be made in advance. The work is designed to furnish profitable experience for the children, rather than to provide opportunity for the making up of grades by those who have failed of promotion.

One room in the Training School will be open under the guidance of a teacher trained in special education, for children of elementary school age who present problem cases, such as reading or speech difficulties. An opportunity will thus be afforded for interested students to observe skillful remedial work in these fields.

Students enroll for teaching at the Training School office on enrollment day. At this time assignment is made to a definite grade and supervisor.

Class meetings with the supervisors are held Mondays, Tuesdays, Thursdays and Fridays, 7:30-8:30 A.M. Meetings with the director are held Wednesdays 7:00-8:00 A.M. All who enroll for teaching must reserve the hours from 8:00 to 12:00.

Students enrolled for directed teaching are advised not to take extra studies the same term.

371, 372. Directing Teaching. 4 term hours each. Prerequisite: General Psychology 200, Principles of Teaching 240 or 251, adequate academic and professional training in the subject or subjects to be taught, and one-fourth as many honor points as term hours of credit earned. Miss Steele, grade and special supervisors.

These courses include the teaching of classes in the training school, the observation of lessons taught by the supervisors, the study and measurement of children as individuals and in groups, and meetings with the supervisors of directed teaching and with the Director of the Training School.

Students are urged to become as familiar as possible with the spirit and general workings of the training school.

375. Theory and Observation. 4 term hours. Prerequisite: Maturity and teaching experience. Miss Steele, 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.
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