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Bulletin: Western Michigan College of Education Details of Under-Graduate Curricula 1947-1948

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Details of Under-Graduate Curricula
DETAILS
OF
UNDER-GRADUATE
CURRICULA

KALAMAZOO, MICHIGAN
1947-1948
UNDERGRADUATE CURRICULA
DETAILS RELATING TO CURRICULA
PURPOSE AND CONTROL OF MICHIGAN COLLEGES OF EDUCATION

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 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 Departments of Librarianship and 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, certain courses as indicated in the Department of Librarianship

Group IV. Education
- Education (includes methods courses and directed teaching), certain courses as indicated in the Department of Librarianship

Group V. Fine Arts
- Art, music

Group VI. Practical Arts
- Agriculture, business education, home economics, industrial arts education, military science, certain courses as indicated in the Department of Librarianship

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.
UNDERGRADUATE CURRICULAE

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.

2. The student who otherwise qualifies for the degree of Bachelor of Arts and who has earned at least 64 semester hours in Group II may at his option receive either the degree of Bachelor of Science or the degree of Bachelor of Arts.

BACHELOR OF MUSIC (AND TEACHING CERTIFICATE)

The student who completes a curriculum as outlined by the Department of Music with a major in Public School Music is eligible for certification. A total of 128 semester hours is required for graduation. The student must include 20 semester hours in a single field of Applied Music, which will be offered as his first minor. The second minor must be in a non-music area. (See curricula outlines on pages 108-110 of the 1947-1948 Year Book).

BACHELOR OF MUSIC (WITHOUT TEACHING CERTIFICATE)

Students who indicate by their placement examinations certain levels of proficiency will be accepted as majors in the various fields of Applied Music or Composition. A total of 128 semester hours is required for graduation and must include specific requirements as indicated in the curricula outlines as well as major and minor requirements as approved by the Department of Music. (See pages 161-174 of the 1947-1948 Year Book).

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 90 to 91 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 Music or 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

- Group I at least 12 semester hours*
- Group II at least 12 semester hours
- Group III at least 12 semester hours
- Group IV at least 20 semester hours
- Rhetoric at least 6 semester hours

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.

*Besides Rhetoric 106 A, B.
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 pages 115-121 of the 1947-1948 Year Book).

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 91 of the 1947-1948 Year Book).

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. Under certain conditions students may elect beyond this minimum up to a maximum of 40 hours offered by any department. In the Division of Science and Mathematics and in the Division of Social Sciences group majors and group minors are permitted. (See number 5 below.) 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.

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 “Description of Courses,” pages 157-332, (1947-1948 catalog), see the introductory statement of 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 Education 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. In certain cases, group majors totaling a minimum of 30 semester hours and group minors totaling a minimum of 20 semester hours are allowed. They usually consist of courses selected from the related departments of a division.
(See the Division of Social Sciences and the Division of Science and Mathematics). Students should consult the chairmen of the divisions relative to these group majors and group minors.

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 art education, librarianship, music, occupational therapy, 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.

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.)

Note—See Teachers' Certification Code, Bulletin No. 601, 1942, page 18, paragraph 5.
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 9 and 10.)

**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 at 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 at 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.
   (c) The holder of an Elementary Provisional Certificate issued after July 1, 1945, must have earned in addition 10 semester hours of acceptable college credit.

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 pages 94-96 of the 1947-1948 catalog), 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 Teachers' 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 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 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 106A, 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 6 semester hours of credit in rhetoric. English minors and majors must present two hours of Advanced Rhetoric or its approved equivalent.

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.
THE CURRICULA

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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.

N.B. A total of 120 semester hours is required for graduation with the Bachelor’s Degree in all four-year curricula. The Bachelor of Music degree requires 128 hours.
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 90-91 of the 1947-1948 Catalog, 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) .................................................. 6 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 18 class hours. Men must take 3 class hours per week for 6 consecutive semesters.
(A class hour is to be interpreted to mean one hour of class work each week for one semester.)

Elective ................................................................. 78 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.
CURRICULA FOR TEACHERS

On the following pages are outlines of the various curricula for teachers offered by Western Michigan College of Education. They are designed to give prospective teachers a broad general education with a reasonable degree of specialization in the subject-matter fields through well-planned majors and minors. In addition, they furnish an adequate background in professional study for the graduate to enter teaching with a knowledge of the purposes and objectives of public education, the nature of child growth and development, the modern methods of teaching, and the means of appraising instruction.

Curricula for Elementary and Secondary Teachers

Students pursuing the elementary curriculum, page 89, (1945-1946 Catalog), are granted the state elementary provisional certificate which permits them to teach in the kindergarten and grades one to eight, inclusive. They also receive the A.B. or B.S. degree. The secondary curriculum leads to the state secondary provisional certificate which permits holders to teach in grades seven to twelve, inclusive. They, too, receive either the A.B. or B.S. degree. Students who major in art, music, or physical education for women (subjects taught in both elementary and secondary grades) choose either the state elementary or state secondary provisional certificate. Either certificate will authorize the holder to teach the specified special subject in both the elementary and the secondary grades when he qualifies in both fields. Students pursuing the vocational business curriculum are granted a state secondary provisional certificate.

Curricula for Special Education Teachers

Students desiring to enter the field of special education should follow the curricula found on pages 17-20. The second of these emphasizes the preparation of teachers of the mentally retarded and backward children. Those interested in occupational therapy follow the program outlined on page 19. In like manner, those interested in speech correction pursue the work outlined on page 20. Students who wish to prepare to teach the deaf and hard of hearing will follow the curriculum on page 17. All four of these curricula lead to the B.S. degree and a state elementary provisional certificate is granted to those successfully completing the stated requirements.

Curricula for Rural Teachers

Both elementary and secondary degree curricula—with corresponding state provisional certificates—with major attention given to preparation for work in open country and in village or town communities having 2500 or less in population, are offered.

Students interested in a state limited certificate, which entitles them to teach in any primary school district or graded school districts not maintaining grades above the eighth, may follow the program outlined on page 23. This is a two-year program and the student earns 60 semester hours credit. The state limited certificate is valid for three years. The curriculum has been arranged to assist students in attaining as broad and at the same time as specific and practical a preparation for working with children in farm and non-farm rural communities as is possible in a period of two years.

The foregoing paragraphs are descriptive of the minimum requirements for the professional education of teachers. However, a student who wishes to become well-rounded in personality as well as to become a good teacher will take advantage of the many extra-curricular and cultural opportunities available at Western Michigan College of Education. We mention social activities such as parties, receptions, and teas; musical organizations such as glee clubs, orchestra, and band; social dancing, plays, athletics, church relationships, and many other features found in the school and in the city of Kalamazoo.
ELEMENTARY 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 4 for Subject Groupings)

Group I. Language and Literature ..................................12 semester hours
Rhetoric (in addition) .............................................6 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
Psychology of Reading 212 .........................................3 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 (Art, Music) ..................................6 semester hours

Group VI. Practical Arts

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 233, 330, or 331. Men are required to take 18 class hours. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)
Elective ..........................................................48 semester hours

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.
   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 education, librarianship, music, physical education, and special 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 in the 1947-48 Catalog.
   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.
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 4 for Subject Groupings)

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<td>Directed Teaching, Laboratory in Education, and General Educational Problems 370A, B, C</td>
<td>15</td>
</tr>
<tr>
<td>VII</td>
<td>Physical Education and Health</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical education: Women are required to take ten class hours, including Physical Education 100, one individual sport, and Physical Education 332. Men are required to take 18 class hours. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)</td>
<td></td>
</tr>
</tbody>
</table>
SPECIAL EDUCATION CURRICULUM—DEAF AND HARD OF HEARING

B.S. Degree

State Elementary Provisional Certificate

(For the preparation of teachers of the deaf and hard of hearing)

Group I. Language and Literature
- Rhetoric (in addition) - 6 semester hours
- Fundamentals of Speech 105A, B - 6 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 I. Language and Literature - 8 semester hours

Group II. Science
- General Biology 101A, B - 8 semester hours
- General Psychology 200 - 3 semester hours
- Abnormal Psychology 305 - 3 semester hours
- Mental Testing 307 - 2 semester hours
- Group II. Science - 8 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
- Problems of the Deaf and Hard of Hearing 234 - 3 semester hours
- Introduction to Lipreading 235 - 3 semester hours
- Advanced Lipreading 236 - 3 semester hours
- Audiometry and Hearing Aids 237 - 2 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 Education 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 18 class hours. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)

Elective - 26 semester hours

SPECIAL EDUCATION CURRICULUM—MENTALLY RETARDED

B.S. Degree

State Elementary Provisional Certificate

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

<table>
<thead>
<tr>
<th>Group I.</th>
<th>Language and Literature</th>
<th>12 semester hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rhetoric (in addition)</td>
<td>6 semester hours</td>
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<table>
<thead>
<tr>
<th>Group II.</th>
<th>Science</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>General Biology 101A, B</td>
</tr>
<tr>
<td></td>
<td>Hygiene 112 (or Health Education 285)</td>
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<tr>
<td></td>
<td>General Psychology 200</td>
</tr>
<tr>
<td></td>
<td>Abnormal Psychology 305</td>
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<tr>
<td></td>
<td>Mental Testing 307</td>
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<table>
<thead>
<tr>
<th>Group III.</th>
<th>Social Science</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Principles of Sociology 241</td>
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<tr>
<td></td>
<td>Modern Social Problems 242</td>
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<tr>
<td></td>
<td>Political Science</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
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<table>
<thead>
<tr>
<th>Group IV.</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Human Growth and Development 251</td>
</tr>
<tr>
<td></td>
<td>Introduction to Special Education 331</td>
</tr>
<tr>
<td></td>
<td>Mental Deficiency 332</td>
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<tr>
<td></td>
<td>Introduction to Mental Hygiene 335</td>
</tr>
<tr>
<td></td>
<td>Methods of Teaching Subnormal Children 337</td>
</tr>
<tr>
<td></td>
<td>Introduction to Directed Teaching 351</td>
</tr>
<tr>
<td></td>
<td>Directed Teaching, Laboratory in Education, and General Educational Problems 307A, B, C</td>
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<table>
<thead>
<tr>
<th>Group V.</th>
<th>Fine Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Illustrative Handwork 107</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Group VI.</th>
<th>Practical Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Special Education Shop 208</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Group VII.</th>
<th>Physical Education and Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical education: Women are required to take ten class hours, including Physical Education 100 and one individual sport. Men are required to take 18 class hours. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)</td>
<td></td>
</tr>
</tbody>
</table>

| Elective | 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.
SPECIAL EDUCATION CURRICULUM—OCCUPATIONAL THERAPY
B.S. Degree and Diploma
State Elementary Provisional Certificate
(For the preparation of teachers of occupational therapy)

Group I. Language and Literature
Rhetoric 106A, B .................................................. 6 semester hours
Fundamentals of Speech 105A .................................. 3 semester hours
Elective ................................................................. 11 semester hours

Group II. Science
General Biology 100A, B ........................................... 8 semester hours
Anatomy and Physiology (for Occupational Therapists) 215 4 semester hours
Kinesiology 216A, B .................................................. 4 semester hours
General Psychology 200 .......................................... 3 semester hours
*Neurology and Psychiatry 330 .................................. 3 semester hours
*Clinical Subjects 332 ............................................. 4 semester hours
*Clinical Observations 334 ....................................... 4 semester hours

Group III. Social Science
Political science ..................................................... 2-3 semester hours
Sociology 241 ......................................................... 3 semester hours
*Social Service in Hospitals 351 ................................. 3 semester hours
*Hospital Case Studies 352 ..................................... 3-4 semester hours

Group IV. Education
Theory of Occupational Therapy 210A, B and 310 ......... 6 semester hours
Human Growth and Development 251 .......................... 3 semester hours
Introduction to Directed Teaching 351 ......................... 3 semester hours
General Educational Problems 370C ........................... 3 semester hours
Directed Teaching 374 ............................................. 5 semester hours

Group V. Fine Arts
Elementary Design 105 ........................................... 3 semester hours
Modeling 111 ......................................................... 3 semester hours
Therapeutic Crafts 222A ......................................... 2 semester hours
Weaving 328 .......................................................... 4 semester hours
Bookbinding 329 ..................................................... 2 semester hours
Elective ................................................................. 2 semester hours

Group VI. Practical Arts
Printing 140A ....................................................... 3 semester hours
Special Education Shop 208 ...................................... 3 semester hours
Therapeutic Crafts 220, or 221 or 222 .......................... 2 semester hours
Stitchery 223 .......................................................... 4 semester hours
Rug Making 224 ....................................................... 1 semester hour
Basketry 226 ............................................................ 1 semester hour
Leatherwork 227 ...................................................... 1 semester hour

Group VII. Physical Education
All students are required to take four class hours of physical education, including Physical Education 100. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)

Clinical Training**
Nine calendar months at affiliating hospitals. This includes courses starred above, and undifferentiated credit totaling .......................................................... 9 semester hours

Note.—1. Thirty semester hours of college credit (as listed in First Year, Occupational Therapy Curriculum for Diploma, page 37) must be earned before the student is admitted to the School of Occupational Therapy. This admittance is based on the approval of the applicant by the Coordinating Committee of the school, on the basis of general aptitude for the work and the scholastic record submitted with the special application blank.

2. Granting of the Diploma of Occupational Therapy and registration in the American Occupational Therapy Association is conditional upon the student's passing a comprehensive examination over all required work.

