The MSMME program emphasizes the teaching and learning of secondary mathematics and offers a combination of courses addressing key topics in mathematics content and pedagogy. The MSMME curriculum incorporates problem-based and active learning and aligns with the NCTM Principles and Standards for School Mathematics as well as the Common Core State Standards for Mathematics. The 30-credit-hour program includes four required core content courses, two required pedagogy courses from a choice of four, and a variety of elective courses. Completing the program typically requires taking a series of online courses over two academic years and attending at least one (required) summer session in Montana. Embedded in the required coursework are classroom-based research projects that address specific challenges in teaching, investigate new instructional strategies, or allow teachers to design, teach, and assess lessons in a specific content area.

Admission
Preference will be given to applicants who have:
1. An earned B.S. or B.A. degree from a mathematics or mathematics teaching program
2. Licensure in at least one state to teach secondary mathematics
3. A current position in secondary teaching
4. Two or more years of teaching experience
5. An undergraduate GPA of 3.0 or higher

Consideration will be given to other applicants as space allows:
- Secondary teachers with a significant mathematics background but not holding secondary mathematics licensure (e.g., private school teachers)
- Licensed secondary mathematics teachers not currently teaching but who intend to teach secondary mathematics in the near future
- Mathematics teachers at other levels with appropriate background and experience (reviewed on a case-by-case basis)

Special Notes:
- GRE scores are NOT required for admission to the MSMME program.
- The MSMME is approved under the Western Regional Graduate Program (WRGP), which allows teachers from Western states to pay in-state resident tuition. The participating states are Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming (http://www.montana.edu/gradschool/costs.html).
- MSMME qualifies for reduced out-of-state tuition rates as an online program at MSU (http://www.montana.edu/online/cost/).

Program Requirements
1. Core Content Courses (4 required):
   - M 518  Statistics For Teaching  3
   - M 524  Linear Algebra for Teaching  3
   - M 525  Analysis for Teaching  3
   - Choose either M517 or M527:
     - M 517  Advanced Mathematical Modeling for Teaching  3
     - M 527  Geometry for Teaching  3

2. Pedagogy Courses (2 required):
   Required:
   - M 520  Access and Equity in Mathematics Teaching
   Choose at least 1 of 3:
   - M 521  Mathematics Learning Theory for Teaching
   - M 528  Curriculum Design
   - M 529  Assessment Models and Issues

3. Elective Courses (4 required):
   Elective courses are offered on a rotating schedule or on demand.
   The pedagogy courses listed above also serve as electives.
   - M 516  Language of Mathematics for Teaching
   - M 522  Assessment of Mathematics for Teaching
   - M 523  Number Structure for Teaching
   - M 526  Discrete Mathematics for Teaching
   - M 533  History of Mathematics for Teaching
   - M 535  Technology and Mathematics for Teaching
   - M 577  Conducting Action Research in Mathematics Education

Total Credits 30

MSMME Program Portfolio
Graduates of the MSMME program must demonstrate a thorough understanding of the standards that guide their profession and how these standards undergird their own professional growth. In addition, they are expected to continuously reflect on their learning; to recognize personal gains in content knowledge and pedagogical skills; and to engage in classroom research experiences. To meet these capstone requirements, teachers build a program portfolio throughout their course of study and present a summative reflection upon completion of coursework. This portfolio, which must be publicly presented and discussed with committee members, represents the capstone event of the program and replaces a comprehensive examination.