

# SCHOOL OF EDUCATION

## SCHOOL OF EDUCATION OFFICE

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179 Whitman Hall

Phone: 906-227-2728

Fax: 906-227-2764

Web Page: [www.nmu.edu/education](http://www.nmu.edu/education)

Associate Dean of Teacher Education and Director: Debra H. Thatcher • [dthatche@nmu.edu](mailto:dthatche@nmu.edu)

Director, Teacher Education Field Experience: Rodney H. Clarken • [rclarken@nmu.edu](mailto:rclarken@nmu.edu)

Director, Teacher Education Student Services: Lynne Gerhardt • [lgerhardt@nmu.edu](mailto:lgerhardt@nmu.edu)

Certification Counselor: Nancy Carter • [ncarter@nmu.edu](mailto:ncarter@nmu.edu)

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## Education at NMU

The School of Education offers professional studies courses leading to the Michigan Professional or Provisional Teaching Certificate at the elementary and secondary levels as well as courses for continuing professional development through the master's degree. Students must be eligible for admission to the School of Education in order to enroll in education courses.

All NMU education programs are accredited by the National Council for the Accreditation of Teacher Education and approved by the Michigan Department of Education.

Northern's School of Education carries primary responsibility for the following:

- A certificate program for paraprofessional instructional aides.
- Curriculum for elementary school teachers.
- Curriculum for teachers of children with cognitive impairment.
- Curriculum for teachers of children with emotional impairment.
- A sequence of professional courses in education for secondary school teachers.

In cooperation with other departments, the school also sponsors graduate programs for teachers and school service personnel leading to the master of arts in education. These programs are described in the *Graduate Studies Bulletin*.

Most education courses at Northern Michigan University include field experience in K-12 classrooms. A number of education courses meet in public school buildings to expand teaching opportunities. Another learning opportunity is an apprenticeship in special education, which provide students with a chance to refine goals and polish skills.

## Student Organizations

- Michigan Student Council for Exceptional Children
- Student Michigan Education Association

## Elementary Education Programs

Satisfactory completion of the program in elementary education qualifies a student for a Michigan Elementary Provisional Certificate, which is valid for teaching kindergarten through grade five and major and minor fields in grades six, seven and eight, and self-contained grades six, seven and eight.

## Special Education Programs

Satisfactory completion of a program for teaching students with cognitive impairments (CI) or students with emotional impairments (EI) qualifies graduates for an Elementary or Secondary Provisional Certificate and an endorsement to teach children in kindergarten through grade twelve in the specialty area as well as elementary classrooms in grades K-5 or middle school and secondary grades 6-12 in major or minor area only.

## Secondary Education Majors

Students who satisfactorily complete a curriculum for secondary teaching qualify for a Michigan Secondary Provisional Certificate, which is valid for teaching grades seven through twelve in majors and minors only. Some programs, however, are kindergarten through grade twelve.

## Paraprofessional Instructional Aide Certification/Certificate

This certification program prepares students as paraprofessional instructional aides to assist classroom teachers in complementing, supplementing and reinforcing the instruction of students in K-12 classrooms. Students who complete additional hours may qualify for a university certificate.

## Post-Degree Teacher Certification

Baccalaureate degree graduates without teaching certification may complete a provisional certification plan of study for teaching at the elementary or secondary level by enrolling in undergraduate courses. If a student has completed courses as an undergraduate that are applicable to a teachable major or minor, the undergraduate credits may be counted toward the state requirement for provisional certification. If extra credit hours are required, they may be obtained through enrollment in undergraduate courses. In addition to the major and minor requirements, the student must complete the State of Michigan requirement in professional education. Provisional certification programs are available in elementary education, secondary education and special education.

Students who qualify for a Michigan Provisional Certificate do not receive another Northern Michigan University degree.

## Department/Program Policies

### *Admission to Teacher Education Curricula*

Admission to Northern Michigan University does not necessarily imply admission to a teacher education program. Admission to teacher education is determined by the director of teacher education student services or the certification counselor in the School of Education or, on appeal, by the Teacher Selection and Retention committee.

The complete set of standards (*Teacher Selection and Retention Standards*) to which all students in the teacher education program must adhere is available in the School of Education and can be accessed through the following Web site:  
www.nmu.edu/education/standards.htm.

Admission requirements to a teacher education program of study are as follows:

- A. First semester freshmen applicants entering directly out of high school must have:
  - an ACT composite score of 20, or an SAT score of verbal 450 and math 500; and
  - a high school GPA of 2.75 in college preparatory subjects.
- B. All other undergraduate applicants must have:
  - a cumulative GPA of 2.70 in undergraduate level college credits;
  - at least 24 credits in liberal studies courses outside of their major and minor with a GPA of 2.50; and
  - ACT, SAT, or PPST scores (as listed below in D).
- C. All post-baccalaureate applicants must have:
  - a cumulative GPA of 2.70 in undergraduate level college credits; or
  - at least 40 credits in liberal studies courses outside of their major and minor with a GPA of 2.70; and
  - ACT, SAT or PPST scores (as listed below in D).
- D. All students, prior to enrolling in education courses, must be able to show competency in the areas of reading, mathematics and writing in one of the following ways:
  - ACT subscores of 21 in English and reading, and 20 in mathematics; or
  - SAT scores of verbal 450 and mathematics 500; or
  - Pre-Professional Skills Test (PPST) scores of reading 174, mathematics 173, and writing 173. If the computer based PPST is taken, the required scores are reading 321, mathematics 318 and writing 319.