*These courses are taught at the Kalamazoo State Hospital.
SPECIAL EDUCATION CURRICULUM—SPEECH CORRECTION

B.S. Degree

State Elementary Provisional Certificate

(For the preparation of teachers of speech correction)

Group I. Language and Literature
- Rhetoric (in addition) 6 semester hours
- Fundamentals of Speech 105A, B 6 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
- Stuttering and Allied Disorders 331 3 semester hours

Group II. Science
- General Biology 101A, B 8 semester hours
  or
  - Hygiene 112 2 semester hours
  and
  - 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 2 semester hours
- Elective 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 Speech Education 331 2 semester hours
- Mental Hygiene 333 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 18 class hours. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)
- Elective 26 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 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. A course in library methods is required.
4. Certain courses in some departments may not be counted toward satisfying the minimum group requirements. For further information regarding details of specialization in a department or field, see Introductory paragraphs for each department in the 1947-48 Catalog.
**UNDERGRADUATE CURRICULA**

**MUSIC CURRICULUM**

B.M. Degree with a major in Public School Music

State Elementary or Secondary Provisional Certificate

(For Instrumental or Vocal Supervisor)

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Major Performance</td>
<td>4</td>
</tr>
<tr>
<td>English Diction and Song Literature 122A, B</td>
<td>0</td>
</tr>
<tr>
<td>Freshman Theory 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Music Appreciation 107A, B</td>
<td>4</td>
</tr>
<tr>
<td>Elementary Acoustics 110</td>
<td>2</td>
</tr>
<tr>
<td>String Class 118A, B</td>
<td>2</td>
</tr>
<tr>
<td>Elective (non-music)**</td>
<td>8</td>
</tr>
<tr>
<td>Library Methods</td>
<td></td>
</tr>
<tr>
<td>Physical education or Band</td>
<td></td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance</td>
<td>4</td>
</tr>
<tr>
<td>Italian Diction and Song Literature 222A, B</td>
<td>0</td>
</tr>
<tr>
<td>Advanced Sight-Singing and Ear-Training 205A, B</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Harmony 206A, B</td>
<td>6</td>
</tr>
<tr>
<td>Elementary School Methods and Materials 208A, B</td>
<td>6</td>
</tr>
<tr>
<td>Woodwind Class 219A, B</td>
<td>2</td>
</tr>
<tr>
<td>Human Growth and Development 251</td>
<td>3</td>
</tr>
<tr>
<td>Elective (non-music)</td>
<td>7</td>
</tr>
<tr>
<td>Physical education or Band</td>
<td></td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance</td>
<td>4</td>
</tr>
<tr>
<td>Major Performance Literature 323*</td>
<td>0</td>
</tr>
<tr>
<td>or French Diction and Song Literature 322A, B</td>
<td>0</td>
</tr>
<tr>
<td>Junior and Senior High School Methods and Materials 301A, B</td>
<td>6</td>
</tr>
<tr>
<td>Style and Structure 310A*</td>
<td>3</td>
</tr>
<tr>
<td>Contemporary Music Literature 310B*</td>
<td>3</td>
</tr>
<tr>
<td>or Music Literature 207B</td>
<td>3</td>
</tr>
<tr>
<td>Instrumental Conducting 311A</td>
<td>1</td>
</tr>
<tr>
<td>Choral Conducting 311B</td>
<td>1</td>
</tr>
<tr>
<td>Brass Class 320A, B</td>
<td>2</td>
</tr>
<tr>
<td>Percussion Class 321</td>
<td>1</td>
</tr>
<tr>
<td>Introduction to Directed Teaching 351</td>
<td>3</td>
</tr>
<tr>
<td>American National Government 230.</td>
<td>3</td>
</tr>
<tr>
<td>or American State and Local Government 231</td>
<td>3</td>
</tr>
<tr>
<td>or Survey of American Government 234</td>
<td>2</td>
</tr>
<tr>
<td>Elective (non-music)</td>
<td>5</td>
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### Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance</td>
<td>4</td>
</tr>
<tr>
<td>Major Performance Literature 323*</td>
<td>0</td>
</tr>
<tr>
<td>or German Diction and Song Literature 324A, B</td>
<td>0</td>
</tr>
<tr>
<td>History of Music 357A, B</td>
<td>6</td>
</tr>
<tr>
<td>Integrated Professional Education 370A, B, C</td>
<td>15</td>
</tr>
<tr>
<td>Elective (non-music)</td>
<td>7</td>
</tr>
</tbody>
</table>

**Note:**
1. *Courses not required for students who will become Vocal Supervisors.
2. **For Vocal Supervisors, 6 semester hours of non-music electives are required in the first year.
**MUSIC CURRICULUM**

B.M. Degree with a major in Public School Music
State Elementary or Secondary Provisional Certificate
(For General Supervisor)

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Major Performance*</td>
<td>4</td>
</tr>
<tr>
<td>Freshman Theory 106A, B</td>
<td>6</td>
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<tr>
<td>Music Appreciation 107A, B</td>
<td>4</td>
</tr>
<tr>
<td>Elementary Acoustics 110</td>
<td>2</td>
</tr>
<tr>
<td>String Class 118A, B</td>
<td>2</td>
</tr>
<tr>
<td>English Diction and Song Literature 122A, B**</td>
<td>0</td>
</tr>
<tr>
<td>Elective (non-music)**</td>
<td>8</td>
</tr>
<tr>
<td>Library Methods</td>
<td></td>
</tr>
<tr>
<td>Physical education or Band</td>
<td></td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>Advanced Harmony 206A, B</td>
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</tr>
<tr>
<td>Elementary School Methods and Materials 208A, B</td>
<td>6</td>
</tr>
<tr>
<td>Woodwind Class 219A, B</td>
<td>2</td>
</tr>
<tr>
<td>Italian Diction and Song Literature 222A, B**</td>
<td>0</td>
</tr>
<tr>
<td>Human Growth and Development 251</td>
<td>3</td>
</tr>
<tr>
<td>Elective (non-music)</td>
<td>7</td>
</tr>
<tr>
<td>Physical education or Band</td>
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### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance</td>
<td>4</td>
</tr>
<tr>
<td>Major Performance Literature 323</td>
<td>0</td>
</tr>
<tr>
<td>French Diction and Song Literature 322A, B**</td>
<td>0</td>
</tr>
<tr>
<td>Junior and Senior High School Methods and Materials 301A, B</td>
<td>6</td>
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<tr>
<td>Style and Structure 310A</td>
<td>3</td>
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<tr>
<td>Instrumental Conducting 311A</td>
<td>1</td>
</tr>
<tr>
<td>Choral Conducting 311B</td>
<td>1</td>
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<tr>
<td>Brass Class 320A, B</td>
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</tr>
<tr>
<td>Percussion Class 321</td>
<td>1</td>
</tr>
<tr>
<td>Introduction to Directed Teaching 351</td>
<td>3</td>
</tr>
<tr>
<td>American National Government 230</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>American State and Local Government 231</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Survey of American Government 234</td>
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### Fourth Year

<table>
<thead>
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<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Major Performance</td>
<td>4</td>
</tr>
<tr>
<td>Major Performance Literature 323</td>
<td>0</td>
</tr>
<tr>
<td>German Diction and Song Literature 324A, B**</td>
<td>0</td>
</tr>
<tr>
<td>History of Music 357A, B</td>
<td>6</td>
</tr>
<tr>
<td>Integrated Professional Education 370A, B, C</td>
<td>15</td>
</tr>
<tr>
<td>Elective (non-music)</td>
<td>7</td>
</tr>
</tbody>
</table>

Note:—1. General supervisors are required to study voice two years and a single instrument two years.
2. **The student is required to enroll for this course only while his performance medium is voice.
3. ***The non-music electives should be used to complete the non-music minor.
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"*.

<table>
<thead>
<tr>
<th>Group</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>English</td>
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<tr>
<td></td>
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<td>3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Group II</th>
<th>Science²</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
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<td></td>
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<table>
<thead>
<tr>
<th>Group III</th>
<th>Social Science³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Economics 240</td>
<td>3</td>
</tr>
<tr>
<td>Rural Sociology 240</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Group IV</th>
<th>Education⁴</th>
</tr>
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<tbody>
<tr>
<td>Curriculum 145</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Directed Teaching 240</td>
<td>3</td>
</tr>
<tr>
<td>Directed Teaching 271</td>
<td>4</td>
</tr>
<tr>
<td>Rural Education 340</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Groups V. and VI.</th>
<th>Fine and Practical Arts⁵</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal and Social Problems 120</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Group VII</th>
<th>Physical Education and Health⁶</th>
</tr>
</thead>
<tbody>
<tr>
<td>Men: Elective</td>
<td>5</td>
</tr>
<tr>
<td>Women: Physical Education 100, Rural School Physical Education 233, and an elective</td>
<td></td>
</tr>
</tbody>
</table>

Library Methods | Non-credit |
|----------------|--------|

Elective⁷ | 13 |

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 help 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 4 semester hours credit.
5. Art Structure 106; Rural School Music 109; Industrial Art 110; Auxiliary Choir 134; Home Nursing 220; Clothes and Personality 203; Nutrition 219; Consumer Buying 339.

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; Swimming 110; Tennis 113; Archery 118; Badminton 120; Social Dancing 122.

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, 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 Life and 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 (or a group major and two 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.
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. A number of professions are now entirely on the graduate level; that is, a 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 requirements for the bachelor's degree have been satisfied. 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 College of Law, University of Illinois; the Schools of Commerce and Journalism of Northwestern University; the Divisions of Agriculture, Business Administration, and Engineering of Michigan State College; Nursing with Bronson Hospital; and Medical Technology with the Michigan Department of Health and Bronson 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
Elective (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
Elective (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 Department of Business Education offers a differentiated program for students interested in preparing for a business career. While the department does not prescribe a definite curriculum leading to the professional degree of B.B.A., it does offer a major sequence of courses in accounting, business law, and related subjects in the General Degree curriculum.

Students interested in pursuing, during their freshman and sophomore years, the pre-professional curriculum given below and transferring their credits to the professional schools at the University of Michigan or Northwestern University should exercise care to see that specific requirements for admission have been met.

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
Language or literature ..................................................................... 6-8 semester hours
Ancient and Medieval Civilization 105A, B ...................................... 6 semester hours
or
    Modern Europe 108A, B ............................................................... 6 semester hours
or
    English History 109A, B ............................................................... 6 semester hours
Elective .............................................................................................. 4-0 semester hours

Second Year

Accounting 210A, B ......................................................................... 6 semester hours
Principles of Economics 220A, B ....................................................... 6 semester hours
Introduction to Statistics 211 ............................................................ 2 semester hours
Language or literature ..................................................................... 2 semester hours
Secretarial Practice 250A ................................................................. 2 semester hours
Elective .............................................................................................. 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
Elective* ....................................................... 16 semester hours

Second Year

General Chemistry 100A, B, or 101A, B ......................... 8 semester hours
Mechanics, Heat, and Sound 203A, Electricity and Light 203B .......... 8 semester hours
Elective ....................................................... 14 semester hours

Third Year

Organic Chemistry 306A, B .................................... 8 semester hours
Elective .................................................................. 22 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 13.

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 ......................... 2 semester hours
Descriptive Geometry 222 ....................................... 3 semester hours
Elective .................................................................. 2-4 semester hours

Second Year

Chemical and Metallurgical

Calculus 205A, B ................................................. 8 semester hours
Mechanics, Heat, and Sound 203A, Electricity and Light 203B ....... 8 semester hours
Problems 204A, B ............................................... 2 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
Fundamentals of Speech 105A ..................................... 3 semester hours
Social science electives ........................................... 6 semester hours
Elective .................................................................. 6-8 semester hours
Second Year
Aeronautical, Civil, Electrical, Marine, and Mechanical
Calculus 205A, B ........................................... 8 semester hours
Mechanics, Heat, and Sound 203A, Electricity and Light 203B 8 semester hours
Problems 204A, B ........................................... 2 semester hours
Engineering Materials 210 .................................. 3 semester hours
Metal Processing 211 ...................................... 2 semester hours
Fundamentals of Speech 105A ................................ 3 semester hours
Group I elective ........................................... .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
Theoretical Mechanics 425 or elective ........................... 3 semester hours
Elective to total ........................................... 34 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
Elective (to be selected from literature or language) ........ 4-6 semester hours

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

Third Year
General Geology 230 ........................................... 3 semester hours
Surveying 210 ........................................... 3 semester hours
Elective (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) ........ 24 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
Elective ..................................................... 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
Elective ..................................................... 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)
College of Law, University of Illinois
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 preferred) 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

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
Elective (to be selected from Speech 105A, B; Money and Credit 221A, B; language or literature, or laboratory science) .................................................. 15 semester hours

Note.—1. An average scholarship of two honor points is required by the University of Michigan Law School.

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry</td>
<td>14</td>
</tr>
<tr>
<td>Physics</td>
<td>8</td>
</tr>
<tr>
<td>Biology</td>
<td>8</td>
</tr>
<tr>
<td>French, German, or Spanish</td>
<td>12-16</td>
</tr>
<tr>
<td>Elective to total</td>
<td>90</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>General Biology 100A, B</td>
<td>8</td>
</tr>
<tr>
<td>General Chemistry 100A, B, or 101A, B</td>
<td>8</td>
</tr>
<tr>
<td>French or German</td>
<td>8</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Literature 107A</td>
<td>3</td>
</tr>
<tr>
<td>Mechanics, Sound, and Heat 203A, Electricity and Light 203B</td>
<td>8</td>
</tr>
<tr>
<td>Qualitative Analysis 201, Quantitative Analysis 202</td>
<td>8</td>
</tr>
<tr>
<td>French or German</td>
<td>8</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Literature 107B</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry 306A, B</td>
<td>8</td>
</tr>
<tr>
<td>Principles of Economics 220A, B</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Sociology 241</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology 200</td>
<td>3</td>
</tr>
<tr>
<td>Anatomy 211A</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

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 present, Wayne University will accept 60 semester hours for entrance. For details, see Wayne University catalog.
UNDERGRADUATE CURRICULA

MEDICAL TECHNOLOGY

The first three years of this curriculum meet the scholastic requirements for admission to the laboratory training school of the Michigan Department of Health and of the Registry of the American Society of Clinical Pathologists. Upon successful completion of the fourth year, the student may be granted the degree of Bachelor of Science, if all requirements have been satisfied.

