## Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 611</td>
<td>Leadership Development in Mathematics Education</td>
<td>3</td>
</tr>
<tr>
<td>MTHM 505</td>
<td>Number and Operations in the Middle Grades</td>
<td>3</td>
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<tr>
<td>MTHM 506</td>
<td>Algebra and Algebraic Thinking in the Middle Grades</td>
<td>3</td>
</tr>
<tr>
<td>MTHM 507</td>
<td>Geometry for Middle-Grade Math Teachers</td>
<td>3</td>
</tr>
<tr>
<td>MTHM 508</td>
<td>Data Analysis and Probability in the Middle Grades</td>
<td>3</td>
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<tr>
<td>MTHM 509</td>
<td>Measurement in the Middle Grades</td>
<td>3</td>
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</table>

### Mathematics Education Electives

Select two of the following:

- MATH 512 Technology in the Middle Grades Mathematics Curriculum
- MATH 573 Mathematics Materials for Teachers of Mathematics
- MATH 579 Approaching School Mathematics Through Applications

Select one of the following:

- MATH 571 Curriculum Construction in Mathematics
- MATH 572 Contemporary Teaching of Mathematics
- MATH 577 Mathematics Education in the Elementary School

Select 3 credits from following that have not already been taken:

- MATH 510 Workshop in Mathematics Education I
- MATH 511 Workshop in Mathematics Education II
- MATH 512 Technology in the Middle Grades Mathematics Curriculum
- MATH 571 Curriculum Construction in Mathematics
- MATH 572 Contemporary Teaching of Mathematics
- MATH 573 Mathematics Materials for Teachers of Mathematics
- MATH 576 Research Seminar in Mathematics Education
- MATH 577 Mathematics Education in the Elementary School
- MATH 578 Special Topics in Mathematics Education
- MATH 579 Approaching School Mathematics Through Applications

### Elective

Select 3 credits of elective as approved by the Graduate Program Coordinator.

### Culminating Experience

Minimum of 24 credits, including MATH 611 and 3.0 GPA required prior to completion.

Select one of the following options:

- Compendious