1944

Bulletin: Western Michigan College of Education Details of Curricula

Western Michigan University
Details of Curricula
DETAILS
OF
CURRICULA

KALAMAZOO, MICHIGAN
1944-1945
The Constitution of the State of Michigan [Act XI, Sec. 10] places the Michigan Colleges of Education under the authority of the State Board of Education subject to such regulations as may be prescribed by the Legislature. In 1903 [Public Act 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 Colleges of Education. 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 Colleges of Education 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 Colleges of Education 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

A. The program of study outlined for the first and second years in the curricula of the Michigan Colleges of Education 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 Colleges of Education or for more advanced work elsewhere.

B. This program represents sixty semester hours of work, at least half of which must fall in Groups I, II, III. The student must complete during the first year at least six semester hours of Rhetoric and at least fifteen semester 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 the fields of his special interest and which broaden his general education.

2. To pursue a curriculum designed to give him the knowledge and skills necessary for teaching in a specific field.

Admission to the program of the third and fourth years is based upon the satisfactory completion of the work outlined under (A) above or upon evidence of equivalent work done satisfactorily elsewhere. In addition the student must satisfy such special tests or examinations as may be prescribed to determine his general intelligence, scholastic aptitude, and fitness for the teaching profession.

SUBJECT GROUPINGS

The Instructional Departments of the Michigan Colleges of Education are classified in groups 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
Anatomy, astronomy, biology, botany, chemistry, geography, geology, hygiene, mathematics, nature study, physics, physiology, psychology, zoology, certain courses as indicated in the Department of Agriculture.

Group III. Social Science
Economics, history, philosophy, political science, sociology

Group IV. Education
Education (includes methods courses and directed teaching)

Group V. Fine Arts
Art, music

Group VI. Practical Arts
Agriculture, business education, home economics, industrial arts, library science, military science

Group VII. Physical Education and Health
Health, physical education

DEGREES DEFINED

BACHELOR OF ARTS (AND TEACHING CERTIFICATE)

The student who regularly completes a curriculum conforming to the degree requirements and embracing at least 90 semester hours from Groups I, II, and III, including at least 8 semester 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 (AND TEACHING CERTIFICATE)

1. The student who regularly completes a curriculum conforming to the degree requirements and embracing more than 30 semester hours from Groups IV, V, VI, and VII is eligible for the degree of Bachelor of Science.
DEGREE REQUIREMENTS

2. The student who otherwise qualifies for the degree of Bachelor of Arts and who has earned at least 54 semester hours in Group II may at his option receive either the degree of Bachelor of Science or the degree of Bachelor of Arts.

GENERAL DEGREE (WITHOUT TEACHING CERTIFICATE)

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 75 to 83 except the professional requirements in Group IV, the degree of Bachelor of Arts or Bachelor of Science may be granted without the teaching certificate.

SECOND BACHELOR'S DEGREE

A graduate of Western Michigan College of Education with the degree of Bachelor of Science who subsequently becomes a candidate for the degree of Bachelor of Arts, or vice versa, is required, in addition to the credits he already has, to complete 30 semester hours of resident credit and to satisfy any other specific requirements for the degree.

DEGREE REQUIREMENTS

Any curriculum leading to the Bachelor's degree and teacher's certificate consists of at least 120 semester hours of credit and must include

<table>
<thead>
<tr>
<th>Group</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>I</td>
<td>at least 12 semester hours</td>
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<tr>
<td>II</td>
<td>at least 12 semester hours</td>
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<tr>
<td>III</td>
<td>at least 20 semester hours</td>
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<tr>
<td>IV</td>
<td>at least 6 semester hours</td>
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<tr>
<td>Rhetoric</td>
<td></td>
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</tbody>
</table>

The remaining semester hours may be selected from the courses regularly offered by the college, subject to the following restrictions:

1. Not more than 40 semester hours may be taken in any one subject.

2. At least three-fourths 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 24 semester hours and at least two minor subjects of not less than 15 semester hours. (A candidate for the elementary provisional certificate may present, instead, 4 minors, 15 semester hours each.) Credits in the required English composition and credits in Education which are required in general on all curricula do not count toward majors or minors.

4. No candidate is eligible for the Bachelor's degree who has not done at least 30 semester hours of work in residence and who has not been in residence during the semester or summer session immediately preceding graduation. (An exception is made in the combined pre-professional curricula. See page 93.)

5. Courses must be selected so that the requirements in some one of the provisional certificate curricula are fulfilled (This requirement does not apply to the General Degree curriculum, without teaching certificate. See page 90.)

6. Students who wish to qualify for the Bachelor's degree without the teacher's certificate will not be required to take the work prescribed under Group IV but must satisfy all the other requirements.
MAJOR AND MINOR REQUIREMENTS AND REGULATIONS

Requirements

(A major is a sequence of courses totaling a minimum of 24 semester hours; a minor is a sequence of courses totaling a minimum of 15 semester hours. Students may, if conditions permit, elect beyond this maximum up to a maximum of 40 hours offered by any department. The maximum permitted in Groups IV-VII is 60 hours.)

1. **General Degree (without Teaching Certificate.)** The academic training shall include a major and two minors. (See page 90.)

2. **Bachelor's Degree and State Elementary Provisional Certificate.** The academic training shall include four minors, or a major (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.

3. **Bachelor's Degree and State Secondary Provisional Certificate.** The academic training shall include one major and two minors, in subjects or subject fields in which the applicant expects to teach.

Regulations and Suggestions

1. In the “Details of Departmental Courses,” pages 112 to 210 of the annual catalog see the introductory statement for each department preceding its description of courses, for its approved major and minor course sequences. Students should consult the departmental advisers for approval of their major and minor programs.

2. All secondary students shall be known as “majors” in the fields of selected departments, e.g., Home Economics, Art, Mathematics, English, etc. If a student chooses to elect a major in each of two or more departments, he will be listed accordingly, e.g., Art and English; Industrial Arts and Mathematics, etc.

3. Decision concerning field of majors must always be made by student before the close of sophomore year or beginning of junior year.

4. Decision concerning pursuance of elementary or secondary curriculum must be made by the close of freshman year or beginning of sophomore year.

5. It is permissible to use as a “group” major a combination of courses from related departments, as in the several science departments and in the several social science departments, if and as approved by departmental advisers.

6. Group requirements (Groups I, II, and III) of the several curricula may be satisfied through the use of major and minor sequences. Likewise short sequential requirements of some of the curricula may sometimes be included as parts of major or minor groupings.

7. Minors may often be related to majors, so as to recognize naturally or closely related fields; for example, mathematics and physics, history and geography, literature and history, etc.

8. Students who wish to major in any of the “special” fields (art, business education, home economics, industrial arts, music, physical education, and special education) are advised to follow the same procedure as indicated in item 1.

Attention is called to the regulation of the State Board of Education* as to the “special” fields which lead to certification in both elementary and secondary grades, when the candidate qualifies in both fields. In respect to this, Western Michigan College of Education at present prepares students in the fields of art, music, and physical education for women.

Restrictions

1. It is usually not permissible to use education as a major or minor in any undergraduate curriculum.

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*Note.—See State Certification Code, page 18, paragraph 5.
2. The following courses are not to be counted as satisfying major and minor requirements:
   a. Required courses in rhetoric (see Group I).
   b. Uniformly required courses in education from Group IV: Human Growth and Development 251, Introduction to Directed Teaching 240 or 351, and Directed Teaching, Laboratory in Education, and General Educational Problems 370 A, B, C. 
   c. Professional courses numbered 300T to 302T. These are courses in teaching school subjects, hence give credit in education.

3. A combination of foreign languages, or of English or American literature with a foreign language, is not permissible. The major or minor must be in one language only.