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Intermediate Algebra 100A, Solid Euclidean Geometry 100B</td>
<td>5</td>
</tr>
<tr>
<td>or Trigonometry and College Algebra 103A, College Algebra and</td>
<td></td>
</tr>
<tr>
<td>Analytic Geometry 103B</td>
<td>10</td>
</tr>
<tr>
<td>or College Algebra and Analytic Geometry 104A, B</td>
<td>8</td>
</tr>
<tr>
<td>General Chemistry 100A, B, or 101A, B</td>
<td>8</td>
</tr>
<tr>
<td>General Biology 100A, B</td>
<td>8</td>
</tr>
<tr>
<td>Group I elective</td>
<td>4-6</td>
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</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualitative Analysis 201, Quantitative Analysis 202</td>
<td>8</td>
</tr>
<tr>
<td>Bacteriology 212 Zoology 242B</td>
<td>8</td>
</tr>
<tr>
<td>Group I elective</td>
<td>6-8</td>
</tr>
<tr>
<td>Group III elective</td>
<td>6</td>
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</table>

**Third Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanics Sound and Heat 203A, Electricity and Light 203B</td>
<td>8</td>
</tr>
<tr>
<td>Organic Chemistry 306A</td>
<td>4</td>
</tr>
<tr>
<td>Bio-Chemistry 350, 351</td>
<td>3</td>
</tr>
<tr>
<td>Physiology 211</td>
<td>4</td>
</tr>
<tr>
<td>Group I elective</td>
<td>3-4</td>
</tr>
<tr>
<td>Group III elective</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Technology 335 (400)</td>
<td>30</td>
</tr>
</tbody>
</table>

During the fourth year, the student registers for Medical Technology 335 (400), a twelve months course given in the laboratory training school of the Michigan Department of Health and/or approved hospital training schools.
LIBRARYSHIP CURRICULUM
A.B. or B.S. Degree with a major in Librarianship
(For County Librarians)

First Year

Rhetoric 106A, B .................................................. 6 semester hours
General Biology 100A, B
or
General Chemistry 100A, B ...................................... 8 semester hours
History ................................................................. 6 semester hours
Modern Language .................................................. 8 semester hours
Electives .................................................................. 2-3 semester hours

Library Methods
Physical Education

Second Year

General Psychology 200 ............................................. 3 semester hours
Fundamentals of Speech 105A, B ................................. 6 semester hours
American State and Local Government 231 .................... 3 semester hours
Human Growth and Development 251 ......................... 3 semester hours
Principles of Sociology 241 ...................................... 3 semester hours
English ...................................................................... 6 semester hours
History ...................................................................... 3 semester hours
Electives .................................................................. 3 semester hours

(Students may elect Reading Interest of Children 202 3 semester hours)
Physical Education

Third Year

Reading Interests of Youth 302 .................................. 3 semester hours
or
Reading Interests of Children 202 ................................. 3 semester hours
Selection of Reading Materials 303 ......................... 3 semester hours
Organization of Library Materials 360 .................... 2 semester hours
Reference Service 311 ............................................. 3 semester hours
Cataloging and Classification 370 ......................... 3 semester hours
Rural Economics 241 ............................................. 3 semester hours
Rural Sociology 242 ............................................. 3 semester hours
American Rural Government 332 ......................... 3 semester hours
Electives ................................................................ 5 or 8 semester hours

Fourth Year

Library in the Modern Community 362 ...................... 2 semester hours
Administration of County Libraries 363 ................. 3 semester hours
Public Speaking 206 ............................................. 2 semester hours
Curriculum Enrichment 305 ....................................... 3 semester hours
Reading Interest of Adults 304 ................................. 2 semester hours
Library Observation and Practice 330 .................. 2-3 semester hours
Electives (English or History) .................................. 6 semester hours
Electives .................................................................. 3 semester hours

(A period of block practice in a county library preceding the opening of college in the fourth year).

Note.—For the Librarianship Curriculum leading to a Teaching Certificate (School Librarian) see page 50.
UNDERGRADUATE CURRICULA

MUSIC

B.M. Degree with a major in Voice*

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>Voice 45A, B</td>
<td>6</td>
</tr>
<tr>
<td>Freshman Theory 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Elementary Acoustics 110</td>
<td>2</td>
</tr>
<tr>
<td>Piano Class 117A, B</td>
<td>2</td>
</tr>
<tr>
<td>English Diction and Song Literature 122A, B</td>
<td>0</td>
</tr>
<tr>
<td>Elective</td>
<td>10</td>
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</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voice 46A, B</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Sight-Singing and Ear-Training 205A, B</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Harmony 206A, B</td>
<td>6</td>
</tr>
<tr>
<td>Music Literature 207A, B</td>
<td>6</td>
</tr>
<tr>
<td>Italian Diction and Song Literature 222A, B</td>
<td>0</td>
</tr>
<tr>
<td>English Literature 107A, B</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>General Literature 124A, B</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Nineteenth Century Prose 205A, B</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td>4</td>
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Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voice 47A, B</td>
<td>6</td>
</tr>
<tr>
<td>Counterpoint 305A, B</td>
<td>6</td>
</tr>
<tr>
<td>Composition 306A, B</td>
<td>6</td>
</tr>
<tr>
<td>Style and Structure 310A</td>
<td>3</td>
</tr>
<tr>
<td>Contemporary Music Literature 310B</td>
<td>3</td>
</tr>
<tr>
<td>Choral Conducting 311B</td>
<td>1</td>
</tr>
<tr>
<td>French Diction and Song Literature 322A, B</td>
<td>0</td>
</tr>
<tr>
<td>Elective</td>
<td>7</td>
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</table>

Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voice 48A, B</td>
<td>6</td>
</tr>
<tr>
<td>Orchestration 355A, B</td>
<td>6</td>
</tr>
<tr>
<td>History of Music 357A, B</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Conducting 351A, B</td>
<td>2</td>
</tr>
<tr>
<td>German Diction and Song Literature 324A, B</td>
<td>0</td>
</tr>
<tr>
<td>Elective</td>
<td>12</td>
</tr>
</tbody>
</table>

Note.—A minimum of 12 and a maximum of 18 additional semester hours in subjects of academic and cultural value are required. The balance of credits offered toward the Bachelor of Music degree must be music credits, and should be determined with the major professor’s assistance. The Bachelor of Music degree with a voice major requires of the student the ability to pass a piano examination on level 2.
# MUSIC

## B.M. Degree with an Instrumental major*

### 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>Major Performance, level 5, A, B</td>
<td>6</td>
</tr>
<tr>
<td>Freshman Theory 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Elementary Acoustics 110</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>12</td>
</tr>
<tr>
<td>Library Methods</td>
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</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance, level 6, A, B</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Sight-Singing and Ear-Training 205A, B</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Harmony 206A, B</td>
<td>6</td>
</tr>
<tr>
<td>Music Literature 207A, B</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td>10</td>
</tr>
<tr>
<td>Library Methods</td>
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</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance, level 7, A, B</td>
<td>6</td>
</tr>
<tr>
<td>Counterpoint 305A, B</td>
<td>6</td>
</tr>
<tr>
<td>Composition 306A, B</td>
<td>6</td>
</tr>
<tr>
<td>Style and Structure 310A</td>
<td>3</td>
</tr>
<tr>
<td>Contemporary Music Literature 310B</td>
<td>3</td>
</tr>
<tr>
<td>Instrumental Conducting 311A</td>
<td>1</td>
</tr>
<tr>
<td>Choral Conducting 311B</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>10</td>
</tr>
<tr>
<td>Library Methods</td>
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</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance, level 8, A, B</td>
<td>6</td>
</tr>
<tr>
<td>Major Performance Literature</td>
<td>2</td>
</tr>
<tr>
<td>Orchestration 355A, B</td>
<td>6</td>
</tr>
<tr>
<td>History of Music 357A, B</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td>12</td>
</tr>
<tr>
<td>Library Methods</td>
<td></td>
</tr>
</tbody>
</table>

Note.—*A minimum of 12 and a maximum of 24 additional semester hours in subjects of a general and cultural value are required. The balance of the credits offered toward the Bachelor of Music degree must be music credits and should be determined with the major professor's assistance. The Bachelor of Music degree with an instrumental major requires of the student the ability to pass a piano examination on level 2. See page 165 of the 1947-48 catalog for specific number of courses indicating the various levels.*
MUSIC
B.M. Degree with a major in Composition*

**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>Applied Music**</td>
<td>4</td>
</tr>
<tr>
<td>Freshman Theory 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>String Class 118A, B</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>14</td>
</tr>
<tr>
<td>Library Methods</td>
<td></td>
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</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Music</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Sight-Singing and Ear-Training 205A, B</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Harmony 206A, B</td>
<td>6</td>
</tr>
<tr>
<td>Music Literature 207A, B</td>
<td>6</td>
</tr>
<tr>
<td>Woodwind Class 219A, B</td>
<td>2</td>
</tr>
<tr>
<td>Style and Structure 310A</td>
<td>3</td>
</tr>
<tr>
<td>Contemporary Music Literature 310B</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>4</td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Music</td>
<td>6</td>
</tr>
<tr>
<td>Counterpoint 305A, B</td>
<td>6</td>
</tr>
<tr>
<td>Composition 306A, B</td>
<td>6</td>
</tr>
<tr>
<td>Instrumental Conducting 311A</td>
<td>1</td>
</tr>
<tr>
<td>Choral Conducting 311B</td>
<td>1</td>
</tr>
<tr>
<td>Brass Class 320A, B</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>10</td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Music</td>
<td>6</td>
</tr>
<tr>
<td>Orchestration 355A, B</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Composition 356A, B</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td>14</td>
</tr>
</tbody>
</table>

Note.—1. *The student will study applied music throughout his four-year course. He must study enough piano to pass an examination on level 2. A minimum of 12 and a maximum of 24 additional semester hours in subjects of a general cultural value are required. The balance of credits offered must be music credits and should be determined with the major professor's assistance.

2. **The student will be advised what course number to enroll for after he has taken his placement examination at the time of his original registration.
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
Elective* ............................................................... 10 semester hours

Second Year
Anatomy and Physiology (for Nurses) 213 ................................ 4 semester hours
Chemistry (for Nurses) 106 ........................................... 3 semester hours
Bacteriology (for Nurses) 214 ....................................... 3 semester hours
Sociology (for Nurses) 244 ........................................... 2 semester hours
Nutrition 219 ............................................................ 2 semester hours
General Psychology (for Nurses) 202 ................................ 2 semester hours

Third and Fourth Years at Bronson Hospital

Fifth Year
English or foreign language ...................................... 12 semester hours
Survey of American Government 284 ............................... 2 semester hours
Modern Social Problems 242 ....................................... 3 semester hours
Elective ................................................................. 13 semester hours

Note.—1. *General Chemistry 100A, B is required unless high-school chemistry was presented for entrance.
2. In addition to the 76 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 to be taken in the first and fifth years.
4. A course in library methods is required.
OCCUPATIONAL THERAPY
B.S. Degree and/or Diploma

First Year

Rhetoric 106A, B .................................................. 6 semester hours
Fundamentals of Speech 105A .................................. 3 semester hours
General Biology 100A, B ........................................ 8 semester hours
Elementary Design 215 ........................................... 3 semester hours
Modeling 111 ......................................................... 3 semester hours
Ceramics and Jewelry 225 .................................... 3 semester hours
Printing 140A .......................................................... 3 semester hours
Elective from Group I ............................................. 4 or 7 semester hours

Second Year

Anatomy and Physiology (for Occupational Therapists) 215 .................. 4 semester hours
Kinesiology 216A ................................................... 2 semester hours
Theory of Occupational Therapy 210A, B ........................................ 4 semester hours
General Psychology 200 ............................................ 3 semester hours
Special Education Shop 208 ..................................... 3 semester hours
Therapeutic Crafts 220, 221, or 222 ................................ 4 semester hours
Stitchery 223 ............................................................. 4 semester hours
Rug Making 224 ......................................................... 1 semester hour
Basketry 226 ............................................................. 1 semester hour
Leatherwork 227 ....................................................... 1 semester hour
Elective ................................................................. 3 semester hours

Third and Fourth Years

Kinesiology 216B ....................................................... 2 semester hours
Political science .......................................................... 2-3 semester hours
Weaving 228 ............................................................. 4 semester hours
Clinical Training (at affiliating hospitals)
  Neurology and Psychiatry 330 ................................ 3 semester hours
  Clinical Subjects 332 ............................................. 4 semester hours
  Clinical Observations 334 ...................................... 4 semester hours
  Social Service in Hospitals 330 ................................ 3 semester hours
  Hospital Case Studies 332 ..................................... 3-4 semester hours
  Undifferentiated credit ........................................... 9 semester hours
Theory of Occupational Therapy 310 ........................................ 2 semester hours
Bookbinding 229 ......................................................... 2 semester hours
Elective from Group I ............................................. 5 semester hours
Elective ................................................................. 9 semester hours

Note.—1. Thirty semester hours of college credit (as listed in first year above) must
be earned before the student is admitted to the School of Occupational Therapy.
This admittance is based on the approval of the applicant by the Coordinating
Committee of the school, on the basis of general aptitude for the work and the
scholastic record submitted with the special application blank.

2. Granting of the Diploma of Occupational Therapy and registration
in the American Occupational Therapy Association is conditional upon the student’s pass-
ing a comprehensive examination over all required work.

3. A course in library methods is required.

4. For additional information see page 124 of the 1947-48 catalog.
SOCIAL WORK
A.B. or B.S. Degree With Certificate in Social Work

First Year
Rhetoric 106A, B .................. 6 semester hours
Fundamentals of Speech 105A .................. 3 semester hours
General Biology 100A, B .................. 8 semester hours
Modern Europe 108A, B or Foundations of Western Civilization 100A, B or United States History 200A, B .................. 6 semester hours
Electives .................. 7 semester hours

Second Year
General Psychology 200 .................. 8 semester hours
Psychology of Personality 200 or Introduction to Mental Hygiene 234 .................. 3 semester hours
Principles of Sociology 241 .................. 3 semester hours
Modern Social Problems 242 .................. 3 semester hours
Social Psychology 243 .................. 2 semester hours
Principles of Economics 220A, B .................. 6 semester hours
Electives .................. 10 semester hours

Third Year
The Field of Social Work 255 .................. 2 semester hours
Any 3 of the following sociology courses:
Rural Sociology 245 .................. 3 semester hours
Problems of Family Life 247 .................. 3 semester hours
Cultural Anthropology 248 .................. 3 semester hours
Urban Community 340 .................. 2 semester hours
Social Control 341 .................. 2 semester hours
Criminology 342 .................. 3 semester hours
Population 343 .................. 3 semester hours
Race and Inter-cultural Relations 347 .................. 2 semester hours
Contemporary Social Movements 349 .................. 2 semester hours
American National Government 320 .................. 3 semester hours
American State and Local Government 281 .................. 3 semester hours
Electives .................. 13-14 semester hours

Fourth Year
Introduction to Social Research 348 .................. 3 semester hours
Family and Child Welfare 351 .................. 2 semester hours
Social Legislation and Public Welfare 353 .................. 3 semester hours
Principles of Social Work 355 .................. 3 semester hours
Orientation to Field Work 358A .................. 2 semester hours
Supervised Field Work 358B .................. 3 semester hours
Electives .................. 14 semester hours

Note.—1. This curriculum conforms to the standards of the National Association of Schools of Social Administration. It is designed to prepare students for the lower levels of social work positions, and for the civil service examinations required for employment in many public agencies. It also provides considerable pre-professional education for graduate training in social work. Graduates who continue in social work as a profession should plan to take, as early as possible, one or two years of professional social work training at the graduate level.

