Application for State Approval of Teacher Preparation Specialty Programs

Michigan Department of Education, Office of Professional Preparation Services
P.O. Box 30008, Lansing, Michigan 48909
Phone: (517) 335-4610 *** Fax: (517) 373-0542

Directions:
• For each new, amended, or experimental program, a separate application is required.
• Application and all documentation are to be submitted electronically.
• Fax or mail only the cover page (Page 1) that is signed by the dean or director.
• All correspondence regarding this application should be addressed to the appropriate consultant identified in Attachment 1.

## I. Application Information

<table>
<thead>
<tr>
<th>Institution</th>
<th>Northern Michigan University</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDE Endorsement Area and Code (Attachment 2)</td>
<td>Social Studies Elementary RX</td>
</tr>
<tr>
<td>Date of this Application</td>
<td>November 1, 2010</td>
</tr>
<tr>
<td>Name and Title of Dean/Director</td>
<td>Rodney Clarken Ph.D.</td>
</tr>
<tr>
<td></td>
<td>Director of School of Education and Associate Dean of Teacher Education</td>
</tr>
<tr>
<td>Signature of Dean/Director</td>
<td></td>
</tr>
</tbody>
</table>

## II. Contact Information for Questions Related to This Application

<table>
<thead>
<tr>
<th>Contact Person’s Name and Title</th>
<th>Gabe Logan Ph.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Person’s Phone Number</td>
<td>1-906-227-1744</td>
</tr>
<tr>
<td>Contact Person’s Fax Number</td>
<td>1-906-227-2229</td>
</tr>
<tr>
<td>Contact Person’s E-Mail Address</td>
<td><a href="mailto:glogan@nmu.edu">glogan@nmu.edu</a></td>
</tr>
</tbody>
</table>

## III. Type of Request for Approval

(Indicate One)

<table>
<thead>
<tr>
<th>New program for institution</th>
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</thead>
<tbody>
<tr>
<td>U.S. Department of Education Classification of Instructional Programs (CIP) Code, if vocational occupational area</td>
</tr>
<tr>
<td>Compliance with State Board of Education new or modified program criteria</td>
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<tr>
<td>Experimental program</td>
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<tr>
<td>Program amendment (See Section IX for guidelines)</td>
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</tbody>
</table>
IV. Institutional Representatives

Please list individuals available to serve on Michigan Department of Education Ad-Hoc Committees related to this specialty program (e.g., program review, standards development, test development, forum planning). Include both higher education faculty and K-12 representatives.

<table>
<thead>
<tr>
<th>Name/Title</th>
<th>Specialty</th>
<th>Mailing Address</th>
<th>E-Mail Address</th>
<th>Phone</th>
<th>Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gabe Logan, Ph.D.</td>
<td>Secondary History/</td>
<td>Northern Michigan University Department of History</td>
<td><a href="mailto:glogan@nmu.edu">glogan@nmu.edu</a></td>
<td>1-906-227-1744</td>
<td>1-906-227-2229</td>
</tr>
<tr>
<td></td>
<td>Social Studies</td>
<td>1401 Presque Isle Ave, Marquette, MI 49855</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Derek Anderson, EdD</td>
<td>Elementary Social</td>
<td>Northern Michigan University, 1401 Presque Isle Ave.</td>
<td><a href="mailto:dereande@nmu.edu">dereande@nmu.edu</a></td>
<td>906-227-1873</td>
<td>906-227-2764</td>
</tr>
<tr>
<td></td>
<td>Studies</td>
<td>Marquette, MI 49855</td>
<td></td>
<td></td>
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</tbody>
</table>

V. Program Information

Program Summary

Prepare a program narrative (5-6 page maximum) which:

- Describes the philosophy, rationale, and objectives of the specialty program and explains how the program is consistent with the philosophy, rationale, and conceptual framework of the unit.
- Describes the sequence of courses and/or experiences to develop an understanding of the structures, skills, core concepts, ideas, values, facts, methods of inquiry, and uses of technology.
- Describes how candidates are prepared to utilize a variety of instructional approaches to address the various learning styles of students.
- Describes any differences that may exist between elementary or secondary preparation to teach in each major or minor area (e.g., instructional resources, field placements, instructional techniques), if applicable.
- Describes how the program incorporates gender equity, multi-cultural, and global perspectives into the teaching of the subject area.
- Describes how the program prepares candidates to use multiple methods of assessment appropriate to this specialty area.

Program Coursework

Complete Attachment 3 showing the required and elective courses for this program. This list should include the following information:

- Contact person for specialty program.
- Course title and number.
- Number of semester hours for required and elective courses.
- Designation for elementary, secondary, or K-12 certification.
- Course descriptions.

Please refer to the Quick Reference Chart at:
http://www.michigan.gov/documents/MinimumRequiredHoursSpecialty-
ELEMENTARY EDUCATION SOCIAL STUDIES CERTIFICATION PROGRAM
APPLICATION
PROGRAM SUMMARY

Goals of the NMU Teacher Education Program

The mission of the NMU Teacher Education Program is to provide candidates a challenging, relevant and rewarding experience that will allow candidates to acquire professional competence.

The goals to achieve this mission are as follows:
• Understand the role and operation of the school;
• Respect and work effectively with students of varying backgrounds and cultures;
• Assume the various responsibilities of the classroom teacher;
• Plan instruction and learning experiences that recognize the individual needs and differences of students;
• Organize and manage the classroom environment to maximize learning;
• Manage classroom interactions and student conduct to create a positive climate for learning;
• Identify and use appropriate instructional techniques, media and methods;
• Evaluate learning to determine the extent to which instructional objectives are achieved by students;
• Establish positive and effective communication with students, parents, colleagues, administrators and community members;
• Accept and assume the responsibilities associated with being a competent professional and lifelong learner; and,
• Practice being a reflective teacher.

Conceptual Framework for NMU Teacher Education: Philosophy, Rationale and Objectives

During the Fall of 2006 and Winter of 2007 Northern Michigan University Teacher Education faculty reviewed, revised, and readopted the April 2000 Conceptual Framework presented in full here. Below, we provide an overview of our conceptual framework which begins with a definition of education. Israel Scheffler (1976) offered the following:

[Education is] the formation of habits of judgment and the development of character, the elevation of standards, the facilitation of understanding, the development of taste and discrimination, the stimulation of curiosity and wondering, the fostering of style and a sense of beauty, the growth of a thirst for new ideas and vision of the yet unknown (p 206).