Applicants may be denied admission if they do not meet the above requirements or if they have:

- more than five repeats in college courses;
- a combination of excessive repeats and withdrawals from classes; or

- more than one repeated course in any of the following areas: major, minor, professional education sequence, or the planned program and required cognates combined.

## Retention in the Program

To retain eligibility in the professional teacher education program, a student must do the following:

- A. Maintain an overall GPA of 2.70 or above.
- B. Maintain a GPA of 2.70 or greater with no grade below "C" in the professional education sequence, the major and/or minor(s), and the planned program and required cognates combined.
- C. Have no more than five total repeats, with no more than one repeat in each of the following:
  - major(s)
  - minor(s)
  - professional teacher education sequence courses
  - the planned program and required cognates combined
- D. Maintain minimum standards of behavior as outlined in the *Teacher Selection and Retention Standards*.

## Appeals

Students who are denied admission or are academically dismissed from the program may appeal the decision to the Teacher Selection and Retention Committee by contacting the committee's chairperson or the Director of Teacher Education Student Services. Hearing procedures are stated in a document titled "Academic Dismissal from the Teacher Education Program," available in the School of Education.

## Limitations on Acceptance of Transfer Courses and Validity of Courses

Students are expected to take their professional education sequence courses at Northern Michigan University. Guidelines for specific courses are as follows:

- A. **ED 201 Introduction to Education**
  - Transfer credit will be accepted but given only a satisfactory or unsatisfactory grade designation. An "S" grade will be assigned when the grade earned is "C" or greater, and a "U" grade will be assigned when the grade earned is below "C."
- B. **Methods level courses:** a minimum of 20 credits of methods level courses must be taken at NMU, including the following:

### **Elementary Education**

- ED 311 (3 credits)
- ED 316 (3 credits)
- ED 420 (11 credits)
- ED 450 (1 credit)

**Secondary Education**

ED 319 (3 credits)  
 ED 349 (2 credits)  
 — 350 (3-4 credits)  
 ED 430 (11 credits)  
 ED 450 (1 credit)

**Special Education**

ED 311 (3 credits)  
 ED 316 (3 credits)  
 ED 401 or ED 408 (4 credits)  
 ED 406 or ED 409 (2 credits)

**Elementary Base (Special Education)**

ED 423A (5 credits)  
 ED 423B or ED 423C (6 credits)  
 ED 450 (1 credit)

**Secondary Base (Special Education)**

ED 424A or ED 424B (11 credits)  
 ED 450 (1 credit)

All education courses are invalid after six years. MA 150 Mathematics for the Elementary Teacher I, MA 151 Mathematics for the Elementary Teacher II, and MA 353 Methods and Materials in Teaching Elementary School Mathematics Education are also invalid after six years.

These requirements apply to all provisional certification programs of study. Exceptions to the requirements may be made by the director of teacher education student services or the certification counselor in consultation with the appropriate faculty member.

Repeats of all education courses must be taken at NMU.

**Eligibility for Student Teaching Placement**

Students should plan to do their student teaching when they have completed all prerequisite course work. Students should notify the student teaching office of their intent to do student teaching two semesters in advance and must submit a complete student teaching application one semester in advance. Forms, policies and procedures and other information are available in the Field Experience Office.

Student teaching placements are made by the university. Students are not to contact school personnel to arrange student teaching placements.

Occasionally the university finds it difficult to secure a student teaching assignment. Although the university may request an assignment, school districts are under no obligation to accept a student teacher. Reasons such as a poor academic record or a lack of a suitable supervising teacher are responses typically given by districts when not offering a student teaching place-

ment. Students should be aware of this possibility as they progress toward a degree in teacher education.

**Eligibility for Recommendation for Certification**

To be eligible to be recommended for certification, students must satisfy the following requirements:

- A. Comply with all of the previously stated admission and retention requirements.
- B. Complete the baccalaureate degree in accordance with the above criteria and any additional criteria as established by other academic departments, where applicable.
- C. Satisfactorily complete the student teaching assignment with a recommendation for certification by the supervising teacher and the university supervisor.
- D. Satisfactorily complete all MTTC subject area competency tests as required by Public Act 451 as amended (major, minor(s), and elementary education where applicable).
- E. Beginning July 1, 2004, in order to be certified, new teachers must possess a valid certificate of course completion for first aid training that includes cardiopulmonary resuscitation (CPR). This training must be from the American Red Cross or the American Heart Association.

**Other Requirements**

All education majors must complete EN 111 College Composition I and EN 211 College Composition II (or equivalent) with a grade of "C" or better.

Students who do not meet requirements for continuous enrollment (e.g., those who drop out for one or more semesters or withdraw from all courses in which they are enrolled) are required to re-apply for admission to the level of the teacher education program that they were enrolled in at the time of their departure.

Students may be required to complete other tests or evaluation procedures for admission to any phase of the teacher education program, for removal of any suspension from the program, or for teacher certification.

**Title II Requirements**

NMU complies with all federal and state Title II requirements. NMU's teacher education program has a 100 percent pass rate on MTTC subject area tests for students who complete the program, and is nationally accredited. More information can be found at [www.nmu.edu/education/titleII](http://www.nmu.edu/education/titleII).

