1934

Details of Curricula 1934-1935

Western Michigan University

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 DETAILS OF

CURRICULA

OFFERED BY

Western State Teachers College

1934-1935

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

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

Note 3. A candidate presenting credits as a graduate of a Michigan County Normal School and who in addition thereto presents entrance credits satisfying the requirements of this institution shall be granted—
1. For the Life Certificate, 40 term hours;
2. For the Five Year Certificate, 40 term hours;

CREDITS ORDINARILY ACCEPTED FROM COUNTY NORMAL

<table>
<thead>
<tr>
<th>Course</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Psychology</td>
<td>4</td>
</tr>
<tr>
<td>Practice Teaching</td>
<td>4</td>
</tr>
<tr>
<td>Teachers' Art</td>
<td>4</td>
</tr>
<tr>
<td>Music</td>
<td>4</td>
</tr>
<tr>
<td>Arithmetic</td>
<td>4</td>
</tr>
<tr>
<td>Agriculture</td>
<td>4</td>
</tr>
<tr>
<td>Psychology of Reading</td>
<td>4</td>
</tr>
<tr>
<td>Grammar (English elective)</td>
<td>4</td>
</tr>
<tr>
<td>U. S. History</td>
<td>4</td>
</tr>
<tr>
<td>Geography (elective)</td>
<td>4</td>
</tr>
</tbody>
</table>

40 term hours

"Note 4. Not more than one-fourth of the number of hours necessary for any certificate or degree may be taken in extension or by correspondence. Such credit, however, cannot be applied to modify the minimum or final resident requirements."
DETAILS OF CURRICULA

General Regulations

In studying the following details with regard to the general and specific requirements for degrees and certificates, these facts should be kept 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. The four-year requirements for the life certificate are not retroactive; that is, a student who has begun his work for a life certificate on the three-year basis will be able to complete his work for the life certificate on that basis, provided he shall have accomplished this work before September 1, 1936. Such students should refer to the 1931-1932 catalogue for requirements.

3. A two-year curriculum leading to a five-year 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 the college.

4. 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 COLLEGES

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 the 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. 1899]

“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 Instructional Departments of the State Teachers Colleges of Michigan shall be classified in Groups as follows:

Group I. Ancient Language and Literature; Modern Language and Literature; English Language and Literature; Certain courses as indicated in Department of Speech.
Group II. Astronomy; Anatomy; Biology; Botany; Chemistry; Geography; Geology; Mathematics; Nature Study; Physics; Physiology; Hygiene; Psychology; Zoology; Certain courses as indicated in Agriculture.
Group III. History; Political Science; Philosophy; Economics; Sociology.
Group IV. Education (includes methods courses and practice teaching)
Group V. Art; Music.
Group VI. Agriculture; Commerce; Home Economics; Industrial Arts.
Group VII. Physical Education; Health.

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 \( \frac{2}{3} \) 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 29, 30). 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.
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). See "Special Note" below.

Degrees

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 III, is eligible for the degree of Bachelor of Arts.

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, 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 8 and 9 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) Before being admitted to the regular program of work of the third year, the student 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.

(2) All freshmen must carry Rhetoric 104 A, B, C.

(3) All students who expect to receive a degree and life certificate must present at least 12 term hours of credit in rhetoric.

(4) To satisfy the minimum requirements in Groups I, II, and III, the student shall not present a series of isolated courses. On the other hand, to satisfy these minimum requirements in Groups II and III, the student shall not present more than 12 term hours in any one subject.

(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) All students who are planning to pursue the regular program of work of the third and fourth years are required to present a credit in General Psychology 200 or its equivalent. This course should be elected by students in residence during the sophomore year.

(7) All students who expect to obtain a degree and life certificate are required to present credits in the following courses: Educational Psychology 203 A, B; Principles of Teaching 230; History of Educational Thought 433; Practice Teaching 301, 302.

(8) A student will not be permitted to carry practice teaching if he is deficient in honor points.

(9) Freshmen must carry physical education for at least two terms. At least three credits in physical education must have been earned by the end of the sophomore year. All candidates for a degree and life certificate must have obtained a credit in library methods and five credits in physical education. In their five terms of physical education, women must include one individual sport and one team sport.

(10) All candidates for the degree and life certificate must have spent at least thirty-six weeks in residence at the college.

(11) The law of Michigan requires every candidate for a certificate or degree to take “a course of six one-hour lectures on the form and functions of our federal and state governments, and of counties, cities, and villages.”

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 purposes 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. Degrees and Life Certificate Curricula

<table>
<thead>
<tr>
<th>Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>11</td>
</tr>
<tr>
<td>Art and Music</td>
<td>12</td>
</tr>
<tr>
<td>Business Administration</td>
<td>13</td>
</tr>
<tr>
<td>Commerce</td>
<td>14</td>
</tr>
<tr>
<td>Early Elementary</td>
<td>15</td>
</tr>
<tr>
<td>Home Economics</td>
<td>16</td>
</tr>
<tr>
<td>Junior High School</td>
<td>17</td>
</tr>
<tr>
<td>Later Elementary</td>
<td>18</td>
</tr>
<tr>
<td>Manual Arts</td>
<td>19</td>
</tr>
<tr>
<td>Manual Arts and Physical Education</td>
<td>20</td>
</tr>
<tr>
<td>Music</td>
<td>21</td>
</tr>
<tr>
<td>Physical Education for Men</td>
<td>22</td>
</tr>
<tr>
<td>Physical Education for Women</td>
<td>23</td>
</tr>
<tr>
<td>Rural Elementary</td>
<td>24</td>
</tr>
<tr>
<td>Rural High School</td>
<td>26</td>
</tr>
<tr>
<td>Senior High School</td>
<td>27</td>
</tr>
<tr>
<td>Special Education</td>
<td>28</td>
</tr>
</tbody>
</table>