4. Mathematics may not be combined with Science (physics, geography, chemistry, biology) for a major or minor sequence.

**REQUIREMENTS FOR GRADUATION**

**Degrees and Certificates**

The State Board of Education for the State of Michigan, on recommendation of the president and faculty of Western Michigan College of Education, confers degrees and grants teachers certificates as follows:

A. The degree of Bachelor of Arts and the degree of Bachelor of Science.

B. 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 Note 1.)

C. 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 Note 2.)

D. 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 school district except a school district which maintains an approved high school. (See Note 3; also “Important Directions to Holders of Limited Certificates Based on the Michigan Teachers’ Certification Code”, on pages 81 and 82.)

**Academic and Residence Requirements for Degrees and Certificates**

A. For the Bachelor’s Degree the candidate shall—
   a. present credits satisfying a prescribed curriculum aggregating 120 semester hours;
   b. have satisfactorily completed in residence at this institution at least 30 semester hours;
   c. have been in residence in this institution the semester or summer session immediately preceding graduation;
   d. satisfy the requirements for the provisional certificate. (In certain cases this requirement may be waived.)

B. For the State Elementary Provisional Certificate the candidate shall—
   a. present credits satisfying a prescribed curriculum aggregating 120 semester hours;
b. have satisfactorily completed in residence at this institution at least 30 semester hours;
c. have been in residence at this institution the semester or summer session immediately preceding graduation;
d. satisfy the requirements for the Bachelor's Degree.

C. For the State Secondary Provisional Certificate the candidate shall—
   a. present credits satisfying a prescribed curriculum aggregating 120 semester hours;
   b. have satisfactorily completed in residence at this institution at least 30 semester hours;
   c. have been in residence at this institution the semester or summer session immediately preceding graduation;
   d. satisfy the requirements for the Bachelor's Degree.

D. For the State Limited Certificate the candidate shall—
   a. present credits satisfying a prescribed curriculum aggregating 60 semester hours;
   b. have satisfactorily completed in residence in this institution 15 semester hours;
   c. have been in residence at this institution the semester or summer session immediately preceding graduation;

Note 1. The holder of the State Elementary Provisional Certificate may be issued the State Elementary Permanent Certificate when 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 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 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 ten semester hours of acceptable college credit.

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:
   (a) Toward the Provisional Certificate, 25 semester hours;
   (b) Toward the State Limited Certificate, 25 semester 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 or both. Such credit, however, cannot be applied to modify the minimum or final residence requirements.
Note 5. No teacher's certificate will be granted to any person who is less than eighteen years of age.

Note 6. No teacher's certificate will be granted to any person who is not a citizen of the United States or who has not declared his intention of becoming a citizen.

Procedure for Permanent Certification

The holder of an Elementary Provisional or a Secondary Provisional Certificate, who has fully met the requirements (see notes page 80), may be issued a Permanent Certificate. Below is outlined the procedure to be followed:

A. The Candidate will
1. obtain from Western Michigan College of Education an application blank. This may be done after three years of teaching under the Provisional Certificate, but it must be done within one year following the expiration of the Provisional Certificate;
2. fill out the application as required and return it to the College;
3. return with the application blank his Provisional Certificate with his Teacher's Oath attached.

B. The College will
1. investigate the qualifications of the candidate to ascertain if he satisfies requirements for permanent certification;
2. recommend the candidate to the State Board of Education for permanent certification if his qualifications are found satisfactory;
3. deliver to the candidate the Permanent Certificate properly executed.

Important Directions to Holders of Limited Certificates Based on the Michigan Teacher's Certification Code

Caution: No person can be employed to teach in any school district unless he is legally qualified by holding a valid certificate. In order that the holder of any limited certificate may retain without interruption his status as a legally qualified teacher, he must make application for renewal to the State Board of Education between April 1 and September 1 of the year the certificate expires; if the candidate on the expiration of the certificate does not arrange for renewal as here stated, he will forfeit his status as a legally qualified teacher, and therefore will not be permitted to teach. He will, however, remain eligible to make application for renewal until June 30 of the year following expiration of his certificate after which date renewal privileges are canceled.

A. To the holder of the State Limited Certificate or of the State Limited Renewal Certificate.
1. The holder of a State Limited Certificate may be issued (five times) a State Limited Renewal Certificate provided the candidate shall have met the following conditions:
   (a) Subsequent to the date of issue of the last certificate held, the candidate must have acquired 10 semester hours of credit, of an average grade of "C" or better, earned in an institution or accepted by an institution approved by the State Board of Education. These credits must be applicable toward the requirements of the curriculum prescribed for the State Provisional Certificate eventually desired.
   (b) In order to assure that the credits earned toward renewal will apply on the State Provisional Certificate curriculum at the institution where the candidate intends to qualify eventually for that certificate, the candidate should arrange in advance in each
case to have his course selections approved by that institution. Also all credits wherever earned should be submitted to that institution for evaluation and by it transmitted to the State Board of Education with recommendations.

B. To the holder of the County Limited Certificate or of the County Limited Renewal Certificate.

1. The holder of a County Limited Certificate may be issued (two times) a County Limited Renewal Certificate, each valid for two years provided the candidate shall have met the following conditions:
(a) Subsequent to the date of issue of the last certificate held, the candidate must have acquired 10 semester hours of credit, of an average grade of "C" or better, earned in an institution or accepted by an institution approved by the State Board of Education. These credits must be applicable toward the requirements of the curriculum prescribed for the State Limited Certificate and for the State Provisional Certificate.
(b) In order to assure that the credits earned toward renewal will apply on the State Limited Certificate curriculum and on the State Provisional Certificate curriculum at the institution where the candidate intends to qualify for either certificate, the candidate should arrange in advance in each case to have his course selections approved by that institution. Also all credits wherever earned should be submitted to that institution for evaluation and by it transmitted to the State Board of Education with recommendations.

Note.—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, 1942 Revision.

Additional Regulations Governing Students at Western Michigan College of Education

1. All freshmen must carry Rhetoric 106 A, B.
2. At the end of the sophomore year all students except those enrolled in the two-year curricula must have had at least six class hours of physical education.
3. In general, freshmen should not elect two courses in a single department in the same semester. No student should elect more than 10 semester hours in a single department in the same semester.
4. All students who expect to receive a degree must present at least 8 semester hours of credit in rhetoric.
5. Not more than a total of 60 semester 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 8 semester 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 expect to obtain a degree and teaching certificate are required to present credits in the following courses: Human Growth and Development 251, Introduction to Directed Teaching 240 or 351, and Directed Teaching, Laboratory in Education, and General Educational Problems 370 A, B, C.
9. A student will not be permitted to carry directed teaching unless his point-hour ratio is at least 1.0.
10. All students must take the equivalent of six hour lectures in political science. This is a legal requirement.

HEALTH EDUCATION

An off-campus course in health education, Health Education 301, is offered throughout the year. It is a laboratory course in which the teacher, children, and others cooperate in developing healthful living in school, home, and community. The school officials of a county in cooperation with the institution organizing the course will arrange the time and the centers for meetings. Class meetings will cover 24 hours divided into eight three-hour periods and will be spent in developing a guiding point of view for the work, in broadening the teachers' and others' awareness of healthful living, and in discussion of reports on problems being developed. In addition to class work the instructor will visit each class member in his working situation, conferences will be held with groups, and a report of accomplishments will be required.

Any one may enroll for the course who is eligible to earn college level credits, who has a group with which to work, and who is recommended by the county school commissioner or superintendent. A background in hygiene, health education, or science is expected. Due to the type of work being done, it is desirable to set a minimum of 20 students to a group and a maximum of 30.

Credit may be earned as follows: 3 semester hours of undergraduate extension credit applying toward the bachelor's degree. Fees are $6.00 an hour, or $18.00, for undergraduate credit.