## Information for Elementary Education Majors

Academic advising for students in the elementary education program takes place through the School of Education. Students are required to adhere to state standards that do not necessarily apply to students outside the program. We strongly encourage students to maintain contact with their advisers and to be familiar with the *Teacher Selection and Retention Standards* that they receive upon admission to the program. Detailed planning sheets for the various major/minor options are available in the Teacher Education Student Services Office.

### *Social Studies Component*

All students in the elementary education curriculum must complete a 16 credit hour social studies requirement. Any AN, EC, HS, PS or SO prefixed course fulfills this requirement, as well as ENV 101, FR 310, GC 100, GC 164, GC 300, NAS 204, PL 270 and SN 314. These credits can be double counted with other program requirements.

### *Major/Minors Program Guidelines*

A major or two minors are required. Majors are available only in the five core content subject areas listed below. If two minors are chosen, one of the minors must be selected from the five core content subject areas.

### *Core Content Subject Areas for Majors and Minors*

1. **Language Arts (group):** contains English, journalism, speech and reading courses.
2. **English (straight):** contains literature, writing and grammar courses.
3. **Integrated Science (group) (pending state approval):** contains biology, earth/space science and physical science courses.
4. **Social Studies (group):** contains economics, geography, history and political science courses.
5. **Mathematics (straight):** contains math and computer science courses.

### *Minor Subject Areas*

- French
- Geography
- German (pending state approval)
- History
- Physical Education
- Reading
- Spanish

Minors that overlap in content (e.g., English, reading and language arts) are prohibited.

## Information for Secondary Education Majors

The School of Education contributes professional studies courses in education to the secondary education curricula. Information about entrance, test and certification requirements is available from the Teacher Education Student Services Office.

Prospective secondary school teachers are advised on course selection and other academic matters by faculty members of the department or area in which students plan to major.

### *Approved Secondary Education Majors and Minors*

#### *Majors*

- Art and Design
- Biology
- Business
- Chemistry
- Earth Science
- Economics
- English
- French
- Geography
- Health
- History
- Industrial Technology
- Integrated Science (pending state approval)
- Mathematics
- Music
- Physical Education
- Physics
- Political Science
- Social Studies
- Special Education
- Spanish

#### *Minors*

- Biology
- Chemistry
- Earth Science
- Economics
- English
- French
- Geography
- German
- Health
- History
- Mathematics
- Physical Education
- Physics
- Political Science
- Spanish

## BACHELOR DEGREE PROGRAMS

*Liberal Studies: Complete information on the liberal studies requirements and additional graduation requirements, including the health promotion requirement, is in the "Liberal Studies Program and Graduation Requirements" section of this bulletin (38-44).*

*Courses within each major that can be used to satisfy liberal studies requirements are listed with the roman numeral (in brackets) that coincides with the liberal studies division the course falls under.*

### English Major-Elementary Education

<b>Total Credits Required for Degree</b>	<b>136-141</b>
<b>Liberal Studies</b>	<b>30-40</b>
<b>Health Promotion</b>	<b>2</b>
<b>Core</b>	<b>30</b>
EN 309 The Teaching of Writing	4
EN 112 Mythology [II]	4
EN 282 Introduction to Literature	4
EN 200 Basic English Grammar and Usage for Teachers	2
ED 306 Children's Literature	3
EN 404 The English Language	4
English Electives	9
<b>Professional Education</b>	<b>25</b>
ED 201 Introduction to Education	2
ED 230 Teaching and Learning in the Elementary Classroom	4
ED 301 Dimensions of American Education	2
ED 318 Elementary Reading Instruction II	3
ED 361 Special Education and the General Classroom Teacher	2
ED 420 Teaching in the Elementary School	11
ED 450 Seminar in Teaching	1
<b>Required Cognates</b>	<b>25</b>
MSED 250 Physical Science for Educators	4
MSED 251 Life Science for Educators	4
MSED 252 Earth Science for Educators	4
MA 150 Mathematics for the Elementary School Teacher I	4
MA 151 Mathematics for the Elementary School Teacher II	4
MA 353 Methods and Materials in Teaching Elementary School Mathematics	3
ED 483 Educational Media and Technology	2
<b>Planned Program</b>	<b>22</b>
ED 310 Social Studies Methods and Materials for Elementary Teachers	3
ED 312 Science Methods and Materials for Elementary Teachers	3
ED 311 Language Arts Methods and Materials for Elementary Teachers	3
ED 316 Elementary Reading Instruction I	3
HL 150 Health Education for the Elementary School Teacher	2
MU 149A Music in the Elementary School I	2
AD 310 Art for the Elementary Classroom Teacher	2
ED 307 Integrating the Arts into the Elementary Curriculum	2
PE 224 Developmental Physical Education for Elementary Teachers	2
<b>Other Required Course</b>	<b>4</b>
HS 126 The United States to 1865 [IV]	4