2. The required courses in this curriculum provide for a social science major of 34 or 35 semester hours and a minor in social work of 18 semester hours. Some 44 semester hours of elective courses are allowed. These electives should be used primarily to fulfill the requirements for the general degree and to strengthen the general education of the student. To meet the need of certain students for special skill, however, some elections from such tool subjects as the following may well be considered. Elementary Typewriting 101A, Home and Its Management 222, Economics of Consumption 223, Community Recreation, Scouting, and Campfire 276, Laboratory and Psychological Testing 302, Clinical Psychology 309, Human Genetics 306, and Labor Problems 325A, B. Some students in their senior year may find it advisable, also to elect some of the more specialized courses in social work offered in the Graduate Division.

3. A course in library methods is required.

4. Ten class hours of physical education are required for women; 18 class hours for men.
VOCATIONAL AND PRACTICAL ARTS EDUCATION CURRICULA

Western Michigan College of Education accepts as one of its functions the training, on a pre-service as well as in-service basis, of teachers and other persons interested in acquiring technical instruction of a highly specialized character. At present there is a fairly wide range of instructional programs offered in Business Training, Home Economics, Industrial Arts Education, and Trade and Industrial Education. The primary objective of these curricula is training for vocational competency. Some of the courses of study are open to youths and adults whose academic background does not necessarily include subject matter sequences required for regular college admission. In most cases, however, the student should present evidence of high school graduation, or certain occupational experiences indicating that he could profit from the instruction.

Employees in offices, stores, and industries may be admitted as special students in the in-service vocational courses without reference to previous school experience, provided they are recommended for such training by a responsible official of the employing firm.

Business Training

In the field of business, there are at present three programs available to the student interested in qualifying for selling, secretarial, or junior administrative positions. The two-year terminal curricula in retail selling and secretarial practice accommodate students who wish to secure comprehensive occupational training on a standard college basis but who do not choose to remain in college for the full four-year course. Both of these programs are on a cooperative work-and-study basis, thus assuring the student of every available opportunity to meet, on a practicable paid basis, the requirements of the full-time job for which he is preparing. For students interested in preparing for a career in business on a junior administrator level, the Department of Business Education makes available a four-year vocational training program in secretarial science and office management.

Home Economics

Short courses are offered to the adults of the community. These courses consist of various units in nutrition, clothing, home furnishings, consumer buying, etc., of interest to the group. College credit is not given.

The Department of Home Economics is working toward a four-year course for dietitians. A two-year terminal course is offered to students who do not intend to graduate. This course is planned to help young women who wish to make homemaking a career.

Industrial Arts Education

This department offers a wide variety of opportunities for vocational training. The areas of instruction cover woodwork, drawing, printing, and metal shop. All the elementary courses are open to women.

Trade and Industrial Education

Courses are offered for aviation mechanics, machine tool operators, machinists, tool and die makers, sheet metal workers, arc and oxy-acetylene welders, and radio service and communication specialists. There are courses in air conditioning and refrigeration, shop maintenance, cabinet making, pattern making, shop mathematics, blueprint reading, and machine drafting. Courses are set up in units and vary in length.
B.S. Degree

The following business administration curriculum is designed for students interested in business training as preparation for employment in business or for ownership of a small business establishment. While the program is eight semesters in length, an effort has been made to incorporate a broad business training in the first four semesters, so that students may terminate their training at that time, if need be, with a feeling of definite vocational preparation. The program permits degree candidates to concentrate in one of the following fields of business specialization: accounting, retailing, or general business.

Any high school graduate is eligible for admission to the first four semesters of the program. To be eligible to continue beyond the fourth semester as a degree candidate, regular college entrance requirements must be met.

First and Second Years

Rhetoric 106A, B ........................................ 6 semester hours
Statistical and Financial Ratios 212 .................. 3 semester hours
Description of Industry 120A, B ...................... 4 semester hours
Accounting Principles 210A, B ......................... 6 semester hours
Principles of Economics 220A, B ...................... 6 semester hours
Business Insurance and Taxes 222 .................... 3 semester hours
Business Correspondence 232 ......................... 3 semester hours
Business Problems 239* ................................ 3 semester hours
Electives** ............................................ 29 semester hours

Third and Fourth Years

Introduction to Commercial Geography 218 .......... 3 semester hours
or
Advanced Commercial Geography 318 ................ 3 semester hours
General Psychology 200 ................................ 3 semester hours
Introduction to Statistics 211 ......................... 2 semester hours
Mathematics of Finance 227 .......................... 3 semester hours
Mathematics of Insurance 228 ......................... 3 semester hours
American National Government 230 ................. 3 semester hours
American State and Local Government 231 ......... 3 semester hours
Economic History of the United States 312 ......... 3 semester hours
Business Law 330A, B .................................. 6 semester hours

In addition to the preceding requirements all degree candidates are required to specialize in one of three fields: (1) accounting, (2) retailing, or (3) general business. For specialization in these fields the following courses are required:

For specialization in accounting:
Accounting Principles 210A, B .......................... 6 semester hours
Advanced Accounting 310A, B .......................... 6 semester hours
Cost Accounting 311 ................................... 3 semester hours
Tax Accounting 312 .................................... 3 semester hours

For specialization in retailing—a minimum of 12 semester hours from the following:
Fundamentals of Retailing 140A, B ..................... 6 semester hours
Retail Publicity 240 .................................... 3 semester hours
Retail Credit and Collections 241 ...................... 3 semester hours
Store Organization 251A, B ............................ 4 semester hours
For specialization in general business—a minimum of 12 semester hours from the following:

- Money and Credit 221A, B ........................................ 4 semester hours
- Business Administration 321 ..................................... 3 semester hours
- Corporations 322 ...................................................... 3 semester hours
- Marketing 323 ......................................................... 3 semester hours
- Transportation 324 .................................................... 3 semester hours
- Labor Problems 325A, B .............................................. 4 semester hours
- Business and Government 326 ...................................... 3 semester hours

Note—1. *Class enrollment is limited to business administration students terminating their training at the end of the fourth semester.
2. **As prerequisite for continuing training in the third and fourth years, the following courses are required and are to be taken as elective courses:
   - Trigonometry and College Algebra 103A, B or
   - College Algebra and Analytic Geometry 104A, B.
   - Fundamentals of Speech 105A, B
   - Language or literature (minimum of 6 semester hours)
3. Physical education: Women are required to take ten class hours, including Physical Education 100 and one individual sport. Men are required to take 18 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 BUSINESS CURRICULUM

B.S. Degree
State Temporary Vocational Coordinators Certificate
State Secondary Provisional Certificate

(For preparation of teachers and coordinators of vocational business)

The prerequisites to admission to this curriculum are:

1. Junior year standing and completion of certain group requirements.
2. Completion of a minimum of 15 semester hours in Secretarial Training or Retail Training.
3. Satisfactory evidence of having had one year of work experience in a store or office.

Note.—Work Experience gained prior to matriculation in this curriculum must be evidenced by signed reports from the store or office in which the experience was gained.

A minimum of two years of approved work experience in the occupational field in which the student is majoring is required for graduation. Graduates meeting the specified requirements will be eligible for a temporary Vocational Coordinator's Certificate. This certificate is granted by the State Board of Control for Vocational Education.

Third Year

- Business Administration 321 ...................................... 3 semester hours
- Labor Problems 325A, B .............................................. 4 semester hours
- Survey of American Government 234 ................................ 2 semester hours
- Secretarial or Retailing (Groups A or B)2 ......................... 9 semester hours
- Elective (Group II) ................................................. 8 semester hours
- Elective (Group I) .................................................... 2-4 semester hours
### Western Michigan College of Education

**Fourth Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directed Teaching 370A</td>
<td>8</td>
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<tr>
<td>Laboratory in Education 370B</td>
<td>4</td>
</tr>
<tr>
<td>Business Problems 339</td>
<td>3</td>
</tr>
<tr>
<td>*Principles of Vocational Education 570 (E100)</td>
<td>2</td>
</tr>
<tr>
<td>Secretarial or Retailing (Groups C or D)</td>
<td>7</td>
</tr>
<tr>
<td>Elective (Group III)</td>
<td>7</td>
</tr>
</tbody>
</table>

**Laboratory in Education 370B**

- 370A: 4 semester hours
- 370B: 3 semester hours
- 370C: 2 semester hours
- 370D: 7 semester hours

**Post Graduate—Summer Session**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Analysis and Preparation of Instructional Materials 502 (E152)</td>
<td>2</td>
</tr>
<tr>
<td>*Methods of Teaching Vocational Education 503 (E153)</td>
<td>2</td>
</tr>
<tr>
<td>*Coordination in Vocational Education 575 (E106)</td>
<td>2</td>
</tr>
</tbody>
</table>

**Note.**—1. *Starred courses carry graduate credit toward a Master's Degree.*
2. Group A (secretarial) includes Secretarial Science 130A, Secretarial Practice 230A, B, and Filing Principles 236; Group B (Retailing) includes Fundamentals of Retailing 140, Merchandise and Job Analysis 151A, and Retail Salesmanship 150; Group C (Secretarial) includes Secretarial Accounting 211A, B or Accounting Principles 210A, B; and Group D (Retailing) includes Retail Publicity 240 or Retail Credits and Collections 241 and Store Organization A, B.

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**Secretarial Science and Office Management**

**B.S. Degree**

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>*Secretarial Science 130A, B</td>
<td>10</td>
</tr>
<tr>
<td>College Algebra and Analytic Geometry 104A, B</td>
<td>10</td>
</tr>
<tr>
<td>Description of Industry 120A, B</td>
<td>4</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Accounting Principles 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>Language or literature</td>
<td>6-8</td>
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<tr>
<td>Fundamentals of Speech 105A, B</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td>2-1</td>
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**Third Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Business Correspondence 232</td>
<td>3</td>
</tr>
<tr>
<td>*Office Organization and Management 239</td>
<td>3</td>
</tr>
<tr>
<td>*Business Law 320A</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology 200</td>
<td>3</td>
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<tr>
<td>Introduction to Statistics 211</td>
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<td>Elective</td>
<td>16</td>
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</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Personnel Administration 336</td>
<td>3</td>
</tr>
<tr>
<td>*Business Problems 339</td>
<td>3</td>
</tr>
<tr>
<td>Psychology of Personality 207</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>22</td>
</tr>
</tbody>
</table>

**Note.—**1. *Courses required for a major sequence in this curriculum are starred.*
2. Physical education: Women are required to take ten class hours, including Physical Education 100 and one individual sport. Men are required to take eighteen class hours. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)
3. A course in library methods is required.
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, 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 adviser before making a selection of electives.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retail Records 111</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of Retailing 140A, B</td>
<td>6</td>
</tr>
<tr>
<td>Retail Salesmanship 150</td>
<td>3</td>
</tr>
<tr>
<td>Merchandise and Job Analysis 151A, B</td>
<td>6</td>
</tr>
<tr>
<td>Personal and Social Problems 120</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>11</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interior and Window Display 224</td>
<td>2</td>
</tr>
<tr>
<td>Retail Credit and Collections 241</td>
<td>3</td>
</tr>
<tr>
<td>Store Organization 251A, B</td>
<td>4</td>
</tr>
<tr>
<td>Retail Publicity 240</td>
<td>3</td>
</tr>
<tr>
<td>Coordinated Business Experience 200A, B</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>16</td>
</tr>
</tbody>
</table>

Note.—1. Physical education: Women are required to take four class hours including Physical Education 100, and one individual sport. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)

2. A course in library methods is required.

COOPERATIVE PROGRAM IN SECRETARIAL TRAINING (Two Years)

This curriculum is intended primarily for those students who wish to qualify for various types of clerical and stenographic positions while enjoying the advantages of social and cultural contacts available to regular college students. The courses are so organized that the student may get basic training in fields other than vocational.

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

An important feature of this course is the requirement that the student accept part-time employment during the second year. The work experience is a definite part of the instructional plan of the program and is under the direction of a co-ordinator.

Graduates of this course receive the Secretarial Diploma and are assisted by the college and departmental placement offices in securing suitable full-time positions.

High-school graduates who are admitted to this curriculum without having the regular college entrance sequences may qualify for a degree by removing the deficiencies.
Enrollment in this curriculum is definitely limited. Therefore, students desiring to pursue this curriculum should make application at least thirty days before the date of actual matriculation.

First Year

Rhetoric 106A, B ........................................ 6 semester hours
Description of Industry 120A, B ...................... 4 semester hours
Business Mathematics 120 ................................. 2 semester hours
Secretarial Science 130A, B* ............................ 10 semester hours
Personal and Social Problems 120 ...................... 1 semester hour
Elective ..................................................... 7 semester hours

Second Year

Secretarial Accounting 211A, B ......................... 6 semester hours
Principles of Economics 220A, B ......................... 6 semester hours
Secretarial Practice 230A, B .............................. 4 semester hours
Filing Principles and Techniques 236 .................. 2 semester hours
Coordinated Business Experience 200A, B ............ 2 semester hours
Elective ..................................................... 10 semester hours

Physical education

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 six 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.