In addition to a definition of education, three questions shaped the development of our conceptual framework: (1) What is the nature of teaching, both as we practice it and as we wish our candidates to? (2) What are the models of learning we wish to develop in our candidates and practice within our faculty? (3) What is the knowledge base we wish to incorporate in our instructional program? The answers to these questions culminated into five Derivatives that describe our framework. In what follows, we provide a brief introduction to our derivatives with a direct reference to a primary source that helped guide our thinking.

Derivative #1: Habits of Judgment and Development of Character [Scheffler (1965, 1976); Schön (1983)]
Taking this derivative seriously commits us as a faculty to developing both habits of mind and habits of the heart that will lead to a practice steeped in reflection and judgment and based in the ethics that define good character.

**Derivative #2: Teaching as Artistry [Eisner (1998)]**
As an ethical activity, teaching requires, among other things, that teachers value their students. Valuing as in appreciation carries a connotation of the aesthetic. That is, teachers must exhibit artistry in the practice of their craft and must develop in becoming a connoisseur of excellent teaching which is essential to becoming an excellent teacher.

**Derivative #3: Subject Matter Content as Medium [Shulman & Wilson (2004)]**
A derivative that explores subject matter content as medium arises from Scheffler’s definition of education and our claim that teaching is an art, grounded in ethical and aesthetic qualities. The artfulness of teaching is a fusing of pedagogy and content that we recognize, as Shulman did, as pedagogical content knowledge. Teachers make pedagogical judgments about what content to address and how to design classroom experiences that will assist students in engaging this content as a means to expand and deepen their own learning. The task of the teacher is to design learning experiences that will enable students to develop their own capacity for understanding (i.e., form habits of judgment, etc.).

**Derivative #4: Race, Culture, and Social Justice [Banks & Banks (2004)]**
A derivative that explores race, culture, and social justice attempts to call into question the social and political agenda in this country that has long included (and in some ways continues to be) the myth of cultural assimilation and the practice of racial hegemony in the pursuit of multicultural education. Banks and Banks (2004) describe the dimensions of multicultural education as: (1) content integration, (2) the knowledge construction process, (3) prejudice reduction, (4) an equity pedagogy, and (5) an empowering school culture and social structure (p. 20). Drawing on our view of education, as embodied in Scheffler’s definition and Banks and Banks multicultural education, we must include a commitment to providing experiences that foster a critical understanding of the central role of race, cultural and social justice.

**Derivative #5: Technology [AACTE (2008)]**
Technology as a knowledge base, medium of instruction and communication, and medium of research and professional development offers possibilities to educators at all levels. In exploring a derivative that addresses technology, we do not intend to imply that technology in and of itself is as fundamental to our conceptual framework as our other derivatives; however, technology clearly is a component of our work, as a means to an end and not an end in itself. Technology pedagogical content knowledge must serve to promote and ensure collaborative and ethical work, must engage users in critical and creative thinking and problem solving that supports candidate construction of meaning, must be weighted in light of student diversity and cultural differences and most essentially social justice and equity of access and opportunity (the digital divide).

Courses in the content area majors and minors have course goals and objectives aligned with the NMU Conceptual Framework. The conceptual framework and program philosophy for students, cooperating teachers and faculty are outlined for each phase of the program clearly showing how Phase I (pre-methods), Phase II (methods) and student teaching coursework align. All degree requirements for the Bachelor of Science in Education are made available to students and faculty through the university bulletin.

**Sequence of Courses and/or Experiences to Develop an Understanding of the Structures, Skills, Core Concepts, Ideas, Values, Facts, Methods of Inquiry, and Uses of Technology**
Our program is designed with an emphasis on candidate development through three program phases, coupled with blocked courses, and integrated field experiences. The phases are: Phase I – Pre-Methods; Phase II – Methods; and, Phase III – Student Teaching. Each phase is based upon a set of indicators from the Professional Standards for Michigan Teachers that are linked to the Final Evaluation of Student Teacher.

Entry into the Professional Education Sequence, as defined by the Teacher Selection and Retention Standards, requires a 2.7 minimum GPA and a demonstration of basic skills in the areas of reading, writing and math. To maintain enrollment in the social studies elementary education sequence all candidates must maintain a 2.7 GPA in their overall, major(s), minor(s) and professional education sequence areas through all program phases.

NMU requires all graduates to complete a world cultures course prior to graduation.

Upon entry to the Professional Education Sequence candidates complete Phase I: Pre-Methods consisting first of ED 201 Introduction to Education and ED 301 Dimensions of American Education where students explore and situate themselves within the profession. These courses require students to develop their philosophy of education, interview practicing educators, and to define the legal and ethical obligations of their profession. Phase I continues with ED 230 Teaching for Learning in the Elementary Classroom which is a learning theory course situated in a K-4 elementary school and supervised by the instructor of record.

Meeting the GPA requirements in all areas listed above and a passing score in all three areas of the MTTTC Basic Skills allows candidates to apply for methods. Phase II: Methods is conducted over the course of two semesters and is situated in local schools and students must complete a methods application to this phase of the program. The first semester Block I courses are blocked together to allow for instructors to connect learning across disciplines and to model for students an interdisciplinary approach in a K-4 setting. Block I consists of ED 311 Language Arts Methods and Materials for Elementary Teachers, ED 316 Elementary Reading Instruction I (3 credits of the required reading courses), ED 306 Children's Literature, ED 361 Special Education and the General Classroom Teacher, and ED 483 Educational Media Technology. Building upon their content course requirements and pre-methods learning, candidates complete lesson planning with classroom teachers at all building grade levels focusing on fiction and non-fiction unit development and delivery, reading assessments, individualized and differentiated instruction and instructional technology all consistent with the Michigan Grade Level Content Expectations.

Second semester Block II courses are blocked and continue the interdisciplinary approach. Block II courses are situated in a 5-8 middle school setting and are comprised of the following: ED 307 Integrating the Arts into the Elementary Curriculum, ED 310 Social Studies Methods and Materials for Elementary Teachers, ED 312 Science Methods and Materials for Elementary Teachers, ED 318 Elementary Reading Instruction II (3 credits of the required reading courses), and MA 353 Methods and Materials in Teaching Elementary School Mathematics. ED 318 requires candidates to conduct reading assessments and lesson planning for 5th grade students over the course of the semester. In addition to the 5th grade reading focus, the Block II courses guide candidates through interdisciplinary unit/lesson development using clearly defined Grade Level Content Expectations selected by the partnering classroom teachers. Candidates observe teaching and learning as teams in assigned classrooms. The Block II teaching experience occurs over the course of one week in the middle school classroom with Block II candidates teaching the entire day over the course of a week. Classroom teachers and NMU professors guide candidate reflection and critique of the teaching and learning.
Admission to Phase III: Student Teaching requires the candidate to complete a pre-application two semesters prior to the experience and an application one semester prior. Candidates can request a split placement or a full semester placement in their content area. Candidates are individually reviewed to determine which student teaching experience will best support their needs. All elementary candidates complete ED 420 Teaching in the Elementary School where candidates take on the responsibilities of the classroom teacher with mentor support from a cooperating teacher and a university supervisor. To model and guide the reflective practice outlined in our conceptual framework, all candidates participate in ED 450 Seminar in Teaching. All candidates must obtain a level of “Proficient” from their cooperating teacher(s), university supervisor and self in all categories on the Final Evaluation of Student Teacher to successfully complete the program. Candidates who obtain a level of “Proficient,” provide evidence of CPR/First Aid completion and passing scores on all MTTC elementary and subject area tests are recommended to the state for certification.