### Integrated Science Major-Elementary Education (pending state approval)

<b>Total Credits Required for Degree</b>	<b>129-133</b>
<b>Liberal Studies</b>	<b>30-40</b>
<b>Health Promotion</b>	<b>2</b>
<b>Core</b>	<b>36</b>
MSED 250 Physical Science for Educators	4
MSED 251 Life Science for Educators	4
MSED 252 Earth Science for Educators	4
<b>Biology Electives</b>	<b>8</b>
<i>Choose from the following:</i>	
BI 100 Biological Science (4 cr.) [III]	
BI 104 Human Anatomy and Physiology (4 cr.) [III]	
BI 111 Introductory Biology: Principles (4 cr.) [III]	
BI 112 Introductory Biology: Diversity (4 cr.) [III]	
<b>Physical Science Electives</b>	<b>8</b>
<i>Choose 1 of the following chemistry courses:</i>	
CH 105 Chemical Principles (4 cr.) [III]	
CH 107 Introductory Chemistry I (4 cr.) [III]	
CH 111 General Chemistry I (5 cr.) [III]	
<i>Choose 1 of the following physics courses:</i>	
PH 201 College Physics I (5 cr.) [III]	
PH 220 Introductory Physics I (5 cr.) [III]	
<b>Earth/Space Science Electives</b>	<b>8</b>
<i>Choose from the following:</i>	
AS 103 Observational and Solar System Astronomy (4 cr.) [III]	
ENV 101 Introduction to Environmental Science (4 cr.) [III]	
GC 255 Physical Geology (4 cr.) [III]	
GC 385 Weather and Climate (4 cr.)	
GC 465 Hydrology (4 cr.)	
<b>Professional Education</b>	<b>25</b>
ED 201 Introduction to Education	2
ED 230 Teaching and Learning in the Elementary Classroom	4
ED 301 Dimensions of American Education	2
ED 318 Elementary Reading Instruction II	3
ED 361 Special Education and the General Classroom Teacher	2
ED 420 Teaching in the Elementary School	11
ED 450 Seminar in Teaching	1
<b>Required Cognates</b>	<b>13</b>
MA 150 Mathematics for the Elementary School Teacher I	4
MA 151 Mathematics for the Elementary School Teacher II	4
MA 353 Methods and Materials in Teaching Elementary School Mathematics	3
ED 483 Educational Media and Technology	2
<b>Planned Program</b>	<b>25</b>
ED 310 Social Studies Methods and Materials for Elementary Teachers	3
ED 312 Science Methods and Materials for Elementary Teachers	3
ED 311 Language Arts Methods and Materials for Elementary Teachers	3
ED 316 Elementary Reading Instruction I	3
HL 150 Health Education for the Elementary School Teacher	2
MU 149A Music in the Elementary School I	2
AD 310 Art for the Elementary Classroom Teacher	2
ED 307 Integrating the Arts into the Elementary Curriculum	2
PE 224 Developmental Physical Education for Elementary Teachers	2

AD 310 Art for the Elementary Classroom Teacher	2
ED 307 Integrating the Arts into the Elementary Curriculum	2
PE 224 Developmental Physical Education for Elementary Teachers	2
<b>Other Required Course</b>	<b>4</b>
HS 126 The United States to 1865 [IV]	4

**Language Arts Major-Elementary Education**

<b>Total Credits Required for Degree</b>	<b>135-140</b>
<b>Liberal Studies</b>	<b>30-40</b>
<b>Health Promotion</b>	<b>2</b>
<b>Core</b>	<b>36</b>
ED 306 Children's Literature	3
EN 309 The Teaching of Writing	4
EN 200 Basic English Grammar and Usage for Teachers	2
SP 100 Public Address	4
SP 110 Interpersonal Communication	4
EN 206 Survey of Journalism	4
ED 311 Language Arts Methods and Materials for Elementary Teachers	3
ED 316 Elementary Reading Instruction I	3
SP 240 Oral Interpretation of Literature [II] <i>or</i> SP 402 Communication Criticism [II]	4
English Electives	5
<b>Professional Education</b>	<b>25</b>
ED 201 Introduction to Education	2
ED 230 Teaching and Learning in the Elementary Classroom	4
ED 301 Dimensions of American Education	2
ED 318 Elementary Reading Instruction II	3
ED 361 Special Education and the General Classroom Teacher	2
ED 420 Teaching in the Elementary School	11
ED 450 Seminar in Teaching	1
<b>Required Cognates</b>	<b>14</b>
MSED 250 Physical Science for Educators	4
MSED 251 Life Science for Educators	4
MSED 252 Earth Science for Educators	4
ED 483 Educational Media and Technology	2
<b>Planned Program</b>	<b>27</b>
ED 310 Social Studies Methods and Materials for Elementary Teachers	3
ED 312 Science Methods and Materials for Elementary Teachers	3
MA 150 Mathematics for the Elementary School Teacher I	4
MA 151 Mathematics for the Elementary School Teacher II	4
MA 353 Methods and Materials in Teaching Elementary School Mathematics	3
HL 150 Health Education for the Elementary School Teacher	2
MU 149A Music in the Elementary School I	2
AD 310 Art for the Elementary Classroom Teacher	2
ED 307 Integrating the Arts into the Elementary Curriculum	2
PE 224 Developmental Physical Education for Elementary Teachers	2
<b>Other Required Course</b>	<b>4</b>
HS 126 The United States to 1865 [IV]	4