HOMEMAKING (Two Years)*

(For students who do not plan to get a degree)

First Year

First Semester

Problems in Home Living 100 ............................. 1 semester hour
Clothing Clinic and Textiles 103 ......................... 3 semester hours
and
Elementary Design 105 .................................... 2 semester hours
or
Foods 111 .................................................. 3 semester hours
and
Hygiene 112 ................................................ 2 semester hours
Rhetoric 106A .............................................. 3 semester hours
General Biology 100A ...................................... 4 semester hours
Elective (to be selected from history, English, or speech) 3 semester hours
Library Methods

Second Semester

Clothing Clinic and Textiles 103 .......................... 3 semester hours
and
Elementary Design 105 .................................... 2 semester hours
or
Foods 111 .................................................. 3 semester hours
and
Hygiene 112 ................................................ 2 semester hours
Rhetoric 106B .............................................. 3 semester hours
Elective (to be selected from history, English, or speech) 7 semester hours
Physical education
### UNDERGRADUATE CURRICULUMS

#### Second Year

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clothing 205</td>
<td>3</td>
</tr>
<tr>
<td>or Nutrition 211</td>
<td>3</td>
</tr>
<tr>
<td>or Costume Design 209</td>
<td>2</td>
</tr>
<tr>
<td>or Home Furnishings 221</td>
<td>2</td>
</tr>
<tr>
<td>Home Nursing 223</td>
<td>2</td>
</tr>
<tr>
<td>American State and Local Government 231</td>
<td>3</td>
</tr>
<tr>
<td>Elective (to be selected from economics or sociology)</td>
<td>3</td>
</tr>
<tr>
<td>Elective (to be selected from English, speech, history, or science)</td>
<td>3</td>
</tr>
<tr>
<td>Physical education</td>
<td></td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clothing 205</td>
<td>3</td>
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<tr>
<td>or Nutrition 211</td>
<td>3</td>
</tr>
<tr>
<td>or Costume Design 209</td>
<td>2</td>
</tr>
<tr>
<td>or Home Furnishings 221</td>
<td>2</td>
</tr>
<tr>
<td>Human Growth and Development 231</td>
<td>3</td>
</tr>
<tr>
<td>Household Physics 202</td>
<td>2</td>
</tr>
<tr>
<td>Elective (to be selected from economics or sociology)</td>
<td>3</td>
</tr>
<tr>
<td>Elective (to be selected from English, speech, history, or science)</td>
<td>3</td>
</tr>
<tr>
<td>Physical education</td>
<td></td>
</tr>
</tbody>
</table>

Note.—*For information concerning the four-year course in Home Economics see page 305 of the 1947-1948 Catalog.*

#### AIR TRANSPORTATION CURRICULUM

**B.S. Degree**

The Air Transportation Curriculum is a four-year course leading to a B.S. degree. It is designed to train students to manage and operate airports and for various administrative, supervisory, and sales positions in the business field of aviation. In addition to meeting the necessary requirements for a Bachelor of Science degree, the curriculum requires concentration in four areas—mechanics, pilot training, business administration, and airport operation. Sufficient work is given in mechanics to meet the requirements for a CAA airplane and engine mechanics license. A minimum of 35 hours of flight training leading to a private pilot’s license is required of all students.

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Applied Mathematics 112</td>
<td>2</td>
</tr>
<tr>
<td>Speech 105A</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics of Buying and Investment 200</td>
<td>2</td>
</tr>
<tr>
<td>Aircraft Structures 152</td>
<td>2</td>
</tr>
<tr>
<td>Aircraft Welding 156</td>
<td>2</td>
</tr>
<tr>
<td>Aircraft Electricity 150</td>
<td>2</td>
</tr>
<tr>
<td>Engine Assembly and Disassembly 153</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>11</td>
</tr>
</tbody>
</table>

| Total                                | 32             |


# Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Economics 220A, B</td>
<td>6</td>
</tr>
<tr>
<td>Accounting 210</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology 200</td>
<td>3</td>
</tr>
<tr>
<td>Psychology of Personality 207</td>
<td>3</td>
</tr>
<tr>
<td>Survey of American Government 234</td>
<td>2</td>
</tr>
<tr>
<td>Statistical and Financial Ratio 212</td>
<td>3</td>
</tr>
<tr>
<td>Pilot Training and Flight Theory 294</td>
<td>2</td>
</tr>
<tr>
<td>Aircraft Sheetmetal 254</td>
<td>2</td>
</tr>
<tr>
<td>Aircraft Maintenance 257</td>
<td>2</td>
</tr>
<tr>
<td>Aircraft Hydraulics and Brakes 252</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>4</td>
</tr>
</tbody>
</table>

Total: 32 semester hours

---

# Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Organization and Management 239</td>
<td>3</td>
</tr>
<tr>
<td>Cost Accounting 311</td>
<td>3</td>
</tr>
<tr>
<td>Labor Problems 325</td>
<td>3</td>
</tr>
<tr>
<td>Business Correspondence and Report Writing 330</td>
<td>3</td>
</tr>
<tr>
<td>Tax Accounting 312</td>
<td>3</td>
</tr>
<tr>
<td>Radio Communications 387</td>
<td>2</td>
</tr>
<tr>
<td>Meteorology and Navigation 336</td>
<td>2</td>
</tr>
<tr>
<td>Carburetion and Lubrication 261</td>
<td>2</td>
</tr>
<tr>
<td>Engine Overhaul 253</td>
<td>2</td>
</tr>
<tr>
<td>Ignition and Accessories 255</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>7</td>
</tr>
</tbody>
</table>

Total: 32 semester hours

---

# Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel Administration 336</td>
<td>3</td>
</tr>
<tr>
<td>Business Administration 321</td>
<td>3</td>
</tr>
<tr>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>Airport Selection and Layout 351</td>
<td>2</td>
</tr>
<tr>
<td>Air Traffic and Cargo 352</td>
<td>2</td>
</tr>
<tr>
<td>Airport Management 353</td>
<td>2</td>
</tr>
<tr>
<td>Air Transportation Economics 356</td>
<td>2</td>
</tr>
<tr>
<td>Control Tower Operation 357</td>
<td>2</td>
</tr>
<tr>
<td>Engine Operation 255</td>
<td>2</td>
</tr>
<tr>
<td>Link Operation 355</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>9</td>
</tr>
</tbody>
</table>

Total: 32 semester hours

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**Note.**—Minimum of 128 semester hours. Major of at least 40 semester hours in aviation. Two minors of 15 semester hours each in any two of three fields, economics, psychology, and business administration. At least 12 semester hours from each of groups I, II, III with a total of 60 semester hours in these groups, and at least 60 semester hours in groups IV, V, VI, and VII. Group requirements must be met.
TRADE AND INDUSTRIAL EDUCATION

AIR CONDITIONING AND REFRIGERATION (Two Years)
This curriculum offers basic training in all the elements governing conditioning of air, the theory and function of refrigeration, basic physical laws involved, and installation techniques. The work prepares specifically for the fields of installation and servicing.

AIRCRAFT MECHANICS CURRICULUM (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 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. Flight training can be included for those actively interested as flight instruction is to be made available at nominal cost.

MACHINE SHOP CURRICULUM (Two Years)
This two-year curriculum is offered to students who wish to enter the machinist's trade. The curriculum consists of a number of unit courses which are based upon the training needs of machine tool operators and tradesmen. With this arrangement, the special training needs of each individual can be met. The machinist elects machine shop and related subjects courses to complete two years of training as a machinist.

RADIO CURRICULUM (Two Years)
Basic training for the radio service mechanic, with related subjects that lead to Federal Communications Commission operators' permits and examinations, and knowledge and skill necessary to service and operate all forms of radio and electronics equipment.

SHEETMETAL CURRICULUM (One Year)
The curriculum covers most phases of sheet metal layout and construction of small production parts, blowpipe fabrication, and cabinet sheet metal fabrication accompanied by a comprehensive course in sheet metal drafting.

TOOL AND DIE MAKING CURRICULUM (One Year)
This course leads to the development of superior skills in the precision operation of machine tools. Special tools, jigs, fixtures and dies to blank, bend, form, or mould duplicate parts, designed, fabricated, and tested on production runs in the machine shop. The two-year machine shop curriculum or its equivalent is a prerequisite.
TRADE DRAFTING CURRICULUM (One Year)

Practical work assignments are given at the start, involving sketching of machine parts. Blueprints are examined and explained to acquaint the student rapidly with the conventions and symbols used in machine drafting. The machinery handbook is used for reference to familiarize the student with materials, specifications and tolerances, limits and standards common to production work. Detail design from assembly sketches of small machines, giving a consideration of production costs in overhead, labor, and materials.

TRANSPORTATION MAINTENANCE CURRICULUM (One Year)

Basic training for automobile service men involving theory and practices in automotive service and maintenance. Includes opportunity for specialization in the different service areas, as engine tune-up, brakes, metal finishing, etc.

WELDING CURRICULUM (One Year)

A combination course to train gas welding operators and arc welding operators leads to qualifying tests for certified welders.

COOPERATIVE PROGRAM IN TRADE AND INDUSTRIAL EDUCATION (Two Years)

For those students interested in some trade and industrial education field, for which the college does not have the necessary laboratory or shop facilities, a two-year curriculum is provided. The plan includes a job in some mechanical or industrial establishment in which there is a learning situation. The student is permitted to work part of the day on the job and to go to the college the remainder of the day, where he receives instruction in academic and technological work related to the job. Each student works on the job and his school instruction is correlated through the services of a coordinator.
STATE ELEMENTARY PROVISIONAL CERTIFICATE

Supplementary Details of Curriculum Requirements for Art, Librarianship, Music, and Physical Education

ART

B.S. Degree

State Elementary Provisional Certificate

Group I. Language and/or Literature ........................................... 12 semester hours
Rhetoric (in addition) .......................................................... 6 semester hours

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

Group III. Social Science .............................................................. 12 semester hours
Two hours must be in some field of American government.

Group IV. Education .................................................................... 24 semester hours
Human Growth and Development, 251 .................................... 3 semester hours
Psychology of Reading, 212 ....................................................... 3 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

For special methods courses, see the requirements of the Department.

Group V. Fine Arts ........................................................................ 6 semester hours
A minor in art consists of: Art Structure 106, Elementary Design 105, Art
Appreciation 113A, B or History of Art 213A, B, and art electives to complete
15 semester hours of credit.

A major in art consists of:
Elementary Design 105 ............................................................. 3 semester hours
Art Structure 106 ....................................................................... 3 semester hours
Industrial Art 110 ...................................................................... 2 semester hours
Figure Drawing 205 ................................................................. 3 semester hours
Art Composition 208 ................................................................. 3 semester hours
Commercial Art 214 ................................................................. 3 semester hours
History of Art 213A ................................................................. 3 semester hours
History of Art 213B ................................................................. 3 semester hours
Demonstration Drawing 306 ...................................................... 2 semester hours

Art Observation 340 and Supervision 341 are offered as required education
courses for art majors.

Group VI. Practical Arts
No minimum requirement in this curriculum.

Group VII. Physical Education

For women:
Ten class hours are required, including:
Physical Education 100, and
Physical Education 233, 330, or 331, and
One individual sport.

For men:
Eighteen class hours are required, including:
Physical Education 103A, 103B,
208A, 208B, 303A, and 303B, during the first
six consecutive semesters.

Miscellaneous:
Library Methods is required of all students. All work should be planned
so that a student will have one major and two minors, or four minors. All
majors and minors must be planned with the approval of the departmental
advisers concerned.
LIBRARIANSHIP CURRICULUM
B.S. Degree with a major in Librarianship
State Elementary or Secondary Provisional Certificate
(For School Librarians)

First Year

Rhetoric 106A, B ........................................ 6 semester hours
General Biology 100A, B
or
General Chemistry 100A, B ................................ 8 semester hours
History ........................................ 6 semester hours
Modern Language ........................................ 8 semester hours
Electives ........................................ 2 semester hours
  Library Methods
  Physical Education
  (Suggested electives, Fundamentals of Speech, Music or Art Appreciation.)

Second Year

General Psychology 200 .................................... 3 semester hours
Sociology 241 ........................................ 3 semester hours
Human Growth and Development 251 .................... 3 semester hours
State and Local Government 231 ....................... 3 semester hours
History ........................................ 3 semester hours
Psychology of Reading 212 ................................ 3 semester hours
English Electives ........................................ 6 semester hours
Electives ........................................ 6 semester hours
  (Literature for Children 203 recommended)
  (Students may begin their major during this year with Reading Interest of Children 202)

It is strongly recommended that students continue a second year of their modern language and some of the above courses may then be postponed to third year.

Physical Education

Third Year

Reading Interests of Children 202 ....................... 3 semester hours
or
Reading Interests of Youth 302 .......................... 3 semester hours
Selection of Reading Materials 303 .................... 3 semester hours
Organization of Library Materials 360 .................. 2 semester hours
Reference Service 311 .................................. 3 semester hours
Cataloging and Classification 370 ....................... 3 semester hours
Introduction to Directed Teaching 351 ................. 3 semester hours
Electives—English ....................................... 6 semester hours
  History or Economics ................................ 3-6 semester hours
Electives ........................................ 8 semester hours

Fourth Year

First Semester

Directed Teaching, Laboratory in Education and General Educational Problems 370A, B, C ................. 15 semester hours
  Teaching in minor subject and supervised practice in school library.

Second Semester

Library in the Modern Community 362 .................. 2 semester hours
Administration of School Libraries 361 ............... 2 semester hours
Curriculum Enrichment 305 ................................ 3 semester hours
Electives ........................................ 8 semester hours

Note.—For the County Librarianship Curriculum see page 32.
**MUSIC**

**B.S. Degree**

**State Elementary Provisional Certificate**

<table>
<thead>
<tr>
<th>Group I. Language and/or Literature</th>
<th>12 semester hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric (in addition)</td>
<td>6 semester hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group II. Science</th>
<th>12 semester hours</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Group III. Social Science</th>
<th>12 semester hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two hours must be in some field of American government.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group IV. Education</th>
<th>24 semester hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Growth and Development, 251</td>
<td>3 semester hours</td>
</tr>
<tr>
<td>Psychology of Reading, 212</td>
<td>3 semester hours</td>
</tr>
<tr>
<td>Introduction to Directed Teaching, 351</td>
<td>3 semester hours</td>
</tr>
<tr>
<td>Directed Teaching, Laboratory in Education, and General Educational Problems 370A, B, C</td>
<td>15 semester hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group V. Fine Arts</th>
<th>(Minimum) 6 semester hours</th>
</tr>
</thead>
</table>

The Department of Music offers courses designed to satisfy the needs and interests of the following groups:

1. Students seeking certification as supervisors of public school music (general, vocal, or instrumental).
2. Students majoring or minoring in some field of music, either theoretical or applied.
3. Students majoring in elementary or secondary education who desire some training in music to aid them in their work.
4. Any student in the college who wishes to broaden his background, either by means of music classes, study of applied music, or participation in a music ensemble.