2. Specific details for the two-year curriculum leading to a Five-Year Certificate in Rural Elementary Education are outlined on page 25.
### ART CURRICULUM

(For the preparation of teachers and supervisors of art)

<table>
<thead>
<tr>
<th>Group I</th>
<th>Term</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Rhetoric (in addition)</td>
<td>12</td>
</tr>
<tr>
<td>Group II</td>
<td></td>
<td>General Psychology 200 (in addition)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group III</td>
<td></td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Group IV</td>
<td></td>
<td>Educational Psychology 203 A, B</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Principles of Teaching 230</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>History of Educational Thought 433</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Art Observation 206</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Art Supervision 313</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Practice Teaching 301, 302, 303</td>
<td>12</td>
</tr>
<tr>
<td>Group V</td>
<td></td>
<td>Teachers Art 102</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Industrial Art 103</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elementary Design 109</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Figure Drawing 205</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Art Composition 208</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>History of Art 211 A, B</td>
<td>8</td>
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<tr>
<td></td>
<td></td>
<td>Demonstration Drawing 207</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commercial Art 214</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td>Advanced Design 309</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Advanced Figure Drawing 304</td>
<td>4</td>
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<td>Advanced Art Composition 308</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Art Electives</td>
<td>16</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Group VII</th>
<th>Term</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Physical education: 5 terms. Women must include one individual sport and one team sport.</td>
<td></td>
</tr>
<tr>
<td>Electives (not in art)</td>
<td>18</td>
<td>term hours</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** 1. A course in library methods is required.
# ART AND MUSIC CURRICULUM

*(For the preparation of teachers of art and music)*

## Group I
- Rhetoric (in addition) ................................... 12 term hours

## Group II
- General Psychology 200 (in addition) ................... 5 term hours

## Group III
- .............................. 20 term hours

## Group IV
- Educational Psychology 203 A, B .......................... 6 term hours
- Principles of Teaching 230 .................................. 3 term hours
- History of Educational Thought 433 ....................... 4 term hours
- Art Observation 206 ........................................ 4 term hours
- Art Supervision 313 ...................................... 4 term hours
- Music Education 206 A, B, C .............................. 9 term hours
- Practice Teaching 301, 302, 303 .......................... 12 term hours

## Group V
- Art:
  - Teachers' Art 102 ........................................ 4 term hours
  - Industrial Art 103 ........................................ 4 term hours
  - Elementary Design 109 .................................. 4 term hours
  - Figure Drawing 205 ..................................... 4 term hours
  - Demonstration Drawing 207 ............................... 4 term hours
  - Art Composition 208 ..................................... 4 term hours
  - History of Art 211B ...................................... 4 term hours
  - Advanced Art Composition 308 ........................... 4 term hours

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

## Group VII
- Physical education: 5 terms. Women must include one individual sport and one team sport.
- Electives (not in art or music) .......................... 13 term hours

**Note:** 1. A course in library methods is required.
BUSINESS ADMINISTRATION CURRICULUM

(For the preparation of teachers of economics and for general business education)

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

Group II
Chemistry, physics, geology, botany, biology, zoology .................. 12 term hours
Mathematics 100 A, B, C; or 103 A, B, C; or 104 A, B, C .......... 12-15 term hours
Introduction to Statistics 251 .................................. 4 term hours
General Psychology 200 .......................................... 5 term hours

Group III
Principles of Economics 201 A, B .................................. 8 term hours
Financial Organization 202 ....................................... 4 term hours
General Business Administration 302 ................................ 4 term hours
Corporations 303 ................................................... 4 term hours
Marketing 304 A, B ................................................ 6 term hours
Transportation 305 A, B, C ....................................... 6 term hours
Business and Government 306 ..................................... 4 term hours
United States History 201C (201 A, B elective) .................... 4 term hours
Economic Development of the United States 303 ....................... 4 term hours
Political Science 201 A, B ......................................... 12 term hours

Group IV
Educational Psychology 203 A, B .................................. 6 term hours
Principles of Teaching 230 ........................................ 3 term hours
Principles of Secondary Education 320 ................................ 4 term hours
Practice Teaching 301, 302 ....................................... 8 term hours
History of Educational Thought 433 ................................ 4 term hours

Group VI
Accounting 201 A, B, C ........................................... 12 term hours
Business Law 304 A, B, C .......................................... 9 term hours

Group VII
Physical education: 5 terms
Electives ............................................................ 19-22 term hours

Note: 1. A course in library methods is required.
### COMMERCE CURRICULUM

(For the preparation of teachers of commerce)