**Mathematics Major-Elementary Education**

<b>Total Credits Required for Degree</b>	<b>132-135</b>
<b>Liberal Studies</b>	<b>30-40</b>
<b>Health Promotion</b>	<b>2</b>
<b>Core</b>	<b>33</b>
MA 103 Finite Mathematics [III]	4
MA 150 Mathematics for the Elementary School Teacher I	4
MA 151 Mathematics for the Elementary School Teacher II	4
MA 250 Algebraic Structures for the Elementary School Teacher	4
MA 251 Probability and Statistics for the Elementary School Teacher	4
MA 271 Calculus with Applications	4
MA 351 Models and Problem Solving for the Elementary School Teacher	4
MA 353 Methods and Materials in Teaching Elementary School Mathematics	3
MA 354 Methods and Materials in Teaching Junior High School Mathematics	2
<b>Professional Education</b>	<b>25</b>
ED 201 Introduction to Education	2
ED 230 Teaching and Learning in the Elementary Classroom	4
ED 301 Dimensions of American Education	2
ED 318 Elementary Reading Instruction II	3
ED 361 Special Education and the General Classroom Teacher	2
ED 420 Teaching in the Elementary School	11
ED 450 Seminar in Teaching	1
<b>Required Cognates</b>	<b>14</b>
MSED 250 Physical Science for Educators	4
MSED 251 Life Science for Educators	4
MSED 252 Earth Science for Educators	4
ED 483 Educational Media and Technology	2
<b>Planned Program</b>	<b>25</b>
ED 310 Social Studies Methods and Materials for Elementary Teachers	3
ED 312 Science Methods and Materials for Elementary Teachers	3
ED 306 Children's Literature	3
ED 311 Language Arts Methods and Materials for Elementary Teachers	3
ED 316 Elementary Reading Instruction I	3
HL 150 Health Education for the Elementary School Teacher	2
MU 149A Music in the Elementary School I	2
AD 310 Art for the Elementary Classroom Teacher	2
ED 307 Integrating the Arts into the Elementary Curriculum	2
PE 224 Developmental Physical Education for Elementary School Teachers	2
<b>Other Required Courses</b>	<b>8</b>
HS 126 The United States to 1865 [IV]	4
CS 255 Computing for the Elementary School Teacher [V]	4

## Social Studies Major-Elementary Education

<b>Total Credits Required for Degree</b>	<b>129-133</b>
<b>Liberal Studies</b>	<b>30-40</b>
<b>Health Promotion</b>	<b>2</b>
<b>Required Courses in Major</b>	<b>36</b>
<b>Economics Electives</b>	<b>8</b>
<i>Choose from the following:</i>	
EC 101 The American Economy (4 cr.) [IV]	
EC 201 Microeconomic Principles (4 cr.)	
EC 202 Macroeconomic Principles (4 cr.)	
<b>Geography Electives</b>	<b>8</b>
<i>Choose from the following:</i>	
ENV 101 Introduction to Environmental Science (4 cr.) [III] or GC 100 Physical Geography (4 cr.) [III]	
GC 164 Cultural Geography (4 cr.) [IV]	
<b>History Electives</b>	<b>8</b>
<i>Choose from the following:</i>	
HS 101 History of Western Civilization to 1600 (4 cr.) [II] or HS 102 History of Western Civilization Since 1600 (4 cr.) [III]	
HS 126 The United States to 1865 (4 cr.) [IV]	
<b>Political Science Electives</b>	<b>8</b>
<i>Choose from the following:</i>	
PS 101 Introduction to Political Science (4 cr.) [IV]	
PS 105 American Government (4 cr.) [IV]	
PS 203 Comparative Government and Politics (4 cr.)	
PS 309 State and Local Government (4 cr.)	
EC/GC/HS/PS Electives	4
<i>Choose a 300-level course if PS 309 is not taken above.</i>	
<b>Professional Education</b>	<b>25</b>
ED 201 Introduction to Education	2
ED 230 Teaching and Learning in the Elementary Classroom	4
ED 301 Dimensions of American Education	2
ED 318 Elementary Reading Instruction II	3
ED 361 Special Education and the General Classroom Teacher	2
ED 420 Teaching in the Elementary School	11
ED 450 Seminar in Teaching	1
<b>Required Cognates</b>	<b>25</b>
MSED 250 Physical Science for Educators	4
MSED 251 Life Science for Educators	4
MSED 252 Earth Science for Educators	4
MA 150 Mathematics for the Elementary School Teacher I	4
MA 151 Mathematics for the Elementary School Teacher II	4
MA 353 Methods and Materials in the Teaching of Elementary School Mathematics	3
ED 483 Educational Media and Technology	2
<b>Planned Program</b>	<b>25</b>
ED 310 Social Studies Methods and Materials for Elementary Teachers	3
ED 312 Science Methods and Materials for Elementary Teachers	3
ED 306 Children's Literature	3
ED 311 Language Arts Methods and Materials for Elementary Teachers	3
ED 316 Elementary Reading Instruction I	3
HL 150 Health Education for the Elementary School Teacher	2

MU 149A Music in the Elementary School I	2
AD 310 Art for the Elementary Classroom Teacher	2
ED 307 Integrating the Arts into the Elementary Curriculum	2
PE 224 Developmental Physical Education for Elementary Teachers	2