Preparation to Utilize a Variety of Instructional Approaches to Address Various Learning Styles of Students

All courses in the Professional Education Sequence incorporate the need to address varied individual learning styles through each phase of the program. The Pre-Methods Phase uses ED 201 and ED 301 (foundations) to facilitate understanding of learning styles within the context of society as a whole. ED 230 (teaching for learning) provides classroom instruction and 30 hours of on-site field experiences to allow students to observe and plan for these varied approaches. As candidates move into the Methods Phase there is a direct application of their pre-methods courses as they plan, implement and reflect upon lesson delivery in classrooms with varied populations and learning styles through the integration of ED 310 (social studies), ED 311 (language arts), ED 312 (science), ED 316 (reading), ED 318 (reading), MA 353 (math) ED 361 (special education) and ED 483 (technology). In addition, the program requires candidates to develop strategies for varied learning styles through AD 306 (children’s literature) and ED 307 (integrated arts). Addressing the high needs areas of math and science is a priority as candidates complete content area courses in the required program taught by teacher educators. The following math and science content courses incorporate varied teaching and learning styles: MA 150 (math), MA 151 (math), MSED 250 (physical science), MSED 251 (life science) and MSED 252 (earth/space science). Application of these learning styles in multiple grade level setting during methods supports the transition to the Student Teaching Phase (ED 420) where they are applied and assessed over the course of a semester through the Final Evaluation of Student Teacher, a final portfolio and a mock interview.

Gender Equity, Multi-cultural, Diversity and Global Perspectives

All courses in the Professional Education address the study of gender, multiculturalism, diversity and global perspectives. NMU requires all students to complete a World Cultures requirement prior to graduation. The pre-methods foundations courses (ED 201 & ED 301) expand on that world view as it relates to schooling. The pre-methods learning theory course (ED 230) expands on this knowledge through its immersion in a local school setting and a required field experience to the Danz School in Green Bay, WI (87% free and reduced lunch; 21% white; 8% African American; 63% Hispanic; 4% Asian; 2% Native American).

All methods courses (ED 310, ED 311, ED 312, ED 316, ED 318, MA 353, ED 361, ED 483, AD 310, PE 224) are field based and situated in the Marquette Area Public Schools which is comprised of male and female students, racially diverse populations (85% white; 3.5% African American; 4% Hispanic; 2.6% Asian; 8.2% Native American), students on free and reduced lunch (26.7%), and inclusive classrooms.

The NMU Teacher Education fully supports a candidate’s request to student teach out of the Upper
Peninsula. The requests to student teach out-of-area must be rooted in the diversity of the experience the candidate will gain by working with varied populations. Placements in urban and rural areas that meet these criteria are supported around the world. During student teaching, candidates also have the option to complete ED 222 Classroom Management and ED 223 Multicultural Education in addition to the required seminar (ED 450) to facilitate a deeper understanding of these issues per request of the student teacher.

**Multiple Methods of Assessment**

ED 230 Teaching for Learning in the Elementary Classroom provides an introduction to assessment principles related to teaching and learning. ED 483 Educational Media Technology in Block I Methods requires candidates to reflect on their pre-methods learning and to incorporate Block I and Block II Methods new learning into a portfolio that demonstrates teaching and learning connected to state and national assessments as supported by the Grade Level Content Expectations in the social studies. The portfolio is a requirement of successful completion of student teaching.

The field based program in the methods phase allows candidates to participate in the development and administration of multiple assessments at local schools under the guidance of classroom teachers and teacher educators.

Lesson plans throughout methods (ED 310, ED 311, ED 312, ED 316, ED 318, MA 353, ED 361, ED 483, AD 310, PE 224) and student teaching (ED 420) are assessed for their ability to measure student achievement as they relate to the individual and interdisciplinary units and plans developed and taught by each candidate. Proficiency in this area is measured throughout the program and assessed upon completion of the program in the Final Evaluation of Student Teacher, a final portfolio and a mock interview.

**Collaboration with K – 12 Districts and Regional Service Agencies**

Candidates and faculty collaborate with K – 12 districts throughout the Professional Education Sequence. The pre-methods courses begin this collaboration with ED 201 and ED 301 where candidates make individual connections to local classrooms for required assignments. ED 230 is situated in a local school setting and requires 30 hours of participation. Ten of those hours are directly supervised by a teacher educator where candidates be guided in their reflection through common experiences. The Block I methods courses are field based and occur in local elementary schools. Each section of the methods in this block has its own site school supervised by the professor and Field Experiences Office. Block II methods occur in a 5 – 8 middle school. Candidates work with an assigned 5th grade classroom in reading instruction and an assigned 7th grade interdisciplinary team for semester observations culminating with a one week on site interdisciplinary unit taught by the candidates. All methods courses support the programs and Grade Level Content Expectations of the local schools.

Academic Service Learning is embedded throughout the program. In addition to local tutoring and coaching, candidates complete read-ins at local schools supporting Title I and the Marquette Alger Reading Council NMU Chapter through ED 316 (reading) and ED 318 (reading); teach in Weekend and Summer College for Kids through the Math/Science Seaborg Center (MA 353 math, ED 312 (science); conduct on-site teaching through Project Wet and Project Wild at Clear Lake Science Center (ED 312); develop lesson plans for the Iron Ore Industry Museum (ED 310); and support children with special needs through Student Michigan Education Association/Council for Exceptional Children (ED 361). Candidates can also volunteer for a number of on-campus programs supporting student growth such as the Young Wildcat Scholars Program, Upward Bound, and Upward Bound Math/Science.

**Support and Professional Development for Teacher Candidates during the Induction Period**

Graduates of the elementary program are supported through the induction period in a variety of ways. NMU offers graduate programs in the areas of reading, science, administration, and learning disabilities.
These courses are offered on campus and online.

The School of Education collaborates with the Marquette Alger Educational Resource Agency to provide ongoing professional development through the Action in Education Series offered every summer. Workshops and professional development are provided to teachers in the induction years upon request from local districts.