<table>
<thead>
<tr>
<th>Group I</th>
<th>Rhetoric (in addition)</th>
<th>20 term hours</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Group II</th>
<th>Year sequence in biology, chemistry, geology, geography, mathematics, physics</th>
<th>12 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Elective</td>
<td>8 term hours</td>
</tr>
<tr>
<td></td>
<td>General Psychology 200</td>
<td>5 term hours</td>
</tr>
</tbody>
</table>

| Group III | Principles of Economics 201 A, B | 8 term hours |
|           | Financial Organization 202       | 4 term hours |
|           | Electives from third-or fourth-year courses | 12 term hours |

| Group IV | Educational Psychology 203 A, B | 6 term hours |
|----------| Principles of Teaching 220      | 3 term hours |
|          | History of Educational Thought 433 | 4 term hours |
|          | Principles of Secondary Commercial Education 305 | 3 term hours |
|          | Practice Teaching 301, 302, 303 | 12 term hours |
|          | Teaching of Shorthand and Typewriting 202 | 2 term hours |
|          | Teaching of Handwriting 100 | 2 term hours |
|          | Teaching of Bookkeeping 204 | 2 term hours |
|          | Teaching of Junior Business Science 205 | 2 term hours |

| Group VI | Shorthand and Typewriting 102 A, B, C | 12 term hours |
|----------| Accounting 201 A, B, C | 12 term hours |
|          | Accounting 301, 302, or 303 | 4 term hours |
|          | Business Law 304 A, B, C | 9 term hours |

<table>
<thead>
<tr>
<th>Group VII</th>
<th>Physical education: 5 terms. Women must include one individual sport and one team sport.</th>
<th>38 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** 1. A course in library methods is required.
EARLY ELEMENTARY CURRICULUM

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

<table>
<thead>
<tr>
<th>Group I</th>
<th>20 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric (in addition)</td>
<td>12 term hours</td>
</tr>
<tr>
<td>Speech 101 A, B (in addition)</td>
<td>8 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group II</th>
<th>20 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nature Study 231 (in addition)</td>
<td>4 term hours</td>
</tr>
<tr>
<td>General Psychology 200 (in addition)</td>
<td>5 term hours</td>
</tr>
</tbody>
</table>

| Group III | 20 term hours |

<table>
<thead>
<tr>
<th>Group IV</th>
<th>6 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Psychology 203 A, B</td>
<td>3 term hours</td>
</tr>
<tr>
<td>Principles of Teaching 230</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Psychology of Reading 212</td>
<td>4 term hours</td>
</tr>
<tr>
<td>History of Educational Thought 433</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Early Elementary Education 140, 241A, 241B</td>
<td>12 term hours</td>
</tr>
<tr>
<td>Stories for Childhood 242</td>
<td>12 term hours</td>
</tr>
<tr>
<td>Psychology of Childhood 340</td>
<td>12 term hours</td>
</tr>
<tr>
<td>Teaching of Handwriting 100</td>
<td>12 term hours</td>
</tr>
<tr>
<td>Practice Teaching 301, 302, 303</td>
<td>12 term hours</td>
</tr>
<tr>
<td>One of the following:</td>
<td>3 term hours</td>
</tr>
<tr>
<td>Early Elementary Problems 441</td>
<td>3 term hours</td>
</tr>
<tr>
<td>Parent Education 442</td>
<td>3 term hours</td>
</tr>
<tr>
<td>Nursery School Education 443</td>
<td>3 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group V</th>
<th>4 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teachers Art 102</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Illustrative Handwork 107</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Music 104</td>
<td>4 term hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group VII</th>
<th>37 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical education: 5 terms. Women must include one individual sport, one team sport, and Early Elementary Physical Education 230</td>
<td>37 term hours</td>
</tr>
<tr>
<td>Electives</td>
<td>37 term hours</td>
</tr>
</tbody>
</table>

Note: 1. A course in library methods is required.
HOME ECONOMICS CURRICULUM
(For the preparation of teachers and supervisors of home economics)

Group I
Rhetoric (in addition) ........................................ 20 term hours

Group II
Chemistry 103 A, B, C and 203 ................................ 16 term hours
Biology 201 ......................................................... 4 term hours
Physiology 211C .................................................... 4 term hours
General Psychology 200 ........................................... 5 term hours

Group III ................................................................. 20 term hours

Group IV
Educational Psychology 203 A, B ................................ 6 term hours
Principles of Teaching 230 ........................................ 3 term hours
History of Educational Thought 433 ......................... 4 term hours
Home Economics Education 209 ................................ 4 term hours
Home Economics Education 409 ................................ 4 term hours
Practice Teaching 301, 302, 303 ................................ 12 term hours

Group V
Costume Design 110 ................................................. 4 term hours
Home Furnishing 210 ................................................. 4 term hours

Group VI
Introductory Home Economics 101, 102 ....................... 4 term hours
Clothing 103 and 205 .............................................. 8 term hours
Foods 104 and 312 .................................................. 8 term hours
Home Management 306 ............................................ 4 term hours
Nutrition 206 ......................................................... 4 term hours
Home Mechanics 300 .............................................. 2 term hours
Electives in Home Economics (or related departments) .... 20 term hours

Group VII
Physical education: 5 terms, including one individual sport
and one team sport.
Electives ............................................................. 20 term hours

Note: 1. A course in library methods is required.
### JUNIOR HIGH SCHOOL CURRICULUM