## Two Minors-Elementary Education

<b>Total Credits Required for Degree</b>	<b>128-157</b>
<b>Liberal Studies</b>	<b>30-40</b>
<b>Health Promotion</b>	<b>2</b>
<b>Two Minors</b>	<b>40-56</b>
<b>Professional Education</b>	<b>25</b>
ED 201 Introduction to Education	2
ED 230 Teaching and Learning in the Elementary Classroom	4
ED 301 Dimensions of American Education	2
ED 318 Elementary Reading Instruction II	3
ED 361 Special Education and the General Classroom Teacher	2
ED 420 Teaching in the Elementary School	11
ED 450 Seminar in Teaching	1
<b>Required Cognates</b>	<b>17-40</b>
MA 150 Mathematics for the Elementary School Teacher I	4
MA 151 Mathematics for the Elementary School Teacher II	4
MA 353 Methods and Materials in Teaching Elementary School Mathematics	3
MSED 250 Physical Science for Educators	4
MSED 251 Life Science for Educators	4
MSED 252 Earth Science for Educators	4
ED 306 Children's Literature	3
MU 149A Music in the Elementary School I	2
AD 310 Art Elementary Classroom Teacher	2
ED 307 Integrating the Arts into the Elementary Curriculum	2
PE 224 Developmental Physical Education for Elementary Teachers	2
ED 483 Educational Media and Technology	2
<b>Planned Program</b>	<b>14</b>
ED 310 Social Studies Methods and Materials for Elementary Teachers	3
ED 312 Science Methods and Materials for Elementary Teachers	3
ED 311 Language Arts Methods and Materials for Elementary Teachers	3
ED 316 Elementary Reading Instruction I	3
HL 150 Health Education for the Elementary School Teacher	2
<b>Other Required Course</b>	
HS 126 The United States to 1865 [IV]	4

## ELEMENTARY EDUCATION MINORS

### English Minor-Elementary Education

<b>Total Credits Required for Minor</b>	<b>20</b>
EN 112 Mythology [II]	4
EN 200 Basic English Grammar and Usage for Teachers	2
EN 282 Introduction to Literature	4
EN 309 The Teaching of Writing	4
EN 404 The English Language	4
English Electives	2

### French Minor-Elementary Education

<b>Total Credits Required for Minor</b>	<b>24</b>
FR 201 Intermediate French I [V]	4
FR 202 Intermediate French II [V]	4
FR 300 Reading and Writing	4
FR 305 Conversational French [V]	4
FR 400 Advanced French Composition and Grammar	4
LG 350 Methods and Materials in Teaching Language Education	4

### Geography Minor-Elementary Education

<b>Total Credits Required for Minor</b>	<b>22</b>
ENV 101 Introduction to Environmental Science [III]	4
GC 100 Physical Geography [III]	4
GC 164 Cultural Geography [III]	4
GC 200 North America	4
GC 225 Introduction to Maps	2
GC 435 Geography of Michigan	4

### German Minor-Elementary Education (pending state approval)

<b>Total Credits Required for Minor</b>	<b>24</b>
GR 201 Intermediate German I [V]	4
GR 202 Intermediate German II [V]	4
GR 300 Reading and Writing	4
GR 305 Conversational German [V]	4
GR 400 Advanced Composition and Grammar	4
LG 350 Methods and Materials in Teaching Language Education	4

### History Minor-Elementary Education

<b>Total Credits Required for Minor</b>	<b>20</b>
HS 104 The Third World in Historical Perspective [IV]	4
HS 126 The United States to 1865 [IV]	4
HS 127 The United States Since 1865 [IV]	4
HS 200 Historical Thinking and Writing	4
HS 101 History of Western Civilization to 1500 [II] <i>or</i>	4
HS 102 History of Western Civilization Since 1500 [III]	

### Integrated Science Minor-Elementary Education (pending state approval)

<b>Total Credits Required for Minor</b>	<b>24-25</b>
MSED 250 Physical Science for Educators	4
MSED 251 Life Science for Educators	4
MSED 252 Earth Science for Educators	4
<b>Biology Electives</b>	<b>4</b>
<i>Choose from the following:</i>	
BI 100 Biological Science (4 cr.) [III]	
BI 104 Human Anatomy and Physiology (4 cr.) [III]	
BI 111 Introductory Biology: Principles (4 cr.) [III]	
BI 112 Introductory Biology: Diversity (4 cr.) [III]	

<b>Physical Science Electives</b>	<b>4-5</b>
<i>Choose from the following:</i>	
CH 105 Chemical Principles (4 cr.) [III]	
CH 107 Introductory Chemistry I (4 cr.) [III]	
CH 111 General Chemistry I (5 cr.) [III]	
PH 201 College Physics I (5 cr.) [III] <i>or</i>	
PH 220 Introductory Physics I (5 cr.) [III]	

<b>Earth/Space Science Electives</b>	<b>4</b>
<i>Choose from the following:</i>	
AS 103 Observational and Solar System Astronomy (4 cr.) [III]	
ENV 101 Introduction to Environmental Science (4 cr.) [III]	
GC 255 Physical Geology (4 cr.) [III]	
GC 385 Weather and Climate (4 cr.)	

### Language Arts Minor-Elementary Education

<b>Total Credits Required for Minor</b>	<b>24</b>
ED 306 Children's Literature	3
EN 200 Basic English Grammar and Usage for Teachers	2
EN 206 Survey of Journalism	4
EN 309 The Teaching of Writing	4
English Electives	3
SP 100 Public Address	4
SP 110 Interpersonal Communication	4

### Mathematics Minor-Elementary Education

<b>Total Credits Required for Minor</b>	<b>27</b>
MA 150 Mathematics for the Elementary School Teacher I	4
MA 151 Mathematics for the Elementary School Teacher II	4
MA 250 Algebraic Structures for the Elementary School Teacher	4
MA 251 Probability and Statistics for the Elementary School Teacher	4
MA 351 Models and Problem Solving for the Elementary School Teacher	4
MA 353 Methods and Materials in Teaching Elementary School Mathematics	3
CS 255 Computing for the Elementary School Teacher [V]	4

### Physical Education Minor-Elementary Education

<b>Total Credits Required for Minor</b>	<b>22</b>
PE 110 Introduction to Physical Education	2
PE 203 Dance for Children <i>or</i>	1
PE 211 Dance Survey	
PE 224 Developmental Physical Education for Elementary Teachers	2
PE 310 Measurement and Evaluation in Physical Education	3
PE 315 Physiology of Exercise	4
PE 346 Adapted Physical Education	2
PE 350 Methods and Materials in Teaching Physical Education	3
HL 242 Emergency Health Care	2
<b>Activity Courses</b>	<b>3</b>
<i>Choose from the following</i>	
PE 100 Rhythmic Movement Fundamentals (.5 cr.)	
PE 101 Volleyball (.5 cr.)	
PE 103 Tumbling Activities (.5 cr.)	
PE 199 Team Sports (.5 cr.)	