The Department of Music offers courses leading to the Bachelor of Music, Bachelor of Science, and Bachelor of Arts degrees. The Bachelor of Arts and the Bachelor of Science degrees are defined on pages 90-91 of the yearbook both as to purposes and requirements. The Bachelor of Music degree is different in that it is very highly professional in its requirement aims and permits the student to do much more of his work in the field of music. It is strongly recommended that students who wish to major in music aim for the Bachelor of Music degree. All candidates for the Bachelor of Music degree are required to study their applied music performance field, e.g., piano, voice, violin, etc., during their full four-year course. Music majors working toward the Bachelor of Arts or the Bachelor of Science degree and offering a group major in music are advised to complete 20 semester hours in a single field of applied music. The Bachelor of Music degree requires a minimum of 128 semester hours of credit for graduation. All students who wish to major in music will be given a placement examination in theory and applied music at the time of their original registration. Students who plan to major in Composition should present evidence of their ability to the Department of Music, and will be accepted as Composition majors only upon the recommendation of the theory staff.
BACHELOR OF SCIENCE (and Teaching Certificate) MUSIC MAJOR

Those students who want a music major with teaching certificate and two non-music minors should work for the Bachelor of Science degree. In addition to the general and education requirements listed on page 51 the candidate for the above degree must complete the following music requirements:

- **Applied Music (Major performance field)**: 12 semester hours
- **Music 106A, B**: 6 semester hours
- **Music 205A, B**: 4 semester hours
- **Music 207A, B**: 6 semester hours
- **Music 208A, B or Music 301A, B**: 6 semester hours
- **Music Ensemble**: 4 semester hours

BACHELOR OF ARTS MUSIC MAJOR

Western Michigan College of Education will accept a group major in music toward the Bachelor of Arts degree. The two minors must be in non-music subjects. Courses leading to a major in Public School Music are of a strictly professional character; therefore, a major in Public School Music is not granted with the Bachelor of Arts degree. The following music requirements must be satisfied to offer a major in music toward the Bachelor of Arts degree:

- **Applied Music (Major performance field)**: 20 semester hours
- **Music 106A, B**: 6 semester hours
- **Music 307A, B**: 6 semester hours
- **Music Ensemble**: 4 semester hours

The balance of the college work must be selected from non-music subjects. A total of 126 semester hours is required for graduation with the Bachelor of Arts degree with a music major.

MUSIC MINORS

Minors in music must complete Freshman Theory 106A, B; Advanced Sight-Singing and Ear-Training 205A, B; Elementary School Methods and Materials 208A, B or Junior and Senior High School Methods and Materials 301A, B.

Most positions for teachers of music involve part-time teaching of some subject outside the field of music. Therefore, in order to be well prepared to teach a second subject, the student should plan to remain in school at least nine semesters.
# MUSIC CURRICULUM

B.M. Degree with a major in Public School Music

State Elementary or Secondary Provisional Certificate

(For Instrumental or Vocal Supervisor)

## 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>Major Performance</td>
<td>4</td>
</tr>
<tr>
<td>English Diction and Song Literature 122A, B</td>
<td>0</td>
</tr>
<tr>
<td>Freshman Theory 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Music Appreciation 107A, B</td>
<td>4</td>
</tr>
<tr>
<td>Elementary Acoustics 110</td>
<td>2</td>
</tr>
<tr>
<td>String Class 118A, B</td>
<td>2</td>
</tr>
<tr>
<td>Elective (non-music)</td>
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</table>

### Library Methods

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical education or Band</td>
<td></td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance</td>
<td>4</td>
</tr>
<tr>
<td>Italian Diction and Song Literature 222A, B</td>
<td>0</td>
</tr>
<tr>
<td>Advanced Sight-Singing and Ear-Training 205A, B</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Harmony 206A, B</td>
<td>6</td>
</tr>
<tr>
<td>Elementary School Methods and Materials 208A, B</td>
<td>6</td>
</tr>
<tr>
<td>Woodwind Class 219A, B</td>
<td>2</td>
</tr>
<tr>
<td>Human Growth and Development 251</td>
<td>3</td>
</tr>
<tr>
<td>Elective (non-music)</td>
<td>7</td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance</td>
<td>4</td>
</tr>
<tr>
<td>Major Performance Literature 323*</td>
<td>0</td>
</tr>
<tr>
<td>French Diction and Song Literature 322A, B</td>
<td>0</td>
</tr>
<tr>
<td>Junior and Senior High School Methods and Materials 301A, B</td>
<td>6</td>
</tr>
<tr>
<td>Style and Structure 310A*</td>
<td>3</td>
</tr>
<tr>
<td>Contemporary Music 310B*</td>
<td>3</td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>German Diction and Song Literature 324A, B</td>
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<tr>
<td>History of Music 357A, B</td>
<td>6</td>
</tr>
<tr>
<td>Integrated Professional Education 370A, B, C</td>
<td>15</td>
</tr>
<tr>
<td>Elective (non-music)</td>
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</tbody>
</table>

### Note.

Courses not required for students who will become Vocal Supervisors.
### MUSIC CURRICULUM

B.M. Degree with a major in Public School Music  
State Elementary or Secondary Provisional Certificate  
(For General Supervisor)

#### 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>Major Performance*</td>
<td>4</td>
</tr>
<tr>
<td>Freshman Theory 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Music Appreciation 107A, B</td>
<td>4</td>
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<tr>
<td>Elementary Acoustics 110</td>
<td>2</td>
</tr>
<tr>
<td>String Class 118A, B</td>
<td>2</td>
</tr>
<tr>
<td>English Diction and Song Literature 122A, B**</td>
<td>0</td>
</tr>
<tr>
<td>Elective (non-music)***</td>
<td>8</td>
</tr>
<tr>
<td>Library Methods</td>
<td></td>
</tr>
<tr>
<td>Physical education or Band</td>
<td></td>
</tr>
</tbody>
</table>

#### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>Advanced Sight-Singing and Ear-Training 205A, B</td>
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<tr>
<td>Elementary School Methods and Materials 208A, B</td>
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</tr>
<tr>
<td>Woodwind Class 219A, B</td>
<td>2</td>
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<tr>
<td>Italian Diction and Song Literature 222A, B**</td>
<td>0</td>
</tr>
<tr>
<td>Human Growth and Development 251</td>
<td>3</td>
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#### Third Year

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<tbody>
<tr>
<td>Major. Performance</td>
<td>4</td>
</tr>
<tr>
<td>Major Performance Literature 323</td>
<td>0</td>
</tr>
<tr>
<td>French Diction and Song Literature 322A, B**</td>
<td>0</td>
</tr>
<tr>
<td>Junior and Senior High School Methods and Materials 301A, B</td>
<td>6</td>
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<tr>
<td>Style and Structure 310A</td>
<td>3</td>
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<tr>
<td>Instrumental Conducting 311A</td>
<td>1</td>
</tr>
<tr>
<td>Choral Conducting 311B</td>
<td>1</td>
</tr>
<tr>
<td>Brass Class 320A, B</td>
<td>2</td>
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<tr>
<td>Percussion Class 321</td>
<td>1</td>
</tr>
<tr>
<td>Introduction to Directed Teaching 351</td>
<td>3</td>
</tr>
<tr>
<td>American National Government 230</td>
<td>3</td>
</tr>
<tr>
<td>American State and Local Government 231</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Survey of American Government 234</td>
<td>2</td>
</tr>
<tr>
<td>Elective (non-music)</td>
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</tbody>
</table>

#### Fourth Year

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<tr>
<td>German Diction and Song Literature 324A, B**</td>
<td>0</td>
</tr>
<tr>
<td>History of Music 357A, B</td>
<td>6</td>
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<tr>
<td>Methods in Major Performance Medium</td>
<td>3</td>
</tr>
<tr>
<td>Integrated Professional Education 370A, B, C</td>
<td>15</td>
</tr>
<tr>
<td>Elective (non-music)</td>
<td>7</td>
</tr>
</tbody>
</table>

Note.—1. General supervisors are required to study voice two years and a single instrument two years.  
2. **The student is required to enroll for this course only while his performance medium is voice.  
3. ***The non-music electives should be used to complete the non-music minor.
UNDERGRADUATE CURRICULA

Group VI. Practical Arts
No minimum requirement in this curriculum.

Group VII. Physical Education

For women:
Ten class hours are required, including:
- Physical Education 100, and Physical Education 233, 330, or 331, and
- One individual sport.

For men:
Eighteen hours are required, including:
- Physical Education 103A, 103B, 203A, 203B, 303A, and 303B, during the
  first six consecutive semesters.

Miscellaneous:
Library Methods is required of all students. All work should be planned
so that a student will have one major and two minors, or four minors. All
majors and minors must be planned with the approval of the departmental
advisers concerned.

PHYSICAL EDUCATION
B.S. Degree
State Elementary Provisional Certificate

Group I. Language and/or Literature .......................... 12 semester hours
Rhetoric (in addition) ........................................ 6 semester hours

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

Group III. Social Science ...................................... 12 semester hours
Two hours must be in some field of American government.

Group IV. Education ............................................
- Human Growth and Development, 251 ....................... 3 semester hours
- Psychology of Reading, 212 ................................. 3 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
For special methods courses, see the requirements of the Department.

Group V. Fine Arts ............................................. (Minimum) 6 semester hours

Group VI. Practical Arts
No minimum requirement in this curriculum.

Group VII—Physical Education

For women:
Students who plan to major or minor in Physical Education should arrange
their courses only by and with the advice and consent of the Departmental
adviser.

PHYSICAL EDUCATION MAJOR (for women)
Requirements in science and in physical education for students who wish to
make physical education their major field are:

Group II. Science
- General Biology 100A, B ..................................... 8 semester hours
- Hygiene 112 .................................................. 2 semester hours
- Anatomy 211A ............................................... 4 semester hours
- Physiology 211B ............................................. 4 semester hours
Group VII. Physical Education and Health

Physical Education in Theory and Practice 151A, B .................. 4 semester hours
Camping and Outdoor Education 175 .................................. 2 semester hours
Physical Education and Practice 251A, B ...................... 4 semester hours
Elementary School Physical Education 270A, B ............. 4 semester hours
First Aid 271 .......................................................... 1 semester hour
Applied Anatomy 273 ............................................... 2 semester hours
Secondary School Physical Education 274A, B ............. 3 semester hours
History and Principles of Physical Education 275 .......... 3 semester hours
Community Recreation, Scouting, and Camp Fire 276 .... 2 semester hours
Health Education 285 ............................................. 2 semester hours
Methods in Physical Education 344 ......................... 2 semester hours
Administration and Organization 345 ....................... 2 semester hours
Physical Education Theory and Practice 351A, B .. 2 semester hours
Physical Education Theory and Practice 361A, B .... 2 semester hours
Individual Gymnastics 373 ......................................... 3 semester hours

TWENTY-FOUR HOUR MAJOR (for women)

(This is not to be confused with the requirements for students who are specializing in this field.)

Physical Education Theory and Practice .................... 12 semester hours

(The student will elect the remaining 12 hours from the following group: Students who expect to teach are required to take either Elementary School Physical Education 270A, B or Secondary School Physical Education 274A, B.)

Camping and Outdoor Education 175 .......................... 2 semester hours
Elementary School Physical Education 270A, B ............ 4 semester hours
First Aid 271 ......................................................... 1 or 2 semester hours
Secondary School Physical Education 274A, B ............ 3 semester hours
History and Principles of Physical Education 275 ....... 3 semester hours
Community Recreation, Scouting, and Camp Fire 276 .... 2 semester hours
Health Education 285 ............................................. 2 semester hours

PHYSICAL EDUCATION MINOR (for women)

Required:
Physical Education Theory and Practice ...................... 6 semester hours
(Element is the equivalent of 18 class hours of physical education practice.)
Elementary School Physical Education 270A, B ............ 4 semester hours
or
Secondary School Physical Education 274A, B ............ 3 semester hours

Elective:
The remaining five or six hours may be selected from the following courses:

Camping and Outdoor Education 175 ......................... 2 semester hours
First Aid 271 .......................................................... 1 or 2 semester hours
History and Principles of Physical Education 275 .... .... 3 semester hours
Community Recreation, Scouting, and Camp Fire 276 .... 2 semester hours
Health Education 285 ............................................. 2 semester hours

It is advisable for any student who wishes to be recommended by the department for the teaching of physical education to take as electives Methods in Physical Education 344, 2 semester hours, and Directed Teaching in Physical Education, 4 semester hours. These courses may not be included in the 24 semester hours required for the major nor in the 15 semester hours required for the minor.

Miscellaneous:

Library Methods is required of all students. All work should be planned so that a student will have one major and two minors, or four minors. All majors and minors must be planned with the approval of the departmental advisers concerned.
STATE SECONDARY PROVISIONAL CERTIFICATE

Supplementary Details of Curriculum Requirements in Art, Business Education, Home Economics, Industrial Arts, Music, and Physical Education.

Special Note:—
Women in the physical education curriculum may be awarded the State Secondary Provisional Certificate with permission to teach also in grades kindergarten-to-six, inclusive. Similarly, persons in art and music may be given the same privilege.

ART

B.S. Degree.

State Secondary Provisional Certificate

Group I. Language and/or Literature ........................................ 12 semester hours
Rhetoric (in addition) ..................................................... 6 semester hours

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

Group III. Social Science .................................................... 12 semester hours
Two hours must be in some field of American Government.

Group IV. Education
Human Growth and Development ............................................. 3 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

For Art majors, special methods courses must be taken in addition to the above.