The following centers, conferences and resources on NMU’s campus provide ongoing support to teachers during their candidacy, induction years and beyond:

- **Center for Economic Education and Entrepreneurship**
- **Seaborg Mathematics and Science Center**
- **Upper Peninsula Writing Project** providing intense summer workshops and course on writing across the curriculum.
- **Lydia Olson Learning Resources Center** collection of young adult and children’s literature. Classroom resource center also available with kits available for checkout in content areas.
- **Upper Peninsula Reading Conference** offered fall every other year on odd years at NMU in support of reading and writing across the curriculum.
- **Upper Peninsula Special Education Conference** offered in February every year on NMU’s campus.
- **Uniting Neighbors In the Experience of Diversity** (UNITED) offered every fall on NMU’s campus in support of multiculturalism, diversity and equity for all members of the community with a particular focus on schools. Coincides with the **UP Indian Education Conference**.

### Candidate Perceptions of Teacher Preparation Program

Data on candidate performance is collected, analyzed and disseminated by the Associate Dean of Teacher Education and the Director of Field Experiences. Michigan Department of Education data for Elementary Pedagogy for the 2007 – 08 MDE Teacher Exit Survey demonstrate that 94% of elementary candidates felt prepared to teach mathematics, social studies, science, language arts, reading, writing, and comprehension. 2008 – 09 MDE Teacher Exit Survey results in Elementary Pedagogy show 96% of elementary candidates prepared to teach in those same areas. NMU surveys all teacher candidates, cooperating teachers and university supervisors in these areas as well through the use of survey tool (Final Evaluation of Student Teacher) designed to reflect the Entry Level Standards for Michigan Teachers/Professional Standards for Michigan Teachers. A review of these data for fall 2007 through winter 2010 show that student teachers self report a level of “Proficient” in the areas of “Content Area Knowledge” (94.7%) and “General Knowledge” (93.1%). Cooperating teachers assessed elementary candidates at 98.1% and 95.6% “Proficient” and university supervisors ranking elementary candidates at 94.6% and 93.8% “Proficient” respectively.

Candidate perceptions of the program in the area of technology are also reflected in a 95% efficacy score on ELSMT 7 of the 2007 – 2008 MDE Teacher Exit Survey and a score of 97% on the 2008 – 2009 MDE Teacher Exit Survey ELSMT 7.

### VI. Content Guidelines/Standards Matrix

<table>
<thead>
<tr>
<th>See attachment at:</th>
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<tbody>
<tr>
<td><a href="http://webb.nmu.edu/Departments/Education/SiteSections/Accreditation/MDEApprovals/ESS/sselemstandardsfinal.pdf">http://webb.nmu.edu/Departments/Education/SiteSections/Accreditation/MDEApprovals/ESS/sselemstandardsfinal.pdf</a></td>
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<tr>
<td>VII. Supporting Documentation</td>
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<tr>
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<tr>
<td><strong>Field Experiences</strong></td>
</tr>
<tr>
<td>• Describe how candidates for majors and minors in specific specialty programs participate in early field experiences in K-12 schools.</td>
</tr>
<tr>
<td>• Describe aspects of the student teaching experience for certification candidates that enhance the applicants’ abilities to teach in this specific specialty area. Are candidates in your institution assigned to K-12 classrooms as student teachers in both their major and minor (if applicable)?</td>
</tr>
<tr>
<td><strong>Instructional Methods</strong></td>
</tr>
<tr>
<td>• Describe how candidates are prepared to teach in this specific specialty area.</td>
</tr>
<tr>
<td><strong>Course Descriptions</strong></td>
</tr>
<tr>
<td>• Provide descriptions of all courses contained on Attachment 3. Descriptions must provide enough information to show that standards could logically be met in these courses.</td>
</tr>
<tr>
<td><strong>Syllabi</strong></td>
</tr>
<tr>
<td>• Provide a representative syllabus for each required course (those listed on Attachment 3 and referenced in the standards matrix).</td>
</tr>
<tr>
<td><strong>Faculty</strong></td>
</tr>
<tr>
<td>• Please complete the <em>Instructional Faculty</em> table from Attachment 5.</td>
</tr>
<tr>
<td>• Include all faculty teaching the courses shown on the <em>Summary of Course Requirements for Specialty Program</em> (Attachment 3), including those who may be temporary or non-tenure stream.</td>
</tr>
<tr>
<td>• List additional faculty positions that will be added if this program is approved.</td>
</tr>
<tr>
<td><strong>Technology</strong></td>
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<tr>
<td>• Describe how this program will utilize technological resources.</td>
</tr>
<tr>
<td><strong>Vocational Work Experience</strong></td>
</tr>
<tr>
<td>• If applicable, please describe the structure and content of the required vocational work experience program. How is this evaluated?</td>
</tr>
</tbody>
</table>

**ELEMENTARY EDUCATION SOCIAL STUDIES CERTIFICATION PROGRAM APPLICATION**

**SUPPORTING DOCUMENTATION**

**Field Experiences**

Phase I field experiences introduce role orientation and conceptualization.

In role orientation ED 201/301 (Introduction to Education/Dimensions of American Education), the candidate learns what becoming a teacher requires and is introduced to the profession of teaching. Field experiences at this stage involve visits to schools and classrooms to observe the nature of schooling and teaching to get a general knowledge of the role of the schools, classrooms and teachers. In ED 201/301 students have a field experience requirement of spending one-half day in a K-12 classroom. This brief exposure is to help candidates to better know if teaching is for them. They are required to interview the teacher they observe concerning their roles and responsibilities and their feelings about teaching.

ED 230 (Teaching and Learning in the Elementary Classroom) meets in an area middle school and candidates spend 30 hours in a classroom. Candidates are required to complete some of these hours by visiting a Native or urban school. The purpose of these field experiences are to provide a significant measure of contact with students in a school setting in order to better understand the
course content. As the first significant field experience in the education program, this assignment also provides candidates with a beginning opportunity to understand the dynamics of teaching and learning. Each candidate is expected to establish a working relationship with classroom teachers during this field experience. Professional demeanor is both learned and practiced in this field experience.

Phase II Field Experiences result from experiences that allow the candidates to practice various aspects related to teaching, such as lesson planning, teaching small groups or micro-teaching. Phase II of teacher education is characterized by learning to become a teacher by allowing opportunities to practice in a learning community.