CURRICULA FOR UNDERGRADUATES

Programs of study in Western Michigan College of Education are planned in such a way as to prepare teachers for different departments in various phases of public school work, and also to give to students who are preparing to teach an 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 needs, his interests, and his 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 Provisional Certificate Curricula

   Elementary .................................................. 85
   General Degree ............................................ 90
   Pre-Professional ......................................... 94-103
   Secondary .................................................. 86
   Special Education ........................................ 87-89

2. Specific details for the two-year curriculum leading to a state limited Certificate in rural elementary education are outlined on page 91.

3. Details concerning the Accelerated Rural Elementary curriculum (Fifty semester hours) are given on page 92.

4. Courses for the two-year curriculum in Vocational Aviation Mechanics, and the Pilot Training Ground School are listed on pages 208 to 210.
5. Two two-year curricula are offered in Business Education—Cooperative Program in Retailing, page 103, and Secretarial Training, page 104.

6. Accelerated Programs of Study.
As part of its adjustment to wartime conditions, Western Michigan College of Education is offering accelerated programs to undergraduate students who may wish to elect them. Students who elect the accelerated program may at the end of any semester or summer session drop back into the normal program, and the college may require a student to return to the normal program should it become clear that he cannot meet the scholastic requirements of the accelerated plan. It may also be possible that some students could not be permitted to go on the accelerated plan at the outset because of the difficulties for them in carrying such a heavy load.

If a student decides to enter on the accelerated program, his counselor will help him in his choice of courses in order to see that his curriculum requirements are met, and to see that his major and minor requirements are properly satisfied. For students who have not already done so, of course, it will be necessary to decide upon the departments for majoring and minoring earlier than under the normal circumstances. In not all cases will this choice be the final one.

Full information regarding accelerated programs may be secured from the registrar.
**ELEMEN TARY CURRICULUM**

A.B. or B.S. Degree

State Elementary Provisional Certificate

(For the preparation of teachers of Kindergarten and Grades 1, 2, 3, 4, 5, 6, 7, 8)

**Group Requirements**

(See page 76 for Subject Groupings)

<table>
<thead>
<tr>
<th>Group</th>
<th>Requirements</th>
<th>Hours</th>
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<tbody>
<tr>
<td>I</td>
<td>Language and Literature</td>
<td>12</td>
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<td></td>
<td>Rhetoric (in addition)</td>
<td>8</td>
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<tr>
<td>II</td>
<td>Science</td>
<td>12</td>
</tr>
<tr>
<td>III</td>
<td>Social Science</td>
<td>12</td>
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<td></td>
<td>Including two semester hours of political science</td>
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<tr>
<td>IV</td>
<td>Education</td>
<td></td>
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<tr>
<td></td>
<td>Human Growth and Development 251</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Psychology of Reading 212</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to Directed Teaching 351</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Directed Teaching, Laboratory in Education, and General Educational Problems</td>
<td>15</td>
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<tr>
<td></td>
<td>370 A, B, C.</td>
<td></td>
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<tr>
<td>V</td>
<td>Fine Arts (Art, Music)</td>
<td>6</td>
</tr>
<tr>
<td>VI</td>
<td>Practical Arts</td>
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<td>VII</td>
<td>Physical Education and Health</td>
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<tr>
<td></td>
<td>Physical education: Women are required to take ten class hours, including</td>
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<td>Physical Education 100, one individual sport, and Physical Education 233,</td>
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<tr>
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<td>330, or 331. Men are required to take ten class hours. (A class hour is to</td>
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<td>be interpreted to mean one hour of class work each week for one semester.)</td>
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<tr>
<td></td>
<td>Electives</td>
<td>46</td>
</tr>
</tbody>
</table>

Note.—1. The student, in conference with his counselor, should choose courses on the basis of his special needs and interests, from among those especially adapted to teaching in the elementary field as a whole, or in any of the following special areas:

- **Early Elementary**
- **Rural Elementary**
- **Later Elementary**
- **Special Education**

2. The academic training shall include four minors, or a major (this 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.

3. It is possible for students to specialize by presenting minors not only in the general subject-matter fields, but in the special fields as well, of art, home economics, industrial arts, music, physical education, and special education.

4. Certain courses in some departments may not be counted toward satisfying the minimum group requirements. See course descriptions, pages 112 to 210.

5. A course in library methods is required.

6. For further information regarding details of specialization in a department or field, see introductory paragraphs for each department, pages 112 to 210.
SECONDARY CURRICULUM

A.B. or B.S. Degree

State Secondary Provisional Certificate

(For preparation of teachers of Grades 7, 8, 9, 10, 11, 12)

Group Requirements

(See page 76 for Subject Groupings)

Group I. Language and Literature ................................. 12 semester hours
Rhetoric (in addition) .............................................. 8 semester hours

Group II. Science ....................................................... 12 semester hours

Group III. Social Science .............................................. 12 semester hours
Including two semester hours of political science

Group IV. Education
Human Growth and Development 251 .............................. 3 semester hours
Introduction to Directed Teaching 351 ......................... 3 semester hours
Directed Teaching, Laboratory in Education, and General
Educational Problems 370 A, B, C .......................... 15 semester hours

Group VII. Physical Education and Health
Physical education: Women are required to take ten class
hours, including Physical Education 100, one individual
sport, and Physical Education 332. Men are required to
take ten class hours. (A class hour is to be interpreted to
mean one hour of class work each week for one semester.)

Electives .......................................................... 55 semester hours

Note.—1. The student, in conference with his counselor, should choose courses on the
basis of his special needs and interests.

2. The academic training shall include one major and two minors in subjects
or subject fields in which the applicant expects to teach.
It is possible for students to specialize by presenting minors not only in the
general subject-matter fields, but in the special fields as well, of art, business
education, home economics, industrial arts, music, and physical education.

3. Students majoring in art, music, or physical education for women may
choose either the State Elementary Provisional Certificate or the State Secondary
Provisional Certificate. Either certificate will authorize the candidate (student)
to teach his specified special subject in (both) the elementary and the secondary
grades when the candidate qualifies in both fields.

4. Certain courses in some departments may not be counted toward satisfying
the minimum group requirements. See course descriptions, pages 112 to 210.

5. A course in library methods is required.

6. For further information regarding details of specialization in a department
or field, see introductory paragraphs for each department, pages 112 to 210.
SPECIAL EDUCATION CURRICULUM

B.S. Degree

State Elementary Provisional Certificate

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

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

Group II. Science
General Biology 101A, B 8 semester hours
Hygiene 112 (or Health Education 285) 2 semester hours
General Psychology 200 3 semester hours
Abnormal Psychology 305 3 semester hours

Group III. Social Science
Principles of Sociology 241 3 semester hours
Modern Social Problems 242 3 semester hours
Political science 2 semester hours
Elective 4 semester hours

Group IV. Education
Human Growth and Development 251 3 semester hours
Mental Testing 307 2 semester hours
Mental Deficiency 332 2 semester hours
Introduction to Mental Hygiene 335 3 semester hours
Methods of Teaching Subnormal Children 337 2 semester hours
Introduction to Directed Teaching 351 3 semester hours
Directed Teaching, Laboratory in Education, and General Educational Problems 370A, B, C 15 semester hours

Group V. Fine Arts
Illustrative Handwork 107 3 semester hours

Group VI. Practical Arts
Special Education Shop 208 2 semester hours

Group VII. Physical Education and Health
Physical education: Women are required to take ten class hours, including Physical Education 100 and one individual sport. Men are required to take ten class hours. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)