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

<table>
<thead>
<tr>
<th>Group I</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</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</th>
<th>20 term hours</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Group IV</th>
<th>6 term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Psychology 203 A, B</td>
<td>3 term hours</td>
</tr>
<tr>
<td>Principles of Teaching 230</td>
<td>4 term hours</td>
</tr>
<tr>
<td>History of Educational Thought 433</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)</td>
<td>4 term hours</td>
</tr>
<tr>
<td>Practice Teaching 301, 302, 303</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</th>
<th>5 terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical education: Women must include one individual sport, one team sport, and Junior- and Senior-High-School Physical Education 232.</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 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 minor, consisting of twelve hours each.
LATER ELEMENTARY CURRICULUM
(For the preparation of teachers of Grades 3, 4, 5, and 6)

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

Group II
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 .................................................................................. 24 term hours

Group IV
Educational Psychology 203 A, B ............................................... 6 term hours
Principles of Teaching 230 ..................................................... 3 term hours
Psychology of Reading 212 .................................................... 4 term hours
Later Elementary Education 211 ............................................... 4 term hours
Teaching of Handwriting 100 ................................................... 2 term hours
History of Educational Thought 433 ......................................... 4 term hours
Practice Teaching 301, 302, 303 .............................................. 12 term hours

Group VII
Physical education: 5 terms, including one individual sport, one team sport, and Later-Elementary Physical Education 231
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 101
Teaching of Geography in Grades 212
Teaching of Social Studies 202

Group V
Music 105
Teachers Art 102

2. A course in library methods is required.
<table>
<thead>
<tr>
<th>Group</th>
<th>Course</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group I</td>
<td>Rhetoric (in addition)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>General Psychology 200 (in addition)</td>
<td>5</td>
</tr>
<tr>
<td>Group II</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Group III</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Group IV</td>
<td>Educational Psychology 203 A, B</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Principles of Teaching 230</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>History of Educational Thought 433</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Teaching of Manual Arts 302</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Vocational Education 260</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Practice Teaching 301, 302, 303</td>
<td>12</td>
</tr>
<tr>
<td>Group VI</td>
<td>Printing 116A</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Mechanical Drawing 111 A, B</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>General Shop 212</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Advanced Benchwork 103A</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Woodfinishing 207</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Sheet Metal 108 or 222, or 224A</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Shop Organization 301</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Electives in manual arts</td>
<td>20</td>
</tr>
<tr>
<td>Group VII</td>
<td>Physical education: 5 terms</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives (not in manual arts)</td>
<td>33</td>
</tr>
</tbody>
</table>

Note:
1. A course in library methods is required.
2. Students who enter without high-school physics must elect Physics 100 A, B, C.
3. Woodshop 99 and Mechanical Drawing 98 are required of all students who have not had similar work in high school.
4. Ordinarily students will be required to take Applied Mathematics 112 and Physics 160. Those who elect a year of college physics are not required to take either Mathematics 112 or Physics 160. Those who elect a year of college mathematics are not required to take Applied Mathematics 112.
MANUAL ARTS AND PHYSICAL EDUCATION

(For the preparation of teachers of manual arts and physical education)

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

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

Group III ............................................................... 20 term hours

Group IV
Educational Psychology 203 A, B .................................. 6 term hours
Principles of Teaching 230 .......................................... 3 term hours
History of Educational Thought 433 .............................. 4 term hours
Teaching of Manual Arts 302 ...................................... 4 term hours
Psychology of Coaching 210 ......................................... 3 term hours
Organization and Administration of Physical Education 404 ........ 4 term hours
Vocational Education 260 ........................................... 3 term hours
Practice Teaching 301, 302, 303 ................................ 12 term hours

Group VI
Drawing 111A ........................................................... 4 term hours
General Shop 112 ....................................................... 4 term hours
Advanced Benchwork 103 ............................................ 4 term hours
Woodfinishing 207 ..................................................... 4 term hours
General Metal 108 ..................................................... 4 term hours
Printing 116A ............................................................. 4 term hours

Group VII
Football Technique 313 .............................................. 3 term hours
Basketball Technique 315 ............................................ 3 term hours
Baseball Technique 317 ............................................... 3 term hours
Track and Field Technique 319 .................................... 3 term hours
First Aid and Athletic Training 205 ............................... 4 term hours
Physical Education 121 A, B, C ................................... 3 term hours
Physical Education 221 A, B, C ................................... 3 term hours
Elective in physical education ...................................... 2 term hours
Elective in either manual arts or physical education ............ 12 term hours
Electives (not in manual arts or physical education) .......... 16 term hours

Note: 1. A course in library methods is required.
MUSIC CURRICULUM
(For the preparation of teachers and supervisors of music)

Group I
Rhetoric (in addition) ........................................ 20 term hours

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

Group III
.............................................................. 20 term hours

Group IV
Educational Psychology 203 A, B .......................... 6 term hours
Principles of Teaching 230 .................................. 3 term hours
History of Educational Thought 433 ....................... 4 term hours
Music Education 206 A, B, C ............................... 9 term hours
Practice Teaching 301, 302, 303 ........................... 12 term hours

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

Group VII
Physical education: 5 terms. Women must include one individual sport and one team sport.
Electives (not in music) .................................. 17 term hours

Note: 1. A course in library methods is required.
PHYSICAL EDUCATION FOR MEN CURRICULUM
(For the preparation of teachers and supervisors of physical education for men)