Some elementary methods classes are offered in blocks to allow candidates to combine and better integrate field experiences and the content of these courses. The first block of courses consists of ED 306/311/316/361 and 483. Candidates in this methods block integrate technology, assistive technology, English/language arts, and reading in a K-4 classroom setting. Field placements are a combination of on-site courses taught and supervised by a professor and 30 scheduled classroom hours beyond course meeting times where the candidate works with a classroom teacher. Reflections for the 30 hour independent field experience are monitored in an online forum by faculty and graduate students. The on-site teaching is monitored and critiqued by the candidate and the professors in the methods block. The second block is ED 307/310/312/318 and MA 353 where candidates observe student behavior and content delivery from master teachers in a middle school setting in the areas of literature, science, reading, social studies and math. These observations are purposefully used by the professors to drive integrated instructional and behavioral plans for middle school classrooms. These observations and reflections culminate in a one week teaching experience (30 hours on site) where candidates deliver and assess integrated units taught to middle school students. These week long units/lessons are assessed by classroom teachers and teacher education faculty. ED318: Elementary Reading Instruction II requires a separate 30 hour placement in a 5th grade classroom. Candidates assess students’ reading and plan lessons accordingly under the guidance of the professor, classroom teachers and literacy coaches utilizing their content area as the foundation for this planning.

The K-8 schools and faculty assist each other to advance the art of practice, i.e., both faculties support the teaching and learning of K-12 students and of candidates preparing to become teachers. The school sites for the courses delivered on site function like “teaching studios” for “pressing” the artistry of practice and developing teachers who “reach” to other educational communities.

The courses situated in the schools create a setting for faculty to engage the candidates in reflection on the knowledge-base for what they are doing and what is being learned by the candidate prior to Phase III - Student Teaching. When the candidates begin the semester of student teaching away from these sites, they will not only demonstrate proficiency on the Final Evaluation of Student Teacher, but will also carry with them new ways of extending learning for all students, diverse students included, and new ways to utilize the various curricular frameworks and standards.

During the Phase III 16 week student teaching experience, the Director of Field Experiences, the
Teacher Education Advisory Council (TEAC) Board, and the University/classroom supervising faculties discuss issues related to maximizing the candidates’ practice teaching field experience in Phase III. These include the Professional Standards for Michigan Teachers (PSMT), the preparation of candidates, roles and responsibilities of the University and classroom supervisors, and the kind of expectations to be made of the candidate such as teacher-parent conferences, after-school responsibilities, and uses of technologies to reflect upon practice. Also, the Unit schedules ED 586: Supervision of Student Teaching to support the classroom supervising teachers in their role. These reflections and the planning that result are carried forward to the candidate to drive reflection and revision in the four required student teaching seminars.

The student teaching experience allows for candidates to teach in a 16 week placement or two 8 week placements dependent upon availability of quality classrooms in the requested areas. Candidates may also teach out of state or overseas.

**Instructional Methods**

Throughout their coursework at NMU, candidates are presented with numerous models of instructional design, delivery, and assessment. At the core of social studies is the critical examination and interpretation of multiple sources. In addition to coursework in economics, civics, history, and geography, our candidates learn multiple approaches to teach that content. Prior to student teaching, candidates teach more than 20 social studies lessons to small groups or whole classes of elementary and middle school students. Candidates’ lesson plans are reviewed by peers and faculty prior to delivery. Most of those practice lessons are observed by faculty, and all following each lesson, candidates reflect on their teaching and its connection to course content.

**Course Descriptions**
See Form XX (Attachment 3) Below

**Syllabi**
See Content Guidelines/Standards Matrix at:
http://webb.nmu.edu/Departments/Education/SiteSections/Accreditation/MDEApprovals/ESS/sselemstandardsfinal.pdf

**Faculty**
See Instructional Faculty (Attachment 5) at:
http://webb.nmu.edu/Departments/Education/SiteSections/Accreditation/MDEApprovals/ESS/sselemfaculty.pdf

**Technology**
One unique characteristic is that NMU is a laptop university. The Laptop Initiative, beginning in 2000, has provided every student and faculty member with a laptop. Our entire campus is wireless and supports the use of collaborative software to engage students with content and social networking from around the world. Use of these technologies is evident in the design of the classrooms in Whitman. Each is equipped with data projectors, document cameras, stereo equipment, and wireless access. These technologies permeate the teaching and learning in our Teacher Education Unit. Faculty work diligently to extend these technologies to the local schools we partner with. The addition of WiMax, emitting a 20 mile wireless signal, has allowed
candidates to continue to extend their teaching and learning into the local classrooms of which we are such an integral part through a more consistent university supported platform.

All elementary education candidates begin the integration of technology during Block I methods. ED 361: Special Education for the General Education Classroom requires students to incorporate assistive technology and Universal Design into lesson planning. ED 483: Education Methods in Technology requires all candidates to utilize appropriate software and hardware as it relates to lesson planning, communication, assessment, professional portfolios and content area specific strategies and resources related to teaching and learning in the content area.

All elementary candidates have courses throughout their program that access a web-based platform to facilitate reflection and discussion related to teaching and learning. Past practice has been to utilize WebCT/Blackboard with a switch to Moodle occurring in the fall of 2010. ED 316: Elementary Reading Instruction I, for example, requires candidates to participate in an online discussion board where the candidate responds to and leads discussions in issue related to their practice. In addition, candidates create podcasts, Power Points, digital storybooks, grading programs, newsletters, professional communications, web pages, etc. when applicable to the teaching and learning within the program.

Candidates and faculty are supported in their use of technology for teaching and learning in the following ways: Help Desk to address software and hardware concerns; Center for Instructional Technology in Education where faculty can go to learn about, experiment with, and get advice and assistance with a variety of instructional technology tools; Instructional Media Services which provides access to instructional media, equipment, support services and works to improve the classroom environment; online communication and information resources related to the program clearly modeled and posted on the School of Education website. Technology integration is assessed through individual courses and assessed on the Final Evaluation of Student Teacher through specific indicators related to technology.
Contact Information for Program Review Consultants

ALL communication regarding the approval of specialty programs should be addressed to the following individuals according to content area:

<table>
<thead>
<tr>
<th>Bonnie Rockafellow</th>
<th>Steven Stegink</th>
<th>Thomas H. Bell</th>
</tr>
</thead>
<tbody>
<tr>
<td>517-373-7861</td>
<td>517-241-4945</td>
<td>517-241-0172</td>
</tr>
<tr>
<td><a href="mailto:rockafellowb@michigan.gov">rockafellowb@michigan.gov</a></td>
<td><a href="mailto:SteginkS@michigan.gov">SteginkS@michigan.gov</a></td>
<td><a href="mailto:BellT1@Michigan.gov">BellT1@Michigan.gov</a></td>
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<table>
<thead>
<tr>
<th>All bilingual education</th>
<th>All science programs</th>
<th>All business education</th>
</tr>
</thead>
<tbody>
<tr>
<td>All English language arts</td>
<td>Computer Science</td>
<td>All social studies &amp; social science</td>
</tr>
<tr>
<td>All humanities</td>
<td>Environmental Studies</td>
<td>All vocational</td>
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<tr>
<td>All world languages</td>
<td>Guidance &amp; Counseling</td>
<td>Agricultural Education</td>
</tr>
<tr>
<td>Dance</td>
<td>Health</td>
<td>Educational Technology</td>
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<tr>
<td>Early Childhood Education</td>
<td>Middle Level</td>
<td>Family &amp; Consumer Sciences</td>
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<tr>
<td>Elementary</td>
<td>Mathematics</td>
<td>Fine Arts</td>
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<tr>
<td>English as a Second Language</td>
<td>Physical Education</td>
<td>Library Media</td>
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<td>Music</td>
<td>Recreation</td>
<td>Industrial Technology</td>
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<td></td>
<td>School Psychologist</td>
<td>Visual Arts Education</td>
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<tr>
<td></td>
<td>Special Education</td>
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</table>
# Michigan Department of Education Endorsement Areas and Codes
## September 2008

### AX COMMUNICATION ARTS
- BILINGUAL EDUCATION (Con’t.)
  - YK Bilingual Arabic
  - YL Bilingual Other
  - YM Bilingual Vietnamese
  - YN Bilingual Korean
  - YO Bilingual Servo-
    Croatian/Bosnian
  - YP Bilingual Chaldean
  - YR Bilingual Chinese
  - YS Bilingual Filipino
  - YT Bilingual Japanese

### BX LANGUAGE ARTS
- BUSINESS EDUCATION*1
  - GQ Business, Management, Marketing, and Technology
  - GM Marketing Education

### BA English
- SOCIAL SCIENCE*1
  - CE Psychology
  - CF Sociology
  - CH Anthropology*4
  - CL Cultural Studies*4
  - CM Behavioral Studies*4

### BC Journalism
- SCIENCE*1
  - DA Biology
  - DC Chemistry
  - DE Physics
  - DH Earth/Space Science
  - DI Integrated Science
  - DP Physical Science

### BD Speech
- EX MATHEMATICS
- WORLD LANGUAGE & CULTURE
  - FA French
  - FB German
  - FC Greek
  - FD Latin
  - FE Russian
  - FF Spanish
  - FG Other
  - FH Italian
  - FI Polish
  - FJ Hebrew
  - FK Arabic (Modern Standard)
  - FL Japanese
  - FR Chinese (Mandarin)

### BR Reading Specialist
- SPECIAL EDUCATION
  - SA Cognitive Impairment
  - SB Speech and Language Impairment
  - SC Physical or Other Health Impairment
  - SE Emotional Impairment
  - SK Visual Impairment
  - SL Hearing Impairment
  - SM Learning Disabilities
  - SP Physical Education for Students with Disabilities
  - SV Autism Spectrum Disorder

### BT Reading
- TX TECHNOLOGY AND DESIGN
  - ZA EARLY CHILDHOOD EDUCATION*3
  - ZD MIDDLE SCHOOL*3
  - ZL MIDDLE LEVEL*3
  - ZG GENERAL EL K-5*3

### RX SOCIAL STUDIES
- CAREER AND TECHNICAL EDUCATION
  - VH Vocational Family and Consumer Sciences

### CA Economics
- VOCATIONAL NATURAL RESOURCES AND AGRISCIENCE PATHWAY
  - VA Vocational Agriscience and Natural Resources

### CB Geography
- VOCATIONAL BUSINESS, MANAGEMENT, MARKETING, & TECHNOLOGY PATHWAY
  - VB Vocational Business Services
  - VM Vocational Marketing Education
  - VZ Vocational Hospitality

### CC History
- VOCATIONAL HEALTH SCIENCES PATHWAY
  - VS Vocational Health Sciences

### CD Political Science
- VOCATIONAL ENGINEERING, MANUFACTURING, INDUSTRIAL, & TECHNOLOGY PATHWAY / VOCATIONAL ARTS AND COMMUNICATION PATHWAY
  - VT Vocational Technical

### CH Anthropology*4
- VOCATIONAL HUMAN SERVICES PATHWAY
  - VC Vocational Child Care
  - VE Vocational Cosmetology
  - VF Vocational Law Enforcement/Fire Science
  - VG Vocational Teacher Cadet

### BR Reading Specialist
- MISC Educations
  - MA Health
  - MB Physical Education
  - MD Recreation
  - MH Dance

### BT Reading
- OX FINE ARTS

### AX COMMUNICATION ARTS
- PX HUMANITIES*4
  - PR Academic Study of Religions*4
  - PS Philosophy*4

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*1 Endorsements for the Social Science group (formerly CX), the Science Group (formerly DX), the Business Education group (formerly GX), the Arts Education group (formerly LX), or the Health, Physical Education, Recreation, and Dance group (formerly MX) are no longer program options.

*2 The JX endorsement may not be offered to new candidates after the fall semester of the 2006-2007 academic year.

*3 The “Z” codes are used only by teacher preparation institutions for recommending these grade levels to the Michigan Department of Education (MDE), and do not appear on a teaching certificate.

*4 The MDE will discontinue endorsement effective January 1, 2009.
Summary of Course Requirements for Specialty Program

Institution: Northern Michigan University

Specialty Program: RX Elementary Social Studies

Program Standards: [http://www.michigan.gov/mde/1,1607,7-140-5234_5683_6368-24835--,00.html](http://www.michigan.gov/mde/1,1607,7-140-5234_5683_6368-24835--,00.html)

Program Contact Person(s): Gabe Logan Ph.D.