Electives 37 semester hours

Note.—1. The academic training shall include a major (this may be a group major) and two minors, or four minors. The equivalent of two minors must be in subjects or subject fields taught in the elementary grades or in special classes for mentally retarded children.
2. A course in library methods is required.
OCCUPATIONAL THERAPY CURRICULUM
B.S. Degree
State Elementary Provisional Certificate

(For the preparation of teachers of occupational therapy)

Group I. Language and Literature ........................................... 12 semester hours
          Rhetoric (in addition) ............................................. 8 semester hours

Group II. Science
          Science or mathematics ............................................. 5 semester hours
          General Biology 101A, B .......................................... 8 semester hours
          General Psychology 200 ........................................... 3 semester hours
          Abnormal Psychology 305 ......................................... 3 semester hours

Group III. Social Science .................................................... 12 semester hours
          Including two semester hours of political science

Group IV. Education
          Human Growth and Development 251 ................................ 3 semester hours
          Introduction to Special Education 331 .......................... 2 semester hours
          Introduction to Directed Teaching 351 .......................... 3 semester hours
          Foundations of Modern Education 353 ............................ 3 semester hours
          Methods of Teaching Arts and Crafts (Kalamazoo State
          Hospital) ............................................................. 2 semester hours
          Directed Teaching 374 ............................................. 5 semester hours

Group V. Art ................................................................. 4 semester hours
          Occupational Therapy ............................................... 20 semester hours
          Undifferentiated Credit (Kalamazoo State Hospital) ......... 18 semester hours

Group VI. Practical Arts
          Special Education Shop 208 ..................................... 2-3 semester hours

Electives ................................................................. 6-7 semester hours

Note. — 1. In addition to the above 80 semester hours of college work, the student must spend 25 months at the Kalamazoo State Hospital and affiliated hospitals for which 40 semester hours of college credit are allowed on this curriculum only. Two semester hours of the 40 allowed are credited in education, and 20 semester hours are credited toward a major in occupational therapy.

2. Thirty semester hours of college credit must be earned before the student is admitted to the study of occupational therapy at the Kalamazoo State Hospital. Fifty additional hours of credit must be earned by the student during the 27 months of training in occupational therapy.

3. Four class hours of physical education are required. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)

4. A course in library methods is required.

5. This course is open to women students only.
SPEECH CORRECTION CURRICULUM

B.S. Degree

State Elementary Provisional Certificate

(For the preparation of teachers of speech correction)

Group I. Language and Literature .................................. 8 semester hours
Rhetoric (in addition) ............................................... 8 semester hours
Fundamentals of Speech 105A, B ................................... 5 semester hours
Introduction to Speech Correction 230 .......................... 3 semester hours
Principles of Speech Correction 231 .............................. 3 semester hours
Phonetics 318 .......................................................... 3 semester hours
Basic Voice and Speech Science 319 .............................. 3 semester hours

Group II. Science

General Biology 101A, B ............................................. 8 semester hours
Hygiene 112 .............................................................. 2 semester hours
Physical Science 100A, B .......................................... 6 semester hours
General Psychology 200 ............................................. 3 semester hours
Abnormal Psychology 305 .......................................... 3 semester hours
Mental Testing 307 .................................................... 2 semester hours

Group III. Social Science

Principles of Sociology 241 ......................................... 3 semester hours
Modern Social Problems 242 ...................................... 3 semester hours
Political Science ....................................................... 2 semester hours
Electives ................................................................. 4 semester hours

Group IV. Education

Psychology of Reading 212 ......................................... 3 semester hours
Human Growth and Development 251 ............................. 3 semester hours
Applied Speech Correction 300T ................................. 3 semester hours
Introduction to Special Education 331 .......................... 2 semester hours
Mental Hygiene 335 ................................................... 2 semester hours
Introduction to Directed Teaching 351 .......................... 3 semester hours
Directed Teaching, Laboratory in Education, and General
   Educational Problems 370A, B, C .............................. 15 semester hours

Group VII. Physical Education and Health

Physical Education: Women are required to take ten
   class hours, including Physical Education 100 and one
   individual sport. Men are required to take ten class hours.
   (A class hour is to be interpreted to mean one hour of
   class work each week for one semester.)

Electives ...................................................................... 28 semester hours

Suggested electives: Anatomy 211A, Genetic Psychology
   205, Interpretive Reading 210, Public Speaking 206, Social
   Psychology 243, Principles of Social Work 348, Social
   Work Practice 349, Psycho-Educational Problems 309.

Note.—1. The student, in conference with his counselor, should choose courses on the
   basis of his special needs and interests.
   2. The student must present a major in special education (speech correction).
   Two minors are also required and are usually in social science, science, languages,
   or psychology.
   3. Certain courses in some departments may not be counted toward satisfying
   the minimum group requirements. See course descriptions, pages 112 to 210.
   4. A course in library methods is required.
   5. For further information regarding details of specialization in a department
      or field, see introductory paragraphs for each department, pages 112 to 210.
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 75 to 83, 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.

Since Western Michigan College of Education is on the approved list of the Association of American Universities, students who complete their curricula with satisfactory records should experience no difficulty in enrolling in the better graduate and professional schools of the United States.

Group Requirements

Group I. Language and Literature .................. 12 semester hours
Ancient language and literature, English language and literature, modern language and literature, certain courses as indicated in the Department of Speech.

Rhetoric (in addition) .................. 8 semester hours

Group II. Science .......................... 12 semester hours
Anatomy, astronomy, biology, botany, chemistry, geography, geology, hygiene, mathematics, nature study, physics, physiology, psychology, zoology, certain courses as indicated in the Department of Agriculture.

Group III. Social Science .......................... 12 semester hours
Economics, history, philosophy, political science, sociology. Must include two semester hours of political science.

Group VII. Physical Education and Health.
Physical education: Women are required to take ten class hours, including Physical Education 100 and one individual sport. Men are required to take ten class hours.
(A class hour is to be interpreted to mean one hour of class work each week for one semester.)

Electives ........................................... 76 semester hours

Note.—1. The total minimum requirement is 120 semester hours.
2. One major and two minor sequences must be included.
3. A course in library methods is required.
RURAL ELEMENTARY CURRICULUM (Two Years)

Two-year—60 semester hours—curriculum which satisfactorily completed meets requirements for the State Limited Certificate which is valid for three years "and qualifies holder to teach in any Primary School District, or in any Graded School District not maintaining grades above the eighth."

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<thead>
<tr>
<th>Group</th>
<th>Courses</th>
<th>Hours</th>
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<tbody>
<tr>
<td>I</td>
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<td>Group V and VI</td>
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<td>Fine and Practical Arts5</td>
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<td>Personal and Social Problems 120 or equivalent</td>
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<td>Library Methods</td>
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<td></td>
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Note.—*This "limited-time" curriculum is necessary because of the acceptance of a double standard, despite the call for equal educational opportunity, in the professional preparation of teachers for rural and urban schools. It has been arranged to assist students in obtaining as broad and, at the same time, as specific and practical a professional preparation for working with children in farm and rural non-farm communities, as is possible in a period of two years.

At least one-half—30 semester hours—of this curriculum must be chosen from courses in Groups I, II, and III. Provision has been made for a flexibility of choice, under the guidance of the departmental counselor, among both group and general electives that will facilitate individualization on the basis of the personal and professional needs and interests of each student. In keeping with certification requirements "all courses must be appropriate to the education of elementary teachers." For most students the preferred choices would be made from among the courses in the different groups as listed below.