Group I .................................................. 20 term hours
  Rhetoric (in addition) .................................. 12 term hours
  Speech 101A (in addition) .............................. 4 term hours

Group II
  General Biology 101 A, B .............................. 8 term hours
  Hygiene 112 ........................................... 4 term hours
  Anatomy 211 A, B ...................................... 8 term hours
  Physiology 211C ....................................... 4 term hours
  General Psychology 200 ................................. 5 term hours

Group III .................................................. 20 term hours

Group IV
  Educational Psychology 203 A, B ....................... 6 term hours
  Principles of Teaching 230 ............................. 3 term hours
  Psychology of Coaching 210 ............................ 3 term hours
  History of Educational Thought 433 .................... 4 term hours
  Organization and Administration of Physical Education 4 term hours
  Principles of Physical Education 403 ................ 3 term hours
  Practice Teaching 301, 302, 303 ....................... 12 term hours

Group VII
  History of Physical Education 202 .................... 3 term hours
  First Aid and Athletic Training 205 ................ 4 term hours
  Principles and Technique of Gymnastic Teaching 301 3 term hours
  Kinesiology 312 ....................................... 4 term hours
  Football Technique 313 ................................ 3 term hours
  Basketball Technique 315 ............................. 3 term hours
  Physiology of Exercise 304 ............................ 3 term hours
  Baseball Technique 317 ................................ 3 term hours
  Track and Field Technique 319 ......................... 3 term hours
  Anthropometry 401 .................................... 4 term hours
  Physical Education 121 A, B, C ......................... 3 term hours
  Swimming 327 .......................................... 1 term hour
  Camping and Scouting 332 ............................... 4 term hours
  Physical Education 221 A, B, C ......................... 3 term hours
  Playground and Community Recreation 406 ............. 4 term hours
  Electives (not in physical education) .................. 24 term hours

Note: 1. A course in library methods is required.
PHYSICAL EDUCATION FOR WOMEN CURRICULUM

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

Group I
Rhetoric (in addition) ......................................................... 20 term hours
Speech 101A (in addition) .................................................. 12 term hours

Group II
Biology 101 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 ........................................................................ 20 term hours

Group IV
Educational Psychology 203 A, B ........................................ 6 term hours
Principles of Teaching 230 .................................................. 3 term hours
History of Educational Thought 433 ................................. 4 term hours
Methods in Physical Education 217 .................................... 4 term hours
Administration and Organization of Physical Education 325 2 term hours
Principles of Physical Education 421 ..................................... 3 term hours
Practice Teaching 301, 302, 303 ...................................... 12 term hours

Group V
Musical Construction 229 ..................................................... 4 term hours

Group VII
Introduction to Physical Education 120 ............................... 2 term hours
History of Physical Education 121 ........................................ 2 term hours
Theory of Dancing 215 ..................................................... 1 term hour
First Aid and Massage 218 .................................................. 1 term hour
Playground Organization 219 .............................................. 4 term hours
Applied Anatomy 220 ...................................................... 4 term hours
Theory of Athletics 222 ..................................................... 3 term hours
Theory of Swimming 224 ................................................... 2 term hours
Rhythmic Plays and Singing Games 318 ............................... 2 term hours
Theory of Games 320 .......................................................... 2 term hours
Individual Gymnastics 323 .................................................. 4 term hours
Advanced Athletics 324 .................................................... 3 term hours
Modern Problems in Physical Education 401 ........................ 4 term hours
Community Recreation, Scouting, Camp Fire 422 ................. 4 term hours
Health Education 190 ...................................................... 4 term hours

Required In Addition from Group VII:
Dancing 110 A, B, C; Physical Education 113 A, B, C; Swimming 125 A, B; Soccer 126A; Basketball 126B; Baseball 126C; Dancing 210A; Interpretative Dancing 210 B, C; Physical Education 213 A, B, C; Swimming 225 A, B, C; Hockey 226A; Basketball 226B; Baseball 226C; Interpretative Dancing 310 A, B; Dancing 311; Physical Education 313 A, B; Golf 313C; Swimming 325 A, B, C; Soccer 326A; Basketball 326B; Baseball 326C.

Electives (not in physical education) ...................................... 27 term hours

Note: 1. A course in library methods is required.
RURAL ELEMENTARY CURRICULUM

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

Group I
Rhetoric (in addition) .......................................................... 20 term hours

Group II
Biology, chemistry, geology, mathematics, physics ...................... 12 term hours
Geography 101 A, B ................................................................. 8 term hours
General Psychology 200 .......................................................... 5 term hours

Group III
Rural Economics 201B (in addition) ............................ 4 term hours
Rural Sociology 201C (in addition) ........................................ 4 term hours

Group IV
Educational Psychology 203 A, B ............................................. 6 term hours
Principles of Teaching 230R .................................................. 3 term hours
History of Educational Thought 433 ....................................... 4 term hours
Rural Education 201A ............................................................. 4 term hours
Rural education (advanced courses) ......................................... 4 term hours
Curriculum 101 ................................................................. 4 term hours
Teaching of Handwriting 100 ............................................... 2 term hours
Practice Teaching 301, 302, 303 ........................................... 12 term hours

Group VII
Physical education: 5 terms. Women must include one individual sport, one team sport, and Rural-School Physical Education 233.