DIRECTIONS: On the matrix below, list the required courses for this specialty studies program. Also, indicate the number of electives and any special considerations that apply. In addition to listing the course title, course number, and course semester hours, please indicate whether the course is required for the secondary major or minor, elementary major or minor, the K-12 major, and/or an additional endorsement.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Number</th>
<th>Sem. Hours</th>
<th>Elementary Major</th>
<th>Secondary Major</th>
<th>K-12 Major</th>
<th>Additional Endorsement</th>
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<tr>
<td>Introduction to Economics</td>
<td>EC 101</td>
<td>4</td>
<td>X</td>
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<td>Microeconomic Principles</td>
<td>EC 201</td>
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<td>Macroeconomic Principles</td>
<td>EC 202</td>
<td>4</td>
<td>X</td>
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<td>Introduction to Environmental Science</td>
<td>ENV 101</td>
<td>4</td>
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<td>Human Geography</td>
<td>GC 164</td>
<td>4</td>
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<tr>
<td>History of Western Civilization to 1600</td>
<td>HS 101</td>
<td>4</td>
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<td>History of Western Civilization Since 1600</td>
<td>HS 102</td>
<td>4</td>
<td>X</td>
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<td>The United States Since 1877</td>
<td>HS 127</td>
<td>4</td>
<td>X</td>
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<tr>
<td>Introduction to Political Science</td>
<td>PS 101</td>
<td>4</td>
<td>X</td>
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<tr>
<td>American Government</td>
<td>PS 105</td>
<td>4</td>
<td>X</td>
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<td>Comparative Government and Politics</td>
<td>PS 203</td>
<td>4</td>
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<tr>
<td>State and Local Government</td>
<td>PS 309</td>
<td>4</td>
<td>X</td>
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<td>EC/GC/HS/PS electives</td>
<td>3XX</td>
<td>4</td>
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<td>Professional Education Sequence See Below</td>
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<tr>
<td>Introduction to Education</td>
<td>ED 201</td>
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<tr>
<td>Teaching for</td>
<td>ED 230</td>
<td>4</td>
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<tr>
<td>Learning in the Elementary Classroom</td>
<td>ED 301</td>
<td>3</td>
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<tr>
<td>Dimensions of American Education</td>
<td>ED 306</td>
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<tr>
<td>Children’s Literature</td>
<td>ED 307</td>
<td>2</td>
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<tr>
<td>Integrating the Arts into the Elementary Curriculum</td>
<td>ED 310</td>
<td>3</td>
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<tr>
<td>Social Studies Methods</td>
<td>ED 311</td>
<td>3</td>
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<tr>
<td>Language Arts Methods and Materials for El Teach</td>
<td>ED 312</td>
<td>3</td>
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<tr>
<td>Science Methods and Materials for El Teachers</td>
<td>ED 316</td>
<td>3</td>
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<tr>
<td>Elementary Reading Instruction I</td>
<td>ED 318</td>
<td>3</td>
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<tr>
<td>Elementary Reading Instruction II</td>
<td>ED 361</td>
<td>2</td>
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</table>

| Total number of SEMESTER HOURS required for each option offered: |
| * If the institution assigns a different type of credit, please convert to semester hours. | 36 |

Please provide descriptions for all courses contained on the above listing. Descriptions must provide enough information to show that standards could logically be met in these courses.

**Economics: Candidates must complete two of the following three courses.**
- EC 101: A survey of the basic principles of economics with an emphasis on their applications to current issues and/or historical events. Major economic structures like the banking system, government and global exchange are discussed. Supply and demand forces and their impact on these structures are addressed.
- EC 201: Analysis of price determination and resource allocation in a market economy. Particular attention is paid to individual consumer and producer choice under a variety of market structures.
- EC 202: Introduction to theories of national income, employment, prices, money, banking, taxation, government spending, public finance and international transactions.

**Geography: Candidates must complete both courses**
• ENV 101: Introduction to the basic scientific principles and concepts surrounding environmental science. Major components of the natural environment including climate, soils, geologic and hydrologic processes are described. Important ecological concepts concerning aquatic and terrestrial systems are discussed. Human influences are evaluated in terms of energy, natural resources, pollution and environmental sustainability.

• GC 164: Examination of the culturally induced differences in the world pattern of population growth, resource utilization, language, religion, agriculture, industry, political systems and environmental impact.

History: Candidates must complete either HS 101 or 102 and 127

• HS 101: Development of culture from the earliest times to 1600. Emphasis is distributed equally among the ancient, medieval and Renaissance worlds.

• HS 102: Development of culture from 1600 to the present day. Cultural, social, economic and political ideas and institutions are traced as background to the understanding of contemporary problems.

• HS 127: Survey of recent American history from reconstruction to the present. Political, economic, social, cultural, educational and diplomatic facets of the American experience are emphasized.

Political Science: Candidates will complete one of the following courses

• PS 101: Study of theory, processes and institutions of politics and government in the modern world, with an emphasis on American institutions and politics.

• PS 105: Examination of the nature and workings of American government, with references to its federal character and practical applications.

• PS 203: Introduction to political institutions and processes as seen from a comparative perspective, consideration of the political development process in modern industrial society and comparative study of public policy. European case materials are emphasized.

• PS 309: Study of state and local governments, including political systems and politics. Major emphasis is placed on the structure and operation of Michigan government and politics.

Professional Education Course Descriptions

ED 201 Introduction to Education
2 cr.
Offered: Fall, Winter, Summer
Prerequisite: Admission to teacher education.
An introduction to the field of education as a complex social, economic and political institution and career. Students will gain an understanding of their roles in shaping discussion of significant issues such as equality of opportunity, diversity and multiculturalism within the context of an ever-changing profession.

ED 230 Teaching for Learning in the Elementary Classroom
4 cr.
Offered: Fall, Winter
Prerequisite: Admission to teacher education.
Course introduces elementary education majors to developmental, behavioral, and cognitive learning theories and processes. Students develop insights into the young learner, elementary classroom practices and learning. This course includes field experience outside of class.

ED 301 Dimensions of American Education
2 cr.
Offered: Fall, Winter, Summer
Prerequisite: Admission to teacher education and ED 201.
An exploration of historical, philosophical, ethical and legal dimensions of American education. Students will begin to consider their roles as educational leaders and advocates for social justice for all students in American schools.

**ED 306 Children's Literature**
3 cr.
**Offered:** Fall, Winter
**Prerequisite:** Admission to the methods phase of teacher education.
Introduction to the literature available for children, the development of criteria for evaluating books and a study of the literature program in the elementary schools.

**ED 307 Integrating the Arts into the Elementary Curriculum**
2 cr.
**Offered:** Fall, Winter
**Prerequisite:** Admission to the methods phase of teacher education. Satisfactory completion of MU 149A and AD 310.
Examination of creative teaching and learning strategies from music, art, dance and theater to motivate students and to enhance their study of school content areas, and the development of effective strategies for integrating the arts in field settings. Includes field assignment.
ED 310 Social Studies Methods and Materials for Elementary Teachers  
3 cr.  
Offered: Fall, Winter  
**Prerequisite:** Admission to the methods phase of teacher education.
Survey of social studies curricula content, aims and objectives in the elementary and middle school. Includes the use of materials and unit method planning emphasizing basic generalizations and concepts.

ED 311 Language Arts Methods and Materials for Elementary Teachers  
3 cr.  
Offered: Fall, Winter  
**Prerequisite:** Admission to the methods phase of teacher education.
Survey of theories, research, strategies and programs for teaching the language arts and integrating them throughout the elementary school curriculum. A predetermined number of practicum hours in the elementary school are required.