Group V. Fine Arts

A minor in Art consists of at least 15 semester hours of work approved by the Department of Art; a major consists of 25 hours approved by the Department.

Any one of the following groups of courses constitutes a year's sequence in art:

(a) Art Structure 106 and Industrial Arts 110
(b) Art Structure 106 and Illustrative Handwork 107
(c) Art Structure 106 and Figure Drawing 205
(d) Art Structure 106 and Demonstration Drawing 306
(e) Art Structure 106 and Lettering and Poster Making 108
(f) History of Art 213A and History of Art 213B
(g) Art Appreciation 113A and Art Appreciation 113B

A minor in art consists of: Art Structure 106, Elementary Design 105, Art Appreciation 113A, B or History of Art 213A, B, and art electives to complete 15 semester hours of credit.
A major in art consists of:

Elementary Design 105 ........................................ 3 semester hours
Art Structure 106 ........................................ 3 semester hours
Industrial Art 110 ........................................ 2 semester hours
Figure Drawing 205 ........................................ 3 semester hours
Art Composition 208 ........................................ 3 semester hours
Commercial Art 214 ........................................ 3 semester hours
History of Art 213A ........................................ 3 semester hours
History of Art 213B ........................................ 3 semester hours
Demonstration Drawing 306 ................................ 2 semester hours

Art Observation 340 and Supervision 341 are offered as required education courses for art majors.

Group VI. Practical Arts
No minimum requirement.

Group VII. Physical Education

For Women:
Ten class hours are required, including:
- Physical Education 100, and Physical Education 332, and One individual sport.

For men:
Eighteen class hours are required, including:
- Physical Education 103A, 103B, 203A, 203B, 303A, and 303B, during the first six consecutive semesters.

Miscellaneous:
Library Methods is required of all students. All work should be planned so that a student will have one major and two minors. All majors and minors must be planned with the approval of the departmental advisers concerned.

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BUSINESS EDUCATION

B.S. Degree

State Secondary Provisional Certificate

Group I. Language and/or Literature ................................ 12 semester hours
Rhetoric (in addition) ......................................... 6 semester hours

Group II. Science ............................................. 12 semester hours
Business Math. 120 must be included here.

Group III. Social Science ...................................... 12 semester hours
Two hours must be in some field of American government.
All students majoring in Business Education are required to obtain a minor in Economics.

Group IV. Education
Human Growth and Development ................................ 3 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
Teaching of Business Subjects 300T .......................... 2 semester hours

Group V. Fine Arts
No minimum requirements.
Group VI. Practical Arts

I. Major Sequences in Business Education for Secondary Curriculum students desiring teaching certificate.

A. For students preparing to teach secretarial and related business courses
   *Secretarial Science 130A, B
   Secretarial Practice 230A
   Coordinated Business Experience 200A
   Accounting 210A, B or 211A, B
   Business Correspondence and Report Writing 232
   Filing Principles and Techniques 236

B. For students preparing to teach bookkeeping and related business courses
   Accounting 210A, B
   Accounting 310A, B or Accounting 311 and 312
   Business Law 320A, B
   **Secretarial Practice 230A, B
   Business Correspondence and Report Writing 232

*Shorthand 100A, B and Typewriting 101A, B, or their high school equivalents, are prerequisites to Secretarial Science 130A and are not included as part of the minimum requirements for a major or minor.

**See course prerequisite.

C. For students preparing to teach retailing courses only
   Retail Records 111
   Fundamentals of Retailing 140A
   Retail Salesmanship 150
   Retail Publicity 240
   Retail Credit & Collections 241
   Store Organization 251A, B
   Accounting 210A, B

All students majoring in Business Education are required to obtain a minor in Economics.

All students desiring to do directed teaching in Business Education are required to take Teaching of Business Subjects 346.

Business Mathematics 120 is required as a part of Group II requirements.

Students who plan to teach and desire a minor in the field of business education should take the following courses:

   Secretarial Science 130A
   Coordinated Business Experience 200A
   Accounting 210A, B
   Business Correspondence and Report Writing 232

Group VII. Physical Education

For women:
Ten class hours are required, including:
   Physical Education 100, and Physical Education 332, and One individual sport.

For men:
Eighteen hours are required, including:
   Physical Education 103A, 103B, 203A, 203B, 303A, and 303B, during the first six consecutive semesters.

Miscellaneous:
Library Methods is required of all students. All work should be planned so that a student will have one major and two minors, or four minors. All majors and minors must be planned with the approval of the departmental advisers concerned.
HOME ECONOMICS

B.S. Degree

State Secondary Provisional Certificate

Group I. Language and/or Literature ........................................ 12 semester hours
   Rhetoric (in addition) .................................................. 6 semester hours

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

Group III. Social Science ....................................................... 12 semester hours
   Two hours must be in some field of American government.

Group IV. Education
   Human Growth and Development .......................................... 3 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

Group VI. Practical Arts

Major:

The major consists of twenty-four or more semester hours in home economics. To be eligible for the advanced foods courses it will be necessary for the student to have had Chemistry 105A, B. To be eligible for the advanced courses in clothing it will be necessary for the student to have taken Elementary design 105, or equivalent, and Costume Design 209. A student who has a major in home economics and meets the requirements of the Department of Education for a certificate may teach home economics only in the non-vocational home-economics departments of Michigan.

Minor:

The minor consists of fifteen semester hours in home economics. It is planned for students of other curricula who wish to take home economics for personal or homemaking purposes.

Vocational Certificate:

Only persons who meet the requirements for a vocational certificate can teach in the vocational home-economics departments in Michigan. The required courses are listed below:


Social Science—At least one course each in economics and sociology.

Fine Arts—Elementary Design 105, Costume Design 209, Home Furnishings 221.

Home Economics—Problems in Home Living 100, Clothing Clinic and Textiles 103, Foods 111, Clothing 205, Nutrition 211, Home Nursing and Family Health 223, Family Clothing 305, Advanced Foods 311, Quantity Food Management 312, Home Management 322, Home Management Practice 324, Marriage and Family Relationships 325, and elective, two or more semester hours.

Education—Human Growth and Development 251, and other courses in the Department of Education to fulfill the requirement for a secondary provisional certificate.
UNDERGRADUATE CURRICULA

Dietetics:
The Department of Home Economics is working toward a four-year course for dietitians. If a student wishes to enter the department it is suggested that she take two years of chemistry (one year of inorganic, one semester of organic); one semester of biochemistry; one semester each of biology, bacteriology, physiology, and general psychology; and courses in sociology, besides courses in foods and nutrition.

VII. Physical Education

For women:
Ten class hours are required, including:
- Physical Education 100, and Physical Education 332, and one individual sport.

For men:
Eighteen hours are required, including:
- Physical Education 103A, 103B, 203A, 203B, 303A, and 303B, during the first six consecutive semesters.

Miscellaneous:
Library Methods is required of all students. All work should be planned so that a student will have one major and two minors. All majors and minors must be planned with the approval of the departmental advisers concerned.

INDUSTRIAL ARTS

B.S. Degree
State Elementary Provisional Certificate

Group I. Language and/or Literature ........................................... 12 semester hours
Rhetoric (in addition) .............................................................. 6 semester hours

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

Group III. Social Science .......................................................... 12 semester hours
Two hours must be in some field of American government.

Group IV. Education
- Human Growth and Development ............................................. 3 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
No minimum requirements.

Group VI Practical Arts

Suggested Course Sequences

<table>
<thead>
<tr>
<th>WOOD</th>
<th>METAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Woodshop 100</td>
<td>General Metal 130A</td>
</tr>
<tr>
<td>Advanced Hand Woodwork 106</td>
<td>General Metal 130B</td>
</tr>
<tr>
<td>General Shop 202</td>
<td>Machine Shop 234A</td>
</tr>
<tr>
<td>Arts and Crafts Shop 203A</td>
<td>Machine Shop 234B</td>
</tr>
<tr>
<td>Arts and Crafts Shop 203B</td>
<td>General Shop 202</td>
</tr>
<tr>
<td>General Woodshop 205A</td>
<td>Sheet Metal 182A</td>
</tr>
<tr>
<td>General Woodshop 205B</td>
<td>Sheet Metal 182B</td>
</tr>
<tr>
<td>Finishing 207</td>
<td>Welding 180</td>
</tr>
<tr>
<td>Electrical Construction 212</td>
<td></td>
</tr>
</tbody>
</table>
The Industrial Arts Department offers shop and professional courses for the training of teachers, supervisors, and administrators of industrial arts in the high school.

Technical courses in industrial arts include the fields of metalwork, graphic art, drawing, woodwork, electricity, aviation, arts and crafts, and general shop.

The student who plans to qualify as an industrial arts teacher for the general shop as well as the unit shop should plan to take at least 35 hours in industrial arts.

All industrial arts students are required to take at least one course in each of the following: wood, metal, drawing, printing, electricity, and Introduction to Industrial Arts during their freshman and the first half of their sophomore year. No one will be exempt from fulfilling these requirements before taking advanced work in industrial arts. The student must also take two professional courses in industrial arts during his junior and senior year.

While the Industrial Arts Department is primarily established to prepare industrial arts teachers, many courses are offered that meet the needs of other departments in the College. The Department offers courses for pre-professional groups, occupational therapy, rural education, and air transportation.

Laboratory Fee: All shop and laboratory courses in industrial arts carry a $3.00 per semester laboratory fee.

VII. Physical Education

For women:
Ten class hours are required, including:
- Physical Education 100, and Physical Education 332, and one individual sport.

For men:
Eighteen class hours are required, including:
- Physical Education 103A, 103B, 203A, 203B, 303A, 303B, during the first six consecutive semesters.

Miscellaneous:
Library Methods is required of all students. All work should be planned so that a student will have one major and two minors. All majors and minors must be planned with the approval of the departmental adviser concerned.
MUSIC

B.S. Degree

State Secondary Provisional Certificate

Group I. Language and/or Literature .................................. 12 semester hours
Rhetoric (in addition) ..................................................... 6 semester hours

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

Group III. Social Science .................................................. 12 semester hours
Two hours must be in some field of American government.

Group IV. Education .......................................................... 3 semester hours
Human Growth and Development ............................................ 3 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
The Department of Music offers courses designed to satisfy the needs and
interests of the following groups:
1. Students seeking certification as supervisors of public school music
   (general, vocal, or instrumental).
2. Students majoring or minoring in some field of music, either theoretical
   or applied.
3. Students majoring in elementary or secondary education who desire
   some training in music to aid them in their work.
4. Any student in the college who wishes to broaden his background, either
   by means of music classes, study of applied music, or participation in a
   music ensemble.

The Department of Music offers courses leading to the Bachelor of Music,
Bachelor of Science, and Bachelor of Arts degrees. The Bachelor of Arts
and the Bachelor of Science degrees are defined in the 1947-1948 yearbook
both as to purposes and requirements. The Bachelor of Music degree is
different in that it is very highly professional in its requirement aims and
permits the student to do much more of his work in the field of music. It is
strongly recommended that students who wish to major in music aim for the
Bachelor of Music degree. All candidates for the Bachelor of Music degree are
required to study their applied music performance field, e.g., piano, voice, vio-
lin, etc., during their full four-year course. Music majors working toward the
Bachelor of Arts or the Bachelor of Science degree and offering a group major
in music are advised to complete 20 semester hours in a single field of applied
music. The Bachelor of Music degree requires a minimum of 128 semester
hours of credit for graduation. All students who wish to major in music will
be given a placement examination in theory and applied music at the time of
their original registration. Students who plan to major in Composition should
present evidence of their ability to the Department of Music, and will be ac-
cepted as Composition majors only upon the recommendation of the theory
staff.
BACHELOR OF SCIENCE (and Teaching Certificate) MUSIC MAJOR

Those students who want a music major with teaching certificate and two non-music minors should work for the Bachelor of Science degree. In addition to the general and educational requirements listed on page 13 the candidate for the above degree must complete the following music requirements:

- Applied Music (Major performance field) ..................... 12 semester hours
- Music 106A, B ........................................... 6 semester hours
- Music 205A, B ............................................. 4 semester hours
- Music 207A, B ............................................. 6 semester hours
- Music 208A, B ............................................. 6 semester hours
  or
- Music 301A, B ............................................. 6 semester hours
- Music Ensemble .............................................. 4 semester hours

BACHELOR OF ARTS MUSIC MAJOR

Western Michigan College of Education will accept a group major in music toward the Bachelor of Arts degree. The two minors must be in non-music subjects. Courses leading to a major in Public School Music are of a strictly professional character; therefore, a major in Public School Music is not granted with the Bachelor of Arts degree. The following music requirements must be satisfied to offer a major in music toward the Bachelor of Arts degree:

- Applied Music (Major performance field) ..................... 20 semester hours
- Music 106A, B ........................................... 6 semester hours
- Music 357A, B ............................................. 6 semester hours
- Music Ensemble .............................................. 4 semester hours

The balance of the college work must be selected from non-music subjects. A total of 126 semester hours is required for graduation with the Bachelor of Arts degree with a music major.

MUSIC MINORS

Minors in music must complete Freshman Theory 106A, B; Advanced Sight-Singing and Ear-Training 205A, B; Elementary School Methods and Materials 208A, B or Junior and Senior High School Methods and Materials 301A, B.

Most positions for teachers of music involve part-time teaching of some subject outside the field of music. Therefore, in order to be well prepared to teach a second subject, the student should plan to remain in school at least nine semesters.

Group VI. Practical Arts

No minimum requirements are made.

VII. Physical Education

For women:
Ten class hours are required, including:
  Physical Education 100, and Physical Education 332, and One individual sport.

For men:
Eighteen class hours are required, including:
  Physical Education 103A, 103B, 203A, 203B, 303A, and 303B, during the first six consecutive semesters.