Electives ........................................................................... 66 term hours

Note: 1. Students will choose among the following according to suggestion of departmental adviser:

Group II
Agriculture 141
Hygiene 112
Nature Study 231, 232, or 233
Arithmetic 101
Teaching of Geography 212
Teaching of Social Studies 202
Psychology of Reading 212
Stories for Childhood 242
Supervision 371

Group V
Teachers Art 102
Industrial Art 103
Music 106

Group VI
Home Economics 120 or equivalent

Group VII
Health Education 190

2. A course in library methods is required.
RURAL ELEMENTARY CURRICULUM

(Two Years in Length)

Leading to a FIVE-YEAR CERTIFICATE for teachers of one-teacher, consolidated, and village schools

Group I .................................................. 12 term hours
Rhetoric 104 A, B, C (in addition) ......................... 9 term hours

Group II .................................................. 4 term hours
Arithmetic 101..............................................
Nature Study 231, 232, 233 or Agriculture 141...........
Geography 101 A, B...........................................

Group III .................................................. 12 term hours
Rural Economics 201B (in addition)......................... 4 term hours
Rural Sociology 201C (in addition)........................ 4 term hours

Group IV .................................................. 4 term hours
Principles of Teaching 230R.................................
Practice Teaching 201....................................
Curriculum 101.............................................
Rural Education 201 A.....................................
Teaching of Handwriting 100................................

Group V .................................................. 4 term hours
Music 106................................................................
Teachers Art 102..............................................

Group VI .................................................. 2 term hours
Home Economics 120 or equivalent...........................

Group VII
Physical education: 3 terms. Women must include one individual sport, one team sport, and Rural-School Physical Education 233

Electives .................................................. 11 term hours

Note: 1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups I and III.
2. A course in library methods is required.
3. A minimum of 96 term hours is required for completion of this curriculum.
RURAL HIGH SCHOOL CURRICULUM

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

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

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

Group III ......................................................... 20 term hours
  Rural Economics 201B (in addition) ............... 4 term hours
  Rural Sociology 201C (in addition) ............... 4 term hours

Group IV
  Educational Psychology 203 A, B .................. 6 term hours
  Principles of Teaching 230R .......................... 3 term hours
  History of Educational Thought 433 ............... 4 term hours
  Rural Education 201A .................................. 4 term hours
  Rural education (advanced courses) ............... 6 term hours
  Practice Teaching 301, 302 .......................... 8 term hours

Group VII
  Physical education: 5 terms. Women must include one individual sport, one team sport, and Junior- and Senior-High-School Physical Education 232.

Electives ......................................................... 76 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 minor must involve subjects regularly taught in the high school grades.
  5. Students must also present two sequences, other than the major and minor, consisting of 12 term hours each.
  6. The remaining units are to be taken in groups of three or miscellaneous with the consent of the 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 142 A, B, C; Soils 143; Farm Crops 144; Horticulture 145; 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

SENIOR HIGH SCHOOL CURRICULUM
(For the preparation of teachers of Grades 9, 10, 11, 12)

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

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

Group III ........................................ 20 term hours

Group IV
Educational Psychology 203 A, B .......................... 6 term hours
Principles of Teaching 230 ................................ 3 term hours
History of Educational Thought 433 .................... 4 term hours
Principles of Secondary Education 320 .................. 4 term hours
Practice Teaching 301, 302 .............................. 8 term hours

Group VII
Physical education: 5 terms. Women must include one individual sport, one team sport and Junior- and Senior-High-School Physical Education 232.

Electives ........................................... 90 term hours

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

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

Group I
Rhetoric (in addition) ........................................... 12 term hours
Speech 101A (in addition) ...................................... 4 term hours

Group II
General Biology 101 A, B, C .................................... 12 term hours
Genetics 302 ....................................................... 4 term hours
Eugenics 303 ....................................................... 4 term hours
Organic Evolution 301 .......................................... 4 term hours
Hygiene 112 (or Health Education 190) .................... 4 term hours
Laboratory science (other than biology) or mathematics . 12 term hours
General Psychology 200 ......................................... 5 term hours
Abnormal Psychology 300 ..................................... 4 term hours

Group III
Sociology 201 A, B; 301B ........................................ 12 term hours
Elective ............................................................. 8 term hours

Group IV
Educational Psychology 203 A, B ............................. 6 term hours
Principles of Teaching 230 ...................................... 3 term hours
Education of Exceptional Children 361 .................... 4 term hours
Mental Tests 350 ................................................... 4 term hours
Mental Deficiency 362 .......................................... 4 term hours
Mental Hygiene 365 ............................................. 4 term hours
Methods of Teaching Subnormal Children 364 .......... 2 term hours
History of Educational Thought 433 ....................... 4 term hours
Teaching of Handwriting 100 .................................. 2 term hours
Practice Teaching 301, 302, 303 ............................. 12 term hours

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

Group VI
Home Economics 101, 102 ........................................ 4 term hours
Special Education Shop 208 .................................... 2 or 4 term hours

Group VII
Physical education: 5 terms. Women must include one team sport and one individual sport.
Electives ......................................................... 28 or 30 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. To receive a teaching certificate and recommendation for a position in Special Education, the student must have had at least one year of successful teaching experience.
4. Courses in home economics are not required of men students.
GROUP REQUIREMENTS

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 various 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 best to 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 practice teaching should not be counted as satisfying a part of the requirements for majors or minors in fields such as history, art, or home economics. Uniformly required courses in education; i.e., Educational Psychology 203 A, B, Principles of Teaching 230, History of Educational Thought 433, and Practice Teaching 301, 302, 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 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 301 A, B would constitute “consecutive, coherent courses” with a series of courses in modern European history because of the very obvious way in which an understanding of the latter is supplemented by a knowledge of the former.