- PE 200 Track and Field (.5 cr.)
- HP 231B Skiing-Cross County or HP 216 Skating-Beginning (1 cr.)
- HP 218 Folk Dance (1 cr.)
- HP 226 Modern Dance-Beginning (1 cr.)

### Reading Minor-Elementary Education

<b>Total Credits Required for Minor</b>	<b>22</b>
EN 200 Basic English Grammar and Usage for Teachers	2
EN 309 The Teaching of Writing	4
ED 306 Children's Literature	3
ED 111 Language Arts Methods and Materials for Elementary Teachers	3
ED 316 Elementary Reading Instruction I	3
ED 318 Elementary Reading Instruction II	3
ED 462 Literature for Young Adults	3
ED 491 Seminar in Education: Reading	1

### Social Studies Minor-Elementary Education

<b>Total Credits Required for Minor*</b>	<b>32</b>
<b>Economics Electives</b>	<b>8</b>
<i>Choose from the following:</i>	
EC 101 The American Economy (4 cr.) [IV]	
EC 201 Microeconomic Principles (4 cr.)	
EC 202 Macroeconomic Principles (4 cr.)	
<b>Geography Electives</b>	<b>8</b>
<i>Choose from the following:</i>	
ENV 101 Introduction to Environmental Science (4 cr.) [III] or GC 100 Physical Geography (4 cr.) [III]	
GC 164 Human Geography (4 cr.) [IV]	
<b>History Electives</b>	<b>8</b>
<i>Choose from the following:</i>	
HS 101 History of Western Civilization to 1600 (4 cr.) [II] or HS 102 History of Western Civilization Since 1600 (4 cr.) [II]	
HS 126 The United States to 1865 (4 cr.) [IV]	
<b>Political Science</b>	<b>8</b>
<i>Choose from the following:</i>	
PS 101 Introduction to Political Science (4 cr.) [IV]	
PS 105 American Government (4 cr.) [IV]	
PS 203 Comparative Government and Politics (4 cr.)	
PS 309 State and Local Government (4 cr.)	
<i>*This minor may be met by transfer students with 6 credit hours in each area for a total of 24 credit hours.</i>	

### Spanish Minor-Elementary Education

<b>Total Credits Required for Minor</b>	<b>24</b>
SN 300 Reading and Writing	4
SN 305 Conversational Spanish [V]	4
SN 310 Introduction to Spanish Civilization and Culture	4
SN 312 Introduction to Spanish America	4
SN 400 Advanced Spanish Composition and Grammar	4
LG 350 Methods and Materials in Teaching Language Education	4

### Special Education Major-Elementary Education

<b>Total Credits Required for Degree</b>	<b>143-147</b>
<b>Liberal Studies</b>	<b>30-40</b>
<b>Health Promotion</b>	<b>2</b>
<b>Required Courses in Major*</b>	<b>30</b>
ED 360 Orientation to Special Education	4
ED 402 Teaching Life Skills to Students with Disabilities	2
ED 403 Transition for Students with Disabilities	2
ED 404 Assistive Technology for Students with Disabilities	2
ED 405 Diagnosis and Assessment in Special Education	4
ED 410 Legal Rights and Services	2
<i>Choose one of the following specialty areas:</i>	<b>14</b>
<b>A. Cognitive Impairments</b>	
ED 400 Introduction to Cognitive Impairment	4
ED 401 Curriculum and Methods for Teaching Students with Cognitive Impairment	4
CD 150 Survey Communication Disorders	4
ED 406 Supervised Apprenticeship in Teaching Students with Cognitive Impairment in K-12 Settings	2
<b>B. Emotional Impairment</b>	
ED 407 Introduction to Emotional Impairment	4
ED 408 Curriculum and Methods for Teaching Students with Emotional Impairment	4
ED 495 Special Topics: Aggression	4
ED 409 Supervised Apprenticeship in Teaching Students with Emotional Impairment in K-12 Settings	2
<b>Planned Program</b>	<b>50</b>
ED 201 Introduction to Education	2
ED 230 Teaching and Learning in the Elementary Classroom	4
ED 301 Dimensions in American Education	2
ED 306 Children's Literature	3
ED 310 Social Studies Methods and Materials for Elementary Teachers	3
ED 311 Language Arts Methods and Materials for Elementary Teachers	3
ED 312 Science Methods and Materials for Elementary Teachers	3
ED 316 Elementary Reading Instruction I	3
ED 318 Elementary Reading Instruction II	3
MA 150 Mathematics for the Elementary School Teacher I	4
MA 151 Mathematics for the Elementary School Teacher II	4
MA 353 Methods and Materials in Teaching Elementary School Mathematics	2
MSED 250 Physical Science for Educators	4
MSED 251 Life Science for Educators	4
MSED 252 Earth Science for Educators	4
ED 483 Educational Media and Technology	2
<b>Psychology Requirement</b>	<b>16</b>
PY 100S, L, or H, Psychology as a Natural Science [III] or PY 100G Psychology as a Social Science [IV]	4
PY 203 Applied Behavioral Analysis	4
PY 211 Learning	4
PY 335 Social Psychology	4
<i>Note: Add PY 355 Abnormal Psychology for special education psychology minor. This minor is not approved as a teaching minor.</i>	