1. Fundamentals of Speech 105A; Chief American Poets 121; American Prose 122; Literature for Children 203.
2. Rural School Agriculture 105 or Nature Study 231A or Nature Study 231B; Introductory Geography 105A; Health Education 285 or Hygiene 112.
3. United States History 201B and "... a course of six one hour lectures or the equivalent shall be given in political science. ..."—Michigan School Laws, Section 898; Revision of 1940.
4. Arithmetic 101T; Psychology of Reading 212; Human Growth and Development 251. Those selected students permitted to do Directed Teaching 271 in the field while in residence there for six weeks receive 5 instead of 3 semester hours credit.
5. Art Structure 106; Rural School Music 109; Industrial Art 110; Auxiliary Choir 134; Home Nursing 220.
6. A class hour is to be interpreted to mean one hour of class work each week for one semester. Men: Physical Education 102A; 102B; 103A; 103B; Early

American Dancing 101; Social Dancing 122. Women: Early American Dancing 101; Social Dancing 122; Swimming 110; Tennis 113; Badminton 120.

7. These elections may well be chosen from among the preferred choices listed in the above notes (1 to 5) not used to meet minimum group requirements, supplemented if necessary from such courses as follow: Rhetoric 106B; Fundamentals of Speech 105B; Literary Interpretation 210; Lyric Poetry 211; The Familiar Essay 212; The English Bible 218A, 218B; Introductory Geography 105B; Physical Science 100A, 100B; United States History 201A; Introduction to Learning and Adjustment 100; Illustrative Handwork 107.

ACCELERATED RURAL ELEMENTARY CURRICULUM

(Fifty Semester Hours)

Because of the present shortage of rural teachers, an accelerated rural elementary curriculum is being offered. Special teaching permits are granted upon the completion of not less than fifty of the sixty semester hours in the two-year Rural Elementary Curriculum. Directed Teaching 271 and certain other subjects selected under the guidance of the departmental counselor must have been included.

The accelerated curriculum may be completed in three semesters, one calendar year, or, possibly, in two semesters and two summer sessions. The special certificate is valid for one year only and is not subject to renewal. Following its expiration, the requirements for the State Limited or some other certificate must be met.

DEGREES IN RURAL EDUCATION

Elementary or Secondary Degree Curricula with major attention given to preparation for work in rural communities: The Rural Elementary Curriculum (two-year) includes foundation courses for the degree, and students are encouraged to complete one of the four-year curricula—elementary or secondary—at the earliest possible time. Additional courses, as well as counsel, are provided by the Department of Rural Education for those wishing further professional specialization as teachers, principals, county commissioners, supervisors, or helping teachers in rural communities—open country, village, or town.

Students preparing to work in the elementary schools choose four minors and additional courses from among both group and general electives, with thought to individualization on the basis of personal and professional needs. They become familiar with the grades and subject areas of the entire elementary field.

Students preparing to work in the secondary schools choose majors, minors, and additional subject matter areas with thought to the variety of teaching and extra-curricular demands to be met in the smaller high schools.

Those preparing to serve rural people in the several professions and service occupations other than teaching will find considerable basic work in these curricula. For them, as well as for degree students preparing to work in either elementary or secondary school positions, advanced courses in rural education and rural life are offered.
PRE-PROFESSIONAL AND COMBINED CURRICULA

It is no longer possible for a student to enter professional colleges and universities directly from high school. Pre-professional college training is now required. Most of the best professional schools of the country have prescribed more or less definitely the nature of the college work prerequisite to professional training. The amount of college training required by leading universities in preparation for the various professions, such as law, medicine, and dentistry, 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 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 these 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 Michigan College of Education offers two and, in some cases, three or four years of work preparatory to professional study.

Pre-professional curricula have been developed in Business Administration, Dentistry, Engineering, Forestry, Journalism, Law, Medicine, and Social Work. In addition to the standard pre-professional curricula combined curricula approved by the State Board of Education have been specially arranged with the various professional schools of certain colleges and universities. In these curricula, the student, after successfully completing the three-year curriculum as outlined, may apply for admission to the professional school or college of which he has met the requirements. If admitted, the student will, after a year of successful work in the professional school, be granted the A.B. or B.S. degree by Western Michigan College of Education, providing all General Degree requirements for the bachelor’s degree have been satisfied. (See page 90.) “It will be seen that this shortens by one year the time necessary for obtaining both degrees.”

The professional schools and colleges with which Western Michigan College of Education has agreements concerning combined curricula reserve the right to refuse admission for certain reasons. Because of this, Western Michigan College of Education cannot guarantee that a student successfully completing combined curricula will be admitted to the professional school of his choice. If the student contemplates entering some college or university other than those with which combined curricula have been arranged, 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 including the junior year is required for the bachelor's degree in the combined curricula. Combined curricula have been arranged with the Schools of Dentistry, Engineering, Business Administration, Forestry, and Law of the University of Michigan. There are also combined curricula with the College of Medicine, Wayne University; the Detroit College of Law; the Schools of Commerce and Journalism of Northwestern University; the Divisions of Agriculture, Business Administration, and Engineering of Michigan State College and Occupational Therapy of the Kalamazoo State Hospital.

A course in library methods and five to ten class hours of physical education are required.
AGRICULTURE

The successful completion of the courses outlined below will permit the student to enter the junior year at Michigan State College for the bachelor's degree in Agricultural Science and the certificate for the teaching of vocational agriculture in the secondary schools of Michigan.

First Year

Rhetoric 106A, B .................................................. 6 semester hours
General Biology 100A, B ..................................... 8 semester hours
Animal Husbandry, 106, 107, 108 ...................... 8 semester hours
Electives (to be selected from United States History 201A, B; Trigonometry and College Algebra 103A; or Trigonometry 100C.) .......... 9-10 semester hours

Second Year

General Chemistry 100A, B, or 101A, B .......... 8 semester hours
Farm Crops 202 .................................................. 3 semester hours
Soils 201 ......................................................... 3 semester hours
Fundamentals of Speech 105A ......................... 3 semester hours
General Psychology 200 .................................... 3 semester hours
Horticulture 203 ................................................ 2 semester hours
Electives (to be selected from Principles of Economics 220A, B; Bacteriology 212A; Surveying 210; or United States History 210A, B.) ........... 8-10 semester hours

BUSINESS ADMINISTRATION

The University of Michigan and Michigan State College now give the degree of Bachelor of Business Administration. The work of the first two years consists of liberal arts subjects which may be taken at Western Michigan College of Education and transferred to these institutions. The course outlined below meets these requirements. The same agreement exists with the School of Commerce, Northwestern University.

First Year

Rhetoric 106A, B .................................................. 6 semester hours
Trigonometry and College Algebra 103A, College Algebra and Analytic Geometry 103B ........................................ 10 semester hours
or
College Algebra and Analytic Geometry 104A, B .......... 8 semester hours
General Biology 100A, B ..................................... 8 semester hours
or
General Chemistry 100A, B, or 101A, B .......... 8 semester hours
History 105A, B, or 108A, B, or 109A, B ............ 6-8 semester hours
Fundamentals of Speech 105A, B ......................... 5 semester hours
French or German or Spanish 100A, B, or 102A, B .......... 8 semester hours

Second Year

English (selected in the field of literature) ....... 2-8 semester hours
Principles of Economics 220A, B ...................... 6 semester hours
Mathematics 200, or 205A, B, or 211, or 227, or 228 ....... 2-9 semester hours
Accounting (Business Education) 210A, B ............. 6 semester hours
General Psychology 200 ..................................... 3 semester hours
Political Science 230A, B ................................... 6 semester hours
Principles of Sociology 241 ................................ 3 semester hours
Modern Social Problems 242 ............................. 3 semester hours
French or German or Spanish 100A, B, or 102A, B .......... 8 semester hours
DENTISTRY
(Combined Curriculum in Letters and Dentistry)

First Year
Rhetoric 106A, B ................................................................. 6 semester hours
General Biology 100A, B .................................................. 8 semester hours
Electives (see note below) ........................................ 16 semester hours

Second Year
General Chemistry 100A, B, or 101A, B ................................. 8 semester hours
Mechanics, Heat, and Sound 203A, Electricity and Light
203B .......................................................... 10 semester hours
Electives .......................................................... 12 semester hours

Third Year
Advanced Rhetoric 323 .................................................... 2 semester hours
Organic Chemistry 306A, B ........................................... 8 semester hours
Electives ..................................................... 20 semester hours
Note.—In the selection of electives the student should plan to meet the General Degree
requirements in Groups I, II, and III. See page 90.