4. Students who expect to be recommended for positions in 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 on 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 sixteen hours in chemistry. There is no reason why this should not be combined with eight 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. However, a student may not 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 grouping 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>Related Social Science Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Greek-Roman-Medieval, or 12 English History</td>
<td>12 Political science</td>
</tr>
<tr>
<td>12 Modern Europe</td>
<td>12 Economics</td>
</tr>
<tr>
<td>12 United States (elementary or advanced)</td>
<td>12 Sociology</td>
</tr>
</tbody>
</table>

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

**Natural Sciences**

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.

<table>
<thead>
<tr>
<th>Natural Sciences Example</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. United States history—12</td>
<td>Sociology—8</td>
</tr>
<tr>
<td>2. Economics—12</td>
<td>Economic development of United States—6</td>
</tr>
<tr>
<td></td>
<td>Industrial relations—3</td>
</tr>
<tr>
<td>3. Mathematics—12</td>
<td>Physics—8</td>
</tr>
<tr>
<td>4. Biology—12</td>
<td>Biological nature study—8</td>
</tr>
<tr>
<td>5. Chemistry—12</td>
<td>Bacteriology—8</td>
</tr>
<tr>
<td>6. Political science—12</td>
<td>United States history—8</td>
</tr>
<tr>
<td>7. Spanish—12</td>
<td>English—8</td>
</tr>
</tbody>
</table>
GENERAL DEGREE CURRICULUM
(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 50 to 52 of the annual catalog, except the professional requirements in Group IV, the degree of Bachelor of Arts or Bachelor of Science may be granted without the life certificate.

GROUP REQUIREMENTS

Group I .................................................. 20 term hours
(Ancient Language and Literature; Modern Language and Literature; English Language and Literature; Certain courses as indicated in Department of Speech.)
Rhetoric (in addition) .................................. 12 term hours

Group II .................................................. 20 term hours
(Anatomy; Astronomy; Biology; Botany; Chemistry; Geography; Geology; Mathematics, Nature Study; Physics; Physiology; Hygiene; Psychology; Zoology; Certain courses as indicated in Agriculture.)

Group III .................................................. 20 term hours
(History; Political Science; Philosophy; Economics; Sociology.)

Group VII. Physical Education ......................... 5 terms

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

Credit in Library Methods is required.

The total minimum requirement is 192 term hours.

“Work 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 ⅔ 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. Credits in the required English composition (Rhetoric) and credits in Education which are required in general on all curricula do not count toward majors and minors.

4. No candidate will 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.

ADDITIONAL REGULATIONS GOVERNING STUDENTS AT WESTERN STATE TEACHERS COLLEGE

(1) Before being admitted to the regular program of work of the third year, the student shall have earned at least 12 term hours in each
of the Groups I, II, and III and shall have maintained at least a C average for work already completed.

(2) All freshmen must carry Rhetoric 104 A, B, C. (Composition)

(3) To satisfy the minimum requirements in Groups I, II, and III, the student shall not present a series of isolated courses. In addition in satisfying these minimum requirements in Groups II and III, the student shall not present more than 12 term hours in any one subject.

(4) Freshmen must carry physical education for at least two terms. At least three credits in physical education must have been earned by the end of the sophomore year. All candidates for a degree must have obtained a credit in library methods and five credits in physical education. In their five terms of physical education, women must include one individual sport and one team sport.

(5) The law of Michigan requires every candidate for a certificate or degree to take "a course of six one-hour lectures on the form and functions of our federal and state governments, and of counties, cities and villages."

The above described curriculum leads to a Bachelor's Degree without a Life Certificate.

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 3 years now requires 5; Medicine, formerly a 4-year course, now requires 7 years; etc. A number of professions such as Business Administration and Library Science 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. Western State Teachers College at Kalamazoo, Michigan, offers two and, in some cases, three 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.

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.
BUSINESS ADMINISTRATION
(Combined Curriculum in Letters and Business Administration)

First Year

Rhetoric 104 A, B, C ............................................. 9 term hours
Mathematics 103 A, B, C ........................................... 15 term hours
or
Mathematics 104 A, B, C ........................................... 12 term hours
Biology 101 A, B, C ............................................. 12 term hours
or
Chemistry 101 A, B, C ........................................... 15 term hours
French, German or Spanish 101 A, B, C ......................... 12 term hours

Second Year

Mathematics 211, 227 ............................................. 8 term hours
Accounting 201 A, B, C .......................................... 12 term hours
Psychology 200 .................................................... 5 term hours
Elective ............................................................. 12 term hours

(Modern Language or a Laboratory Science recommended.)