**Professional Education 12**

*Note: Students who elect to complete majors in both specialty areas must student teach in emotional impairment and cognitive impairment.*

ED 423A Teaching in the Elementary School	5
ED 423B Teaching Students with Cognitive Impairment in K-12 Schools <i>or</i>	6
ED 423C Teaching Students with Emotional Impairment in K-12 Schools	6
ED 450 Seminar in Teaching	1

**Other Required Course 4**

HS 126 The United States to 1865 [IV]	4
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*\*Social Studies Component*

*All students in the elementary education curriculum must complete a 16 credit hour social studies requirement. Any AN, EC, HS, PS or SO prefixed course fulfills this requirement, as well as ENV 101, FR 310, GC 100, GC 164, GC 300, GR 310, NAS 204, PL 270 and SN 314. These credits can be double counted with other program requirements.*

**Special Education Major-Secondary Education**

**Total Credits Required for Degree 133-158**

<b>Liberal Studies</b>	<b>30-40</b>
<b>Health Promotion</b>	<b>2</b>

**Required Courses in Major 30**

ED 360 Orientation to Special Education	4
ED 402 Teaching Life Skills to Students with Disabilities	2
ED 403 Transition for Students with Disabilities	2
ED 404 Assistive Technology for Students with Disabilities	2
ED 405 Diagnosis and Assessment in Special Education	4
ED 410 Legal Rights and Services	2

*Choose one of the following specialty areas 14*

**A. Cognitive Impairments**

ED 400 Introduction to Cognitive Impairment	4
ED 401 Curriculum and Methods for Teaching Students with Cognitive Impairment	4
CD 150 Survey of Communication Disorders	4
ED 406 Supervised Apprenticeship in Teaching Students with Cognitive Impairment in K-12 Settings	2

**B. Emotional Impairment**

ED 407 Introduction to Emotional Impairment	4
ED 408 Curriculum and Methods for Teaching Students with Emotional Impairment	4
ED 495 Special Topics: Aggression	4
ED 409 Supervised Apprenticeship in Teaching Students with Emotional Impairment in K-12 Settings	2

**Planned Program 34**

ED 201 Introduction to Education	2
ED 231 Teaching and Learning in the Secondary Classroom	2
ED 301 Dimensions in American Education	2
ED 311 Language Arts Methods and Materials	3
ED 316 Elementary Reading Instruction I	3
ED 318 Elementary Reading Instruction II	3
ED 319 The Teaching of Reading for Secondary Teachers	3
ED 349 Teaching for Diversity, Equity and Social Justice in the Secondary School Community	2
ED 483 Educational Media and Technology	2

MA 150 Mathematics for the Elementary School Teacher I	4
MA 151 Mathematics for the Elementary School Teacher II	4
MA 353 Methods and Materials in Teaching Elementary School Mathematics	2

**Psychology Requirement 16**

PY 100S, L, or H, Psychology as a Natural Science [III] <i>or</i>	4
PY 100G Psychology as a Social Science [IV]	4
PY 203 Applied Behavioral Analysis	4
PY 211 Learning	4
PY 335 Social Psychology	4

*Note: Add PY 355 for special education psychology minor. This minor is not approved as a teaching minor.*

**Teaching Minor, minimum 24**

**Professional Education 12**

*Note: Students who elect to complete majors in both specialty areas must student teach in cognitive impairment and emotional impairment.*

ED 424A Teaching Students with Cognitive Impairment in K-12 Schools <i>or</i>	11
ED 424B Teaching Students with Emotional Impairment in K-12 Schools <i>or</i>	11
ED 425 Teaching Students with Emotional Impairment and/or Cognitive Impairment in K-12 Schools	1
ED 450 Seminar in Teaching	1

**CERTIFICATE PROGRAM**

**Paraprofessional Instructional Aide Certificate**

**Total Credits Required for Certificate 31**

<b>Health Promotion</b>	<b>1</b>
HP 200 Physical Well Being	1

**Technical Concentration\* 22**

PIA 100 Development, Physical and Cognitive Disabilities	2
PIA 101 The Early Elementary Student	2
PIA 102 The K-12 General Education Curriculum	2
PIA 103 Roles and Responsibilities of Paraprofessionals in the K-12 Setting	1
PIA 104 Diversity in Human Development	2
PIA 105 The Legal and Service System	2
PIA 106 Positive Behavioral Supports	2
PIA 107 Person-Centered Planning: Transition Planning	1
PIA 108 The Educational Team	2
PIA 109 Practicum	4
PIA 110 Field Experience	2

**Electives 8**

*\*Students who complete the 22 credit PIA concentration required by the State of Michigan to be employed as a paraprofessional instructional aide will be issued a letter by the director of the school of education stating completion of a state-approved program. Courses with a PIA prefix are not applicable to provisional teaching certificate programs.*