ENGINEERING
(Combined Curriculum in Letters and Engineering)
University of Michigan

First Year
Rhetoric 106A, B ................................................................. 6 semester hours
Trigonometry and College Algebra 103A, College Algebra
and Analytic Geometry 103B ........................................ 10 semester hours
or
College Algebra and Analytic Geometry 104A, B ................... 8 semester hours
General Chemistry 100A, B, or 101A, B ................................. 8 semester hours
Mechanical and Machine Drawing 221 ............................... 3 semester hours
Descriptive Geometry 222 ........................................... 3 semester hours
Electives .................................................... 2-4 semester hours

Second Year
Chemical and Metallurgical
Calculus 205A, B ................................................................. 8 semester hours
Mechanics, Heat, and Sound 203A, Electricity and Light
203B .......................................................... 10 semester hours
Engineering Materials 210 .......................................... 3 semester hours
Qualitative Analysis 201, Quantitative Analysis 202 ........... 8 semester hours
Metal Processing 211 ............................................. 2 semester hours

Third Year
Chemical and Metallurgical
Principles of Economics 220A, B ........................................ 6 semester hours
Organic Chemistry, 306A, B ........................................... 8 semester hours
or
Language (German preferred) ........................................... 8 semester hours
Statics 320 ................................................................. 3 semester hours
Advanced Rhetoric 323 ............................................. 2 semester hours
Fundamentals of Speech 105A ........................................ 3 semester hours
Social science electives ............................................ 6 semester hours
Electives .................................................... 2-4 semester hours
Second Year

Aeronautical, Civil, Electrical, Marine, and Mechanical

Calculus 205A, B ........................................ 8 semester hours
Mechanics, Heat, and Sound 208A, Electricity and Light 208B ........................................ 10 semester hours
Engineering Materials 210 ........................................ 3 semester hours
Metal Processing 211 ........................................ 2 semester hours
Fundamentals of Speech 105A ........................................ 3 semester hours
Group I electives ........................................ 6-8 semester hours

Third Year

Aeronautical, Civil, Electrical, Marine, and Mechanical

Principles of Economics 220A, B ........................................ 6 semester hours
Foreign language ........................................ 8 semester hours
or
Group III elective ........................................ 6 semester hours
Differential Equations 321 or elective ........................................ 3 semester hours
Statics 320 or elective ........................................ 3 semester hours
Advanced Rhetoric 323 ........................................ 2 semester hours
Theoretical Mechanics 425 or elective ........................................ 3 semester hours
Electives to total ........................................ 32 semester hours

Note.—1. Language requirement: one year of a foreign language is required unless two years of a single foreign language were presented for entrance.
2. All students must have 12 semester hours in Group III (Social Science), including two hours of political science.

FORESTRY
(Combined Curriculum in Letters and Forestry)
University of Michigan

First Year

Rhetoric 106A, B ........................................ 6 semester hours
General Biology 100A, B ........................................ 8 semester hours
Trigonometry and College Algebra 103A, B, or College Algebra and Analytic Geometry 104A, B ........................................ 8-10 semester hours
General Mechanical Drawing 120 ........................................ 2 semester hours
Electives (to be selected from literature or language) ........................................ 4-6 semester hours

Second Year

General Chemistry 100A, B, or
General Chemistry 101A, B ........................................ 8 semester hours
Botany 221A, B ........................................ 8 semester hours
Principles of Economics 220A, B ........................................ 6 semester hours
Electives (to be selected from physics; Botany 222; Speech 105A, B; Sociology 241, 242; literature or language) ........................................ 8 semester hours

Third Year

Advanced Rhetoric 323 ........................................ 2 semester hours
General Geology 230 ........................................ 3 semester hours
Surveying 210 ........................................ 3 semester hours
Electives (to be selected from American Government 230, American State and Local Government 231; Geology 230 A, B; Organic Chemistry 306A, B; Zoology 242; Botany 335; Geography 312 or 325) ........................................ 22 semester hours
JOURNALISM

(Approved by the University of Michigan, Michigan State College, and Northwestern University as part of requirement toward degree in Journalism)

First Year

Rhetoric 106A, B ................................................. 6 semester hours
General Biology 100A, B ............................................. 8 semester hours
or
General Chemistry 100A, B, or 101A, B .................. 8 semester hours
United States History 201A, B .................................... 6 semester hours
French, German, or Spanish 100A, B ...................... 8 semester hours
Electives ............................................................. 2-3 semester hours

Second Year

Chief American Poets 121 or American Prose 122 ........... 3 semester hours
General Psychology 200 .............................................. 3 semester hours
Principles of Sociology 241 ........................................ 3 semester hours
Modern Social Problems 242 ...................................... 3 semester hours
American National Government 230 .......................... 3 semester hours
American State and Local Government 231 .............. 3 semester hours
Principles of Economics 220A, B ............................... 6 semester hours
Economic History of the United States 312 ............... 3 semester hours
Electives ..................................................................... 3-4 semester hours

Note.—1. 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 a course in typewriting.

2. Northwestern University requires a reading knowledge of a modern language or two years of college work in one language.
LAW
(Combined Curriculum in Letters and Law)
University of Michigan Law School
Detroit College of Law

First Year

Rhetoric 106A, B ........................................ 6 semester hours
Trigonometry and College Algebra 103A, College Algebra
and Analytic Geometry 103B ............................. 10 semester hours
or
General Chemistry 100A, B, or 101A, B ................. 8 semester hours
College Algebra and Analytic Geometry 104A, B .......... 8 semester hours
or
Introduction to Physical Science 105A, B ............... 6 semester hours
or
General Biology 100A, B .................................. 8 semester hours
English History 109A, B .................................. 6 semester hours
Latin, French, German, or Spanish 100A, B (Latin pre-
ferred) ....................................................... 8 semester hours

Second Year

English Literature 107A, B .................................. 6 semester hours
or
Shakespeare 214A, B ..................................... 6 semester hours
United States History 201A, B ............................. 6 semester hours
Principles of Economics 220A, B .......................... 6 semester hours
Accounting 210A, B ...................................... 6 semester hours
General Psychology 200 (University of Michigan) ........ 3 semester hours

Third Year

Advanced Rhetoric 323 .................................... 2 semester hours
American National Government 230 ....................... 3 semester hours
American State and Local Government 231 ................ 3 semester hours
Principles of Sociology 241 ............................... 3 semester hours
Modern Social Problems 242 .............................. 3 semester hours
Public Finance 320 ....................................... 3 semester hours
Electives (to be selected from Speech 105A, B; Money and
Credit 221A, B; language or literature, or laboratory
science) ...................................................... 13 semester hours

Note.—1. An average scholarship of two honor points is required by the University
of Michigan Law School.
2. The above requirements are those of the University of Michigan Law School.
Those of the Detroit College of Law are the same except that for Psychology 200
in the third year, Accounting 210A, B (6 semester hours) is substituted.
LIBRARY SCIENCE

(Combined Curriculum in Library Training)

The better schools for training in library science require the bachelor's degree for entrance. They also stipulate that certain courses must be taken. To avoid loss in the transference of credits to such schools, Western Michigan College of Education has provided this combined curriculum.