DENTISTRY

First Year

Rhetoric 104 A, B, C ............................................. 9 term hours
Biology 101 A, B, C ............................................. 12 term hours
Chemistry 101 A, B, C or 102 A, B, C ......................... 15 term hours
French or German 101 A, B, C ................................ 12 term hours

Second Year

Chemistry 302 A, B, C ............................................. 15 term hours
*Physics 203 A, B, C .......................................... 15 term hours
Elective 20 term hours (Social Science, English Literature, Mathematics, Psychology or Modern Language)
*Physics must be preceded by Plane Trigonometry. See note under Medicine.
ENGINEERING

First Year

Rhetoric 104 A, B, C ........................................................................ 9 term hours
Mathematics 103 A, B, C ............................................................ 15 term hours
or
Mathematics 104 A, B, C ............................................................ 12 term hours
Chemistry 101 A, B, C or 102 A, B, C .................................... 15 term hours
Fundamentals of Speech 101 A (Fall Term) ......................... 4 term hours
Drawing 202 (Winter Term) ...................................................... 4 term hours
Drawing 201 (Spring Term) ....................................................... 4 term hours

Second Year

Mathematics 205 A, B, C ............................................................ 12 term hours
Physics 203 A, B, C ................................................................. 15 term hours
Economics 201 A, B .................................................................. 8 term hours
Economics 202 or 203 ............................................................... 4 term hours
Elective .................................................................................. 12 term hours

FORESTRY

First Year

Rhetoric 104 A, B, C ........................................................................ 9 term hours
Mathematics 103 A, B, C ............................................................ 15 term hours
or
Mathematics 104 A, B, C ............................................................ 12 term hours
Biology 101 A, B, C .................................................................... 12 term hours
Chemistry 101 A, B, C or 102 A, B, C .................................... 15 term hours

Second Year

Mathematics 210 (Spring Term) .................................................. 4 term hours
Mathematics 211 ........................................................................ 4 term hours
General Botany 221 A, B, C ................................................... 12 term hours
Physics 203 A, B ........................................................................ 8 term hours
Geology 301 A (Fall Term) ......................................................... 4 term hours
Economics 201 A, B .................................................................. 8 term hours
Elective .................................................................................. 8 term hours
JOURNALISM

*First Year

Rhetoric 104 A, B, C .......................................... 9 term hours
Biology 101 A, B, C ........................................... 12 term hours
or
Chemistry 101 A, B, C ........................................ 15 term hours
United States History 201 A, B, C ......................... 12 term hours
French, German or Spanish 101 A, B, C ................. 12 term hours

Second Year

American Literature 120 ...................................... 4 term hours
Introductory Psychology 200 ................................. 5 term hours
Sociology 201 A, B, C ........................................ 12 term hours
Political Science 201 A, B, C ............................... 12 term hours
Economics 201 A, B .......................................... 8 term hours
Economics 202 .................................................. 4 term hours
or
History 303 ...................................................... 3 term hours
Elective .................................................................. 3 or 4 term hours

*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 take Personal Typewriting 100 (without college credit).

LAW

(Combined course in Letters and Law)

First Year

Rhetoric 104 A, B, C .......................................... 9 term hours
Mathematics 103 A, B, C ................................... 12 term hours
or
Chemistry 101 A, B, C ........................................ 15 term hours
or
Biology 101 A, B, C .......................................... 12 term hours
English History 105 A, B, C .............................. 12 term hours
Latin, French, German or Spanish 101 A, B, C ........ 12 term hours

Second Year

English 102 A, B, C .......................................... 12 term hours
or
English 214 A, B, C .......................................... 9 term hours
United States History 201 A, B, C ......................... 12 term hours
Economics 201 A, B, and 202 ............................... 12 term hours
French, German or Spanish 102 A, B, C ................. 12 term hours
MEDICINE

*First Year

Rhetoric 104 A, B, C .............................................. 9 term hours
Biology 101 A, B, C ............................................... 12 term hours
Chemistry 101 A, B, C or 102 A, B, C ....................... 15 term hours
French or German 101 A, B, C ................................... 12 term hours

Second Year

English 102 A, B, C .................................................. 12 term hours
Chemistry 302 A, B, C .............................................. 12 term hours
Physics 203 A, B, C .................................................. 15 term hours
French or German 102 A, B, C ................................... 12 term hours

Third Year

Zoology 252, 253, 254 ............................................. 12 term hours
Psychology 200 ..................................................... 5 term hours
Chemistry 201 A, B ................................................... 8 term hours
French or German .................................................... 12 term hours

(2 years of one language and one of the other must eventually be presented. High School French or German may be used to reduce this requirement.)

*First class medical colleges require 90 semester hours (3 years) of college credit for entrance in addition to high school graduation. If two units of high school Latin are not presented by a student, the deficiency must be made up without college credit. 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.

PHARMACY

First Year

Rhetoric 104 A, B, C .............................................. 9 term hours
Mathematics 103 A, B, C .......................................... 15 term hours
or
Mathematics 104 A, B, C .......................................... 12 term hours
Chemistry 101 A, B, C or 102 A, B, C ....................... 15 term hours
French or German 101 A, B, C ................................... 12 term hours

Second Year

Chemistry 201 A, B (Fall and Winter) ......................... 8 term hours
Introductory Psychology 200 (Spring Term) ................... 5 term hours
Physics 203 A, B, C .................................................. 15 term hours
Economics 201 A, B or Botany 221 A, B (Fall and Winter) 8 term hours
Hygiene 112 (Spring Term) ......................................... 4 term hours
French or German 102 A, B, C ................................... 12 term hours