ED 312 Science Methods and Materials for Elementary Teachers  
3 cr.  
Offered: Fall, Winter  
**Prerequisite:** Admission to the methods phase of teacher education and 12 credits of science.
Focus on interdisciplinary nature of science teaching and learning in K-8 classrooms. Field experience is required.

ED 316 Elementary Reading Instruction I  
3 cr.  
Offered: Fall, Winter  
**Prerequisite:** Admission to the methods phase of teacher education.
Study of the theories, processes, and strategies for teaching and assessing reading with a focus on emergent literacy and reading in the primary grades. A predetermined number of practicum hours in the elementary school are required.

ED 318 Elementary Reading Instruction II  
3 cr.  
Offered: Fall, Winter  
**Prerequisite:** ED 311 and ED 316 and admission to the methods phase of teacher education.
An in-depth consideration and extension of the content provided in Reading Instruction I. An examination of diagnostic techniques, introduction of reading subject matter materials and a practicum experience.

ED 361 Special Education and the General Classroom Teacher  
2 cr.  
Offered: Fall, Winter, Summer  
**Prerequisite:** Admission to the methods phase of teacher education.
An introductory course covering the range of handicapping conditions, designed for the elementary or secondary teacher to develop an awareness of the emotional, educational and social implications of handicaps and to formulate practical applications when working with students with exceptionalities in the general classroom.

ED 420 Teaching in the Elementary School  
11 cr.  
Offered: Fall, Winter  
Graded: S/U  
**Prerequisite:** See Eligibility for Student Teaching Placement in the “School of Education” section of this bulletin.
The opportunity for a gradual, guided introduction of students in the elementary education curriculum into assuming responsibility for teaching, together with related activities, while they learn to translate theory
into practice.

**ED 450 Seminar in Teaching**  
1 cr.  
**Offered:** Fall, Winter  
**Co-requisite:** Concurrent enrollment in student teaching.  
This course is designed to help the student teacher better understand and apply education principles and theories in full-time classroom teaching experience. It focuses on the roles, responsibilities, issues and concerns of student teachers such as classroom management, instruction, assessment, multicultural education, human relations, employment, policy and practices.

**ED 483 Educational Media Technology**  
2 cr.  
**Offered:** Fall, Winter, Summer  
**Prerequisite:** Admission to the methods phase of teacher education.  
Focuses upon the education/instructional uses of audiovisual media including computers and related technologies. Emphasis will be upon each type of hardware and software and its use as well as the subject-matter areas that most easily integrate the technology.  
Survey of early American history from the colonial period through the Civil War. Emphasis on political developments within a broad economic, social and cultural context.

**MA 150 Mathematics for the Elementary School Teacher I**  
4 cr.  
**Offered:** Fall, Winter  
**Prerequisite:** MA 100 or equivalent.  
Set theory, numeration, operations on whole numbers, integers, rational numbers and real numbers, and problem solving.

**MA 151 Mathematics for the Elementary School Teacher II**  
4 cr.  
**Offered:** Fall, Winter  
**Prerequisite:** MA 150 with a "C" or better.  
Probability and statistics, formal and informal geometry and measurement.

**MA 353 Methods and Materials in Teaching Elementary School Mathematics**  
3 cr.  
**Offered:** Fall, Winter  
**Prerequisite:** Admission to the methods phase of teacher education, MA 150 and MA 151.  
Designed to acquaint prospective elementary teachers with contemporary methods and materials employed in the teaching of mathematics in the elementary school. Field experiences are required.  
**Note:** May not be applied toward a non-teaching major or minor in mathematics.

**MSED 250 Physical Science for Educators**  
4 cr.  
**Offered:** Fall, Winter  
**Prerequisite:** Admission to elementary education or special education program.  
Basic concepts and principles of physics and chemistry that are important for elementary school teachers to understand. Discussions and hands-on laboratory experiences emphasize the use of higher-level thinking skills without the prerequisite of advanced mathematics.

**MSED 251 Life Science for Educators**  
4 cr.  
**Offered:** Fall, Winter  
**Prerequisite:** Admission to elementary education or special education program.  
Life science course for the pre-service elementary teacher. This inquiry-based laboratory course is designed to give the future teacher a strong conceptual understanding of life science content including
the structure and function of plant and animal cells, organization of living things, heredity, adaptation and evolution.

**MSED 252 Earth Science for Educators**
4 cr.
**Offered:** Fall, Winter
**Prerequisite:** Admission to elementary education or special education program.
Earth science course for the pre-service elementary teacher. This inquiry-based laboratory course is designed to give the future teacher a strong conceptual understanding of the earth science content via an earth-systems approach and highlighting concepts from the areas of geology, hydrology, meteorology and astronomy.

**AD 310 Art for the Elementary Classroom Teacher**
2 cr.
**Offered:** Fall, Winter
**Prerequisite:** Admission to teacher education.
A survey of a variety of teaching strategies to implement concepts of knowledge, values and skills in the art classroom. Special emphasis is placed on art criticism, aesthetics, art history, art production, child development, drawing, painting, paper, crayons, printmaking, fibers and lesson planning.

**HL 150 Health and Education for the Elementary School Teacher**
2 cr.
**Offered:** Fall, Winter
**Prerequisite:** Admission to teacher education.
Provides a framework for comprehensive school health education. Emphasis on health information and strategies for teaching health-promoting and disease-preventing behaviors.

**HP 200 Physical Well Being**
1 cr.
**Offered:** Fall, Winter, Summer
A lecture class on the foundations and principles of physical fitness and health. Students learn to recognize the hazards of being unfit and inactive, determine individual levels of physical fitness, and acquire the knowledge and skills to achieve and maintain a personal satisfaction level of physical fitness.

**MU 149A Music in the Elementary School I**
2 cr.
**Offered:** Fall, Winter
An introductory course for students in elementary or special education. The course covers musical concepts, skills (performing, analyzing, creating), and the appreciation needed for teaching music in the elementary classroom. Students will become familiar with music of various eras, styles and cultures.
**Note:** Course is not open to music majors.

**PE 224 Developmental Physical Education for Elementary Teachers**
2 cr.
**Offered:** Fall, Winter, Summer
A study of the developmental characteristics of children, preschool through eighth grade, and the appropriate types and kinds of physical activity that educate the child. This course is for elementary education majors only.

**Content Standards/Guidelines**
See accompanying PDF file located at:
http://webb.nmu.edu/Departments/Education/SiteSections/Accreditation/MDEApprovals/ESS/sselemstandardsfinal.pdf

**Instructional Faculty**
See accompanying PDF file located at
http://webb.nmu.edu/Departments/Education/SiteSections/Accreditation/MDEApprovals/ESS/sselemfaculty.pdf