Miscellaneous:
Library Methods is required of all students. All work should be planned so that a student will have one major and two minors. All majors and minors must be planned with the approval of the departmental advisers concerned.
MUSIC CURRICULUM

B.M. Degree with a major in Public School Music
State Elementary or Secondary Provisional Certificate
(For Instrumental or Vocal Supervisor)

First Year

Rhetoric 106A, B ........................................ 6 semester hours
Major Performance ...................................... 4 semester hours
English Diction and Song Literature 122A, B ....... 0 semester hours
Freshman Theory 106A, B ............................. 6 semester hours
Music Appreciation 107A, B ......................... 4 semester hours
Elementary Acoustics 110 ............................ 2 semester hours
String Class 118A, B .................................. 2 semester hours
Elective (non-music)** ................................. 8 semester hours
Library Methods
Physical Education or Band

Second Year

Major Performance ...................................... 4 semester hours
Italian Diction and Song Literature 222A, B ....... 0 semester hours
Advanced Sight-Singing and Ear-Training 205A, B .... 4 semester hours
Advanced Harmony 206A, B ........................... 6 semester hours
Elementary School Methods and Materials 208A, B .... 6 semester hours
Woodwind Class 219A, B ............................... 3 semester hours
Human Growth and Development 251 ............... 7 semester hours
Elective (non-music) ....................................
Physical education or Band

Third Year

Major Performance ...................................... 4 semester hours
Major Performance Literature 323* ................ 0 semester hours
or
French Diction and Song Literature 322A, B ....... 0 semester hours
Junior and Senior High School Methods and Materials 301A, B .... 6 semester hours
Style and Structure 310A* ......................... 3 semester hours
Contemporary Music Literature 310B* .............. 3 semester hours
or
Music Literature 207B ................................ 3 semester hours
Instrumental Conducting 311A ...................... 1 semester hour
Choral Conducting 311B .............................. 1 semester hour
Brass Class 320A, B ................................ 2 semester hours
Percussion Class 321 ................................ 1 semester hour
Introduction to Directed Teaching 351 ............ 3 semester hours
American National Government 230 ................. 3 semester hours
or
American State and Local Government 231 ....... 3 semester hours
or
Survey of American Government 234 .............. 2 semester hours
Elective (non-music) ...................................

Fourth Year

Major Performance ...................................... 4 semester hours
Major Performance Literature 323* ................ 0 semester hours
or
German Diction and Song Literature 324A, B ....... 0 semester hours
History of Music 357A, B ............................ 6 semester hours
Integrated Professional Education 370A, B, C .... 15 semester hours
Elective (non-music) ...................................

Note.—1. *Courses not required for students who will become Vocal Supervisors.
# MUSIC CURRICULUM

B.M. Degree with a major in Public School Music

State Elementary or Secondary Provisional Certificate

(For General Supervisor)

## First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric 106A, B</td>
<td>6</td>
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<tr>
<td>Major Performance*</td>
<td>4</td>
</tr>
<tr>
<td>Freshman Theory 106A, B</td>
<td>6</td>
</tr>
<tr>
<td>Music Appreciation 107A, B</td>
<td>4</td>
</tr>
<tr>
<td>Elementary Acoustics 110</td>
<td>2</td>
</tr>
<tr>
<td>String Class 118A, B</td>
<td>2</td>
</tr>
<tr>
<td>English Diction and Song Literature 122A, B**</td>
<td>0</td>
</tr>
<tr>
<td>Elective (non-music)**</td>
<td>8</td>
</tr>
<tr>
<td>Library Methods</td>
<td></td>
</tr>
<tr>
<td>Physical education or Band</td>
<td></td>
</tr>
</tbody>
</table>

### Elective (non-music)

- Physics
- English Diction and Song Literature
- Italian Diction and Song Literature
- Human Growth and Development

## Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance</td>
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</tr>
<tr>
<td>Advanced Sight-Singing and Ear-Training 205A, B</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Harmony 206A, B</td>
<td>6</td>
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<tr>
<td>Elementary School Methods and Materials 208A, B</td>
<td>6</td>
</tr>
<tr>
<td>Woodwind Class 219A, B</td>
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</tr>
<tr>
<td>Italian Diction and Song Literature 222A, B**</td>
<td>0</td>
</tr>
<tr>
<td>Human Growth and Development 251</td>
<td>3</td>
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<tr>
<td>Elective (non-music)</td>
<td>7</td>
</tr>
<tr>
<td>Physical education or Band</td>
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</tr>
</tbody>
</table>

### Elective (non-music)

- French Diction and Song Literature
- History of Music 357A, B
- American National Government
- American State and Local Government
- History of Music 357A, B
- Integrated Professional Education
- Elective (non-music)

## Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance Literature 323</td>
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</tr>
<tr>
<td>French Diction and Song Literature 322A, B**</td>
<td>0</td>
</tr>
<tr>
<td>Junior and Senior High School Methods and Materials 301A, B</td>
<td>6</td>
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<tr>
<td>Style and Structure 310A</td>
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<tr>
<td>Instrumental Conducting 311A</td>
<td>1</td>
</tr>
<tr>
<td>Choral Conducting 311B</td>
<td>1</td>
</tr>
<tr>
<td>Brass Class 320A, B</td>
<td>2</td>
</tr>
<tr>
<td>Percussion Class 321</td>
<td>1</td>
</tr>
<tr>
<td>Introduction to Directed Teaching 351</td>
<td>3</td>
</tr>
<tr>
<td>American National Government 230</td>
<td>3</td>
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<tr>
<td>American State and Local Government 231</td>
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<td>Survey of American Government 234</td>
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</tr>
<tr>
<td>Elective (non-music)</td>
<td>11</td>
</tr>
</tbody>
</table>

### Elective (non-music)

- History of Music 357A, B
- American National Government
- History of Music 357A, B
- Elective (non-music)

## Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Performance</td>
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<tr>
<td>Major Performance Literature 323</td>
<td>0</td>
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<tr>
<td>German Diction and Song Literature 324A, B**</td>
<td>0</td>
</tr>
<tr>
<td>History of Music 357A, B</td>
<td>6</td>
</tr>
<tr>
<td>Integrated Professional Education 370A, B, C</td>
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</tr>
<tr>
<td>Elective (non-music)</td>
<td>7</td>
</tr>
</tbody>
</table>

### Elective (non-music)

- History of Music 357A, B
- American National Government
- History of Music 357A, B
- Elective (non-music)

### Note

1. General supervisors are required to study voice two years and a single instrument two years.
2. The student is required to enroll for this course only while his performance medium is voice.
3. The non-music electives should be used to complete the non-music minor.
UNDERGRADUATE CURRICULA

PHYSICAL EDUCATION

B.S. Degree

State Secondary Provisional Certificate

Group I. Language and/or Literature ....................... 12 semester hours
  Rhetoric (in addition) ........................................... 6 semester hours

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

Group III. Social Science ......................................... 12 semester hours
  Two hours must be in some field of American government.

Group IV. Education ............................................... 3 semester hours
  Human Growth and Development ................................. 3 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
  Methods courses must be planned with the requirements
  of the Department in mind.

Group V. Fine Arts
  No minimum requirement in this group in this curriculum.

Group VI. Practical Arts
  No minimum requirement in this group in this curriculum.

Group VII. Physical Education
  A. For men:

  COURSES FOR SPECIALIZING STUDENTS

  Physical Education Major

  Minimum requirements for men who elect physical education as their major
  field are:

  Group I. Language and Literature ............................. 12 semester hours
    Rhetoric (in addition) ........................................... 6 semester hours

  Group II. Science ............................................... 8 semester hours
    General Biology 100A, B ......................................... 8 semester hours
    Hygiene 112 .......................................................... 2 semester hours
    Anatomy 211A .......................................................... 4 semester hours
    Physiology 211B ..................................................... 4 semester hours

  Group III. Social Science ......................................... 12 semester hours

  Group IV. Education ............................................... 20 semester hours

  Group VII. Physical Education
    Required courses for twenty-four hour major:
    General Athletics 105A, B ...................................... 2 semester hours
    Advanced Athletics and Gymnastics 205A, B .................... 2 semester hours
    History and Principles of Physical Education 206 .......... 3 semester hours
    Fundamentals and Technique of Football 208 ................. 2 semester hours
    Fundamentals and Technique of Basketball 209 .............. 2 semester hours
    Fundamentals and Technique of Baseball 210 ................ 2 semester hours
    Fundamentals and Technique of Track and Field 211 ......... 2 semester hours
    Principles and Technique of Gymnastic Teaching 305 ......... 2 semester hours
    First Aid and Athletic Training 306 .......................... 3 semester hours
    Swimming 310 ....................................................... 1 semester hour
    Playground and Community Recreation 320 .................... 3 semester hours
Strongly recommended electives:
- Camping and Scouting 207 ........................................ 3 semester hours
- Physiology of Exercise 307 ...................................... 2 semester hours
- Psychology of Coaching 312 ..................................... 2 semester hours

Recommended electives:
- Kinesiology 308 ..................................................... 2 semester hours
- Tests and Measurements in Physical Education 309 ... 3 semester hours

Organization and Administration of Physical Education 343 is required of those who plan to do directed teaching in physical education.

The remaining semester hours may be selected from the courses regularly offered by the college, subject to degree requirements.

**Physical Education Minor**

Minimum requirements for men who elect physical education as their minor are:
- General Athletics and Elementary Gymnastics 105A .......... 1 semester hour
- Elementary Gymnastics and Outdoor Games 105B ......... 1 semester hour
- Psychology of Coaching 312 ..................................... 2 semester hours
- Fundamentals and Technique of Football 208 ................ 2 semester hours
- Fundamentals and Technique of Basketball 209 .......... 2 semester hours
- Fundamentals and Technique of Baseball 210 ............... 2 semester hours
- Fundamentals and Technique of Track and Field 211 .... 2 semester hours
- Playground and Community Recreation 320 .................. 3 semester hours

**B. For Women:**

The Department of Physical Education for Women aims to provide an interesting and beneficial program of physical activity for each student. Physical fitness of the individual for participation is determined by medical and physical examinations. No student is excused from physical education, but program adjustments are arranged to take care of those with physical handicaps. Appropriate uniforms, obtainable at Western's Campus Store, are required for the various activities. A fee of fifty cents will be charged each semester for the use of the locker. An additional laundry fee is necessary for students enrolled in the swimming classes. This fee is seventy-five cents for classes which meet once or twice a week and one dollar for classes meeting three or four times a week.

Students other than those majoring in physical education may not earn more than three class hours of physical education in one semester. (A class hour is to be interpreted to mean one hour of class work each week for one semester.)

**PHYSICAL EDUCATION MAJOR**

Requirements in science and in physical education for students who wish to make physical education their major field are:

**Group II. Science**
- General Biology 100A, B ....................................... 8 semester hours
- Hygiene 112 ..................................................... 2 semester hours
- Anatomy 211A ................................................... 4 semester hours
- Physiology 211B ................................................ 4 semester hours

**Group VII. Physical Education and Health**
- Physical Education in Theory and Practice 151A, B ...... 4 semester hours
- Camping and Outdoor Education 175 .......................... 2 semester hours
- Physical Education and Practice 251A, B .................... 4 semester hours
- Elementary School Physical Education 270A, B .......... 4 semester hours
- First Aid 271 .................................................... 1 semester hour
- Applied Anatomy 273 .......................................... 2 semester hours
Secondary School Physical Education 274A, B .......... 3 semester hours
History and Principles of Physical Education 275 .......... 3 semester hours
Community Recreation, Scouting, and Camp Fire 276 .......... 2 semester hours
Health Education 285 .......... 2 semester hours
Methods in Physical Education 344 .......... 2 semester hours
Administration and Organization 345 .......... 2 semester hours
Physical Education Theory and Practice 351A, B .......... 2 semester hours
Physical Education Theory and Practice 361A, B .......... 2 semester hours
Individual Gymnastics 373 .......... 3 semester hours

TWENTY-FOUR HOUR MAJOR

(This is not to be confused with the requirements for students who are specializing in this field.)

Physical Education Theory and Practice .......... 12 semester hours
(The student will elect the remaining 12 hours from the following group: Students who expect to teach are required to take either Elementary School Physical Education 270A, B or Secondary School Physical Education 274A, B.)
Camping and Outdoor Education 175 .......... 2 semester hours
Elementary School Physical Education 270A, B .......... 4 semester hours
First Aid 271 .......... 1 or 2 semester hours
Secondary School Physical Education 274A, B .......... 3 semester hours
History and Principles of Physical Education 275 .......... 3 semester hours
Community Recreation, Scouting, and Camp Fire 276 .......... 2 semester hours
Health Education 285 .......... 2 semester hours

PHYSICAL EDUCATION MINOR

Required:
Physical Education Theory and Practice .......... 6 semester hours
(This is the equivalent of 18 class hours of physical education practice.)
Elementary School Physical Education 270A, B .......... 4 semester hours
or
Secondary School Physical Education 274A, B .......... 3 semester hours

Elective:
The remaining five or six hours may be selected from the following courses:
Camping and Outdoor Education 175 .......... 2 semester hours
First Aid 271 .......... 1 or 2 semester hours
History and Principles of Physical Education 275 .......... 3 semester hours
Community Recreation, Scouting, and Camp Fire 276 .......... 2 semester hours
Health Education 285 .......... 2 semester hours

It is advisable for any student who wishes to be recommended by the department for the teaching of physical education to take as electives Methods in Physical Education 344, 2 semester hours, and Directed Teaching in Physical Education, 4 semester hours. These courses may not be included in the 24 semester hours required for the major nor in the 15 semester hours required for the minor.

For women:
Students who plan to major or minor in Physical Education should arrange their program only by and with the advice and consent of the Departmental adviser.

For men:
Majors and minors in Physical Education must be planned only by and with the advice and consent of the Departmental adviser. Prescribed sequences are arranged for both majors and minors.

Miscellaneous:
Library Methods is required of all students. All work should be planned to provide for one major and two minors. All majors and minors must be planned with the approval of the departmental advisers concerned.
1. Administration Building
2. Campus Training School
3. Science Building
4. Library
5. Health and Personnel Building
6. Men's Gymnasium
7. Industrial Arts Building
8. Mechanical Trades Building
9. The "Temporary Building"
10. Vandercook Residence Hall for Men (Y-12 Barracks)
11. Lavina Spindler Residence Hall for Women
12. The Theatre
13. Fine Arts Building (Proposed)
14. Walwood Residence Hall for Women (Y-12 Barracks)
15. Union Building
16. Tennis Courts
17. Cable Cars
18. Women's Physical Education Playground
19. Waldo Stadium
20. Hyames Baseball Field

The English Hall and the Business Education Building are not shown.