**First Year**

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<td>Rhetoric 106A, B</td>
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<td>History of Modern Europe 108A, B</td>
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<td>General Biology 100A, B</td>
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<td>or General Chemistry 100A, B, or 101A, B</td>
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<td>United States History 201A, B</td>
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<td>or American National Government 230, American State and Local Government 231</td>
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**Third Year**

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<td>6</td>
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<tr>
<td>or Principles of Sociology 241, Modern Social Problems 242</td>
<td>6</td>
</tr>
<tr>
<td>English or American literature</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Rhetoric 323</td>
<td>2</td>
</tr>
<tr>
<td>Electives from mathematics or science</td>
<td>8</td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language or literature</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Sociology 241, Modern Social Problems 242</td>
<td>6</td>
</tr>
<tr>
<td>or Principles of Economics 220A, B</td>
<td>6</td>
</tr>
<tr>
<td>Electives to complete a major and two minors</td>
<td>18</td>
</tr>
</tbody>
</table>

Note.—The high school course should include two years of Latin, two years of French or German, as much social science as possible, and a mastery of typewriting.
MEDICINE

University of Michigan Medical School

The Medical School requires 90 semester hours of pre-medical work from an accredited college. An average scholarship of one and three-quarters honor points is required. The college pre-medical requirements must include the following:

- English: 6 semester hours
- Chemistry: 14 semester hours
- Physics: 8 semester hours
- Biology: 8 semester hours
- French, German, or Spanish: 12-16 semester hours
- Electives to total: 90 semester hours

Wayne University College of Medicine

(Combined Curriculum in Letters and Medicine.)

The Medical School requires 90 semester hours of pre-medical work from an accredited college.*

**First Year**

- Rhetoric 106A, B: 6 semester hours
- General Biology 100A, B: 8 semester hours
- General Chemistry 100A, B, or 101A, B: 8 semester hours
- French or German: 8 semester hours

**Second Year**

- English Literature 107A: 3 semester hours
- Mechanics, Sound, and Heat 203A, Electricity and Light 203B: 10 semester hours
- Qualitative Analysis 201, Quantitative Analysis 202: 8 semester hours
- French or German: 8 semester hours

**Third Year**

- English Literature 107B: 3 semester hours
- Organic Chemistry 306A, B: 8 semester hours
- Principles of Economics 220A, B: 6 semester hours
- Principles of Sociology 241: 3 semester hours
- General Psychology 200: 3 semester hours
- Anatomy 211A: 4 semester hours
- Advanced Rhetoric 328: 2 semester hours

Note.—1. Application for admission to a College of Medicine should be made by the middle of the school year preceding the year in which the student intends to enter the College of Medicine.

2. Credit in trigonometry must be presented before the student may begin the study of physics.

3. *For the duration of the war, Wayne University will accept 60 semester hours for entrance. For details, see Wayne University catalog for 1943, pages 36-37.
MEDICAL TECHNOLOGY

This curriculum meets the pre-clinic requirements of the Michigan Board of Health and the American Society of Clinical Pathologists. Upon the successful completion of the clinical work the student may be granted the degree of Bachelor of Science, if all requirements have been satisfied.

First Year

Rhetoric 106A, B ................................................. 6 semester hours
Mathematics 100A, B, or 103A, B, or 104A, B .............. 6-10 semester hours
General Chemistry 100A, B, or 101A, B ...................... 8 semester hours
Biology 100A,B .................................................. 8 semester hours
Group I electives ................................................. 4-6 semester hours

Second Year

Qualitative Analysis 201, Quantitative Analysis 202 .......... 8 semester hours
Bacteriology 212, Zoology 242B .................................. 8 semester hours
Group I electives ................................................ 6-8 semester hours
Group III electives .............................................. 6 semester hours

Third Year

Mechanics Sound and Heat 203A, Electricity and Light 203B 10 semester hours
Organic Chemistry 306A ............................................. 4 semester hours
Bio-Chemistry 350, 351 .............................................. 3 semester hours
Physiology 211 .................................................... 4 semester hours
Group I electives ................................................ 3-4 semester hours
Group III electives .............................................. 6 semester hours
NURSING
(Combined curriculum in Letters and Nursing)
Bronson Hospital, Kalamazoo

A five-year curriculum leading to the B. S. degree and the R. N. diploma. The first and fifth years are spent entirely in work at Western Michigan College of Education. The work of the third and fourth years is in the hospital. During the second year two-thirds of the work is at the college.

First Year

Rhetoric 106A, B ........................................... 6 semester hours
General Biology 100A, B ..................................... 8 semester hours
Modern European History 108A, B ....................... 6 semester hours
Electives* ..................................................... 10 semester hours

Second Year

Anatomy and Physiology (for Nurses) 213 .................. 5 semester hours
Chemistry (for Nurses) 106 .................................. 4 semester hours
Hygiene and Bacteriology (for Nurses) 214 ............... 5 semester hours
Sociology (for Nurses) 244 .................................. 2 semester hours
Nutrition 219 ....................................................
General Psychology 200 .................................... 3 semester hours

Third and Fourth Years at Bronson Hospital

Fifth Year

English or foreign language ................................ 12 semester hours
Advanced Rhetoric 323 ...................................... 2 semester hours
Survey of American Government 334 ....................... 2 semester hours
Modern Social Problems 242 ................................ 3 semester hours
Electives ....................................................... 11 semester hours

Note.—*1. General Chemistry 100 A, B is required unless high-school chemistry was presented for entrance.
2. In addition to the 80 semester hours of work outlined above, the student is credited with 40 semester hours for the work done in the hospital. This credit may be used only in the Nursing curriculum. Nursing may constitute a major in this curriculum.
3. Four class hours of physical education are required. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)
4. A course in library methods is required.
OCCUPATIONAL THERAPY

(Combined Curriculum in Letters and Occupational Therapy)

Kalamazoo State Hospital

First Year

Rhetoric 106A, B ........................................ 6 semester hours
Biology 101A, B ........................................ 8 semester hours
Art .......................................................... 4 semester hours
Electives under guidance .................................. 12 semester hours

Second Year (First Semester)

Introduction to Special Education 331 ....................... 2 semester hours
Anatomy and Physiology (for Occupational Therapists) 215 4 semester hours
Special Education Shop 208 ................................ 3 semester hours
Electives under guidance .................................... 4-6 semester hours
(Three afternoons per week are spent at the Kalamazoo State Hospital.)

Second Year (Second Semester) and Third Year

Student spends full time at Kalamazoo State Hospital for eleven months during which time she completes the courses in arts and crafts required under occupational therapy in the teacher preparation curriculum (page 88). After this, she goes on affiliation to other hospitals for nine months, all of which will occupy her time until the first month of her fourth year when she returns to Kalamazoo.

Fourth Year

Advanced Rhetoric 323 .................................... 2 semester hours
Abnormal Psychology 305 .................................. 3 semester hours
or
Mental Hygiene 335 ........................................ 3 semester hours
Electives sufficient to satisfy requirements for graduation.
(Three afternoons per week during the first semester are spent at the Kalamazoo State Hospital.)

Note.—1. Forty semester hours of college credit applicable to this curriculum only are allowed for the work done at the Kalamazoo State Hospital and affiliated hospitals. Twenty semester hours of the 40 allowed may be credited toward a major in occupational therapy. The remaining 20 hours is undifferentiated credit which may not be counted on minors or group requirements.

2. A student may transfer credit earned at other colleges acceptable to the registrar of Western Michigan College of Education, but in no case may a student receive a degree who has earned less than 30 semester hours of credit from this institution beyond the 40 semester hours allowed for the work at the Kalamazoo State Hospital. Credits earned must satisfy group requirements and also that of a major and two minors.

