I. Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Dept.</th>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC</td>
<td>502**</td>
<td>Introduction to Research</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDUC</td>
<td>506</td>
<td>Seminar in Teaching Mathematics</td>
<td>3</td>
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<td></td>
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<tr>
<td>EDLD</td>
<td>514</td>
<td>Aligning Curriculum, Instr &amp; Assess.</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDUC</td>
<td>545</td>
<td>Learning and Instruction</td>
<td>3</td>
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</tbody>
</table>

**EDUC 502 must be taken within the first 9 hours

II. Specialization [Middle or High-School] Track (12 credits) See reverse side of this sheet for course requirements

<table>
<thead>
<tr>
<th>Dept.</th>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>_______</td>
<td>_______</td>
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<td>MATH</td>
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</table>

III. Approved Electives (6 credits) See reverse side of this sheet for approved courses

<table>
<thead>
<tr>
<th>Dept.</th>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
<th>Grade</th>
</tr>
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</table>

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<tr>
<th>Dept.</th>
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<th>Credits</th>
<th>Semester</th>
<th>Grade</th>
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</thead>
</table>

IV. Capstone Experience (3 credits) -- Course to culminate experience in the graduate program

<table>
<thead>
<tr>
<th>Dept.</th>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC</td>
<td>695</td>
<td>Research Seminar</td>
<td>3</td>
<td></td>
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</tbody>
</table>

Candidate will be admitted provisionally if they do not possess a Master’s degree and their undergraduate cumulative GPA is less than 2.75. Provisionally-admitted candidates must complete 9 credit hours of graduate study with no grade below B to apply for full admission to the M.S.M.E. program.
II. Specialization Track - Choose one of the following tracks (12 credits)

A. High-School Track (all 4 courses must be completed)
   1. MATH 500 – Foundations of Number Theory
   2. MATH 502 – Applied Statistics
   3. MATH 507 – Seminar: Algebra
   4. MATH 508 – Seminar: Geometry

B. Middle-School Track (4 courses must be completed)
   1. One of the following two courses:
      a. MATH 541 – Conceptual Algebra for Teachers
      b. MATH 555 – The Cartesian Triad: Algebra, Geometry and Coordinates in the Plane
   2. MATH 503 – Data Analysis
   3. MATH 566 – Geometry: From Euclid to Modern Day
   4. One of the following two courses:
      a. MATH 501 – Number Theory from a Multicultural and Historical Perspective
      b. MATH 565 – Mathematical Modeling for Middle School Teachers

III. Approved Electives - Choose 2 of the following (for a total of 6 credits)

*Middle-school track: Suggested electives include:
   MATH 510 - Mathematical Reasoning
   MATH 520 - Middle-School Mathematics in a Teaching Context with Instructional Technology
   MATH 531 – Mathematical Connections for Secondary School Teachers

*High-school track: Suggested electives include:
   MATH 531 – Mathematical Connections for Secondary School Teachers
   MATH 551 - Analysis I
   MATH 561 - Abstract Algebra I
   MATH 580 - History of Mathematics

*Other electives include:
   *Any graduate-level course(s) in MATH
   *Any graduate-level course(s) in another science
   *EDUC 500 – Historical, Philosophical and Social Foundations of Education
   *EDUC 503 – Classroom Management
   *EDUC 504 – Multicultural Education
   *EDUC 508 – Seminar: Research in Human Development
   *EDUC 571 – Telecommunications in Education
   *EDUC 582 – Teaching Reading in Content Areas, Part I
   *EDUC 583 – Teaching Reading in Content Areas, Part II
   *EDUC 586 – Conflict Resolution and Peer Mediation
   *EDUC 587 – Cooperative Learning
   *EDUC 588 – Seminar: Educating Individuals with Disabilities
   *EDUC 619 – The Law and Public Education
   *EDUC 632 – Classroom Assessment
   *EDUC 689 – Multimedia in the Constructivist Classroom