3. The student may accelerate her program by attending the summer session of her first year and by taking correspondence or extension courses while she is away from the campus. It is possible in this way to graduate with the degree in three and one-half years.

4. A student who elects not to take the degree may spend one month at the Kalamazoo State Hospital immediately following her last affiliation. She may then be graduated by the Kalamazoo State Hospital with a diploma allowing her to work one year in the field after which she becomes eligible for certification as a Registered Occupational Therapist. To be graduated with the Occupational Therapy diploma, a student must fulfill all the requirements specified in the first, second, and third years above plus the one month of residence at the Kalamazoo State Hospital mentioned in this note.

5. Four class hours of physical education are required.

6. A course in library methods is required.

7. This curriculum is at present open only to women students.
SOCIAL WORK*

First Year

Rhetoric 106A, B ........................................ 6 semester hours
General Biology 100A, B ................................ 8 semester hours
Modern Europe 108A, B or Foundations of Western Civilization 100A, B (unless the student plans to take United States history in the sophomore year) ............. 6 semester hours

Second Year

Principles of Sociology 241 .................................. 3 semester hours
Modern Social Problems 242 .................................. 3 semester hours
General Psychology 200 ..................................... 3 semester hours
Principles of Economics 220A, B .............................. 6 semester hours
United States History 201A, B (unless the student has taken the history suggested for the freshman year) .... 6 semester hours

Third Year

Advanced Rhetoric 323 ....................................... 2 semester hours
Any 2 or 3 of the following advanced sociology courses:
   Social Psychology 243 .................................. 2 semester hours
   Problems of Family Life 247 ......................... 3 semester hours
   Criminology 342 ....................................... 3 semester hours
   Mental Deficiency 332 ................................ 2 semester hours
   Mental Hygiene 335 ................................... 3 semester hours
   American National Government 230 .................... 3 semester hours
   American State and Local Government 231 .......... 3 semester hours

Fourth Year

Any 1 or 2 of the following (to complete 4 required courses in advanced sociology):

   Rural Sociology 245 ................................... 3 semester hours
   Urban Community 340 .................................. 2 semester hours
   Population 343 ....................................... 3 semester hours
   Social Control 441 (158) .............................. 3 semester hours
   Cooperative Social Organization 445 (162) ........... 2 semester hours
   Principles of Social Work 348 .......................... 4 semester hours
   Social Work Practice 349 ................................ 3 semester hours
   Clinical Psychology 300 ................................ 2 semester 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 permits from 49 to 53 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 certificate in teaching is also desired, courses must be selected so that the requirements in one of the certificate curricula are fulfilled.
COOPERATIVE PROGRAM IN RETAILING (Two Years)

A two-year curriculum designed to prepare students for work in the field of retailing. This work is organized on the cooperative plan which combines classroom instruction at the college in the morning, and, with the cooperation of the merchants of Kalamazoo, employment for actual experience in the local stores during the afternoon and Saturday.

Entrance requirements: high-school graduation, recommendation of the high-school principal, aptitude for store work, and approval of the Department of Business Education.

Successful completion of the course leads to a diploma in retailing. If, at a later date, such students desire to secure a degree, credit obtained for work taken in the two-year program may be applied toward degree requirements, (see degree requirements, pages 75 to 83) provided regular college entrance requirements are met.

Students enrolled in this course will have the opportunity, in addition to taking the specialized courses in retailing, to elect such other college courses as will fit their needs and their schedules, abilities, and work programs will permit. Students should consult their faculty advisor before making a selection of electives.

First Year

- Retail Records 111 ............................................. 3 semester hours
- Fundamentals of Retailing 140A, B .......................... 6 semester hours
- Retail Merchandising 141 .................................... 3 semester hours
- Retail Salesmanship 150 .................................... 3 semester hours
- Merchandise and Job Analysis 151A, B ..................... 6 semester hours
- Electives ....................................................... 9 semester hours

Second Year

- Retail Accounting 211 ....................................... 3 semester hours
- Retail Credit and Collections 241 .......................... 3 semester hours
- Store Organization 251A, B ................................ 4 semester hours
- Retail Publicity 240 .......................................... 3 semester hours
- Coordinated Business Experience 200A, B ................. 2 semester hours
- Electives ....................................................... 15 semester hours

Note.—For course descriptions see pages 127 to 129.
SECRETARIAL TRAINING (Two Years)

This curriculum is designed for students who do not plan to remain in college for four years and who desire training for stenographic and secretarial office positions. The curriculum is organized so as to provide as broad a general education as time permits, as well as sufficient knowledge and skill to meet successfully business requirements.

Entrance requirements: high-school graduation, recommendation of high-school principal, and approval of Department of Business Education.

Graduates of this two-year course will receive a two-year secretarial diploma and the cooperation of the department and college in securing placement in an office position. If, at a later date, such students desire to secure a degree, credit obtained for work taken in the two-year program may be applied toward degree requirements (see degree requirements, page 75 to 83) provided regular college entrance requirements are met.

Enrollment in this curriculum will be limited. Students desiring to take this course should make early application to the Department of Business Education.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Introduction to Economics 120A, B</td>
<td>4</td>
</tr>
<tr>
<td>Business Mathematics 120</td>
<td>2</td>
</tr>
<tr>
<td>&quot;Secretarial Science 130A, B</td>
<td>10</td>
</tr>
<tr>
<td>Electives</td>
<td>8</td>
</tr>
<tr>
<td>Physical education</td>
<td></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secretarial Accounting 211A, B</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Economics 220A, B</td>
<td>6</td>
</tr>
<tr>
<td>Secretarial Practice 230A, B</td>
<td>4</td>
</tr>
<tr>
<td>Filing Principles and Techniques 236</td>
<td>2 semester hours</td>
</tr>
<tr>
<td>Electives</td>
<td>10</td>
</tr>
<tr>
<td>Physical education</td>
<td></td>
</tr>
</tbody>
</table>

Note.—1. *Students who have not had shorthand or typewriting in high school should register for Shorthand and Typewriting 100A.

2. Students should consult their faculty adviser before making their selections for electives.

3. Physical Education. Women are required to take four class hours including Physical Education 100, and one individual sport. Men are required to take four class hours. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)

4. A course in library methods is required.
VOCATIONAL AVIATION MECHANICS (Two Years)

This two-year curriculum is offered to students who wish to enter the field of aviation for their life work. Special preparation is given for service and maintenance positions with the airlines, repair depots, and commercial and private owners of aircraft.

Twenty-five to thirty hours per week in shop work and related subjects are offered in a modern, well-equipped, government-approved repair station located in the Mechanical Trades Building. All repair work on airplane engines and aircraft structures is supervised by licensed mechanic instructors. A major part of the instruction is given on aircraft to be re-licensed after repairs and the overhaul are completed. Facilities leased at the Municipal Airport provide inspection and service of licensed aircraft used in daily flight operations.

An accurate log book is kept by each student listing repairs and service work completed. This log is retained by the student as evidence of practical experience. A student who is recommended may write the government-sponsored examinations for the airplane mechanic's or the airplane-engine mechanic's license. A diploma is granted upon successful completion of the course.

Specialist ratings can be acquired in machine shop, sheet metal, welding, hydraulics, propellers, instruments, and aircraft radio. These ratings are of interest to those preparing to enter the air service as ground mechanics.

Ground school courses are offered in preparation for the private and commercial pilot certificate of aeronautical knowledge. These courses are adapted to teachers preparing to offer pre-flight aeronautic courses sponsored in many high schools. Actual flight training can be included for those actively interested; either glider, sail-plane, or ground-flight instruction is to be made available at nominal cost.

Pilot training sponsored by the Civil Aeronautics Administration for enlisted men in the Naval Cadet Reserve will be continued for the duration.

Note.—For course descriptions see pages 208 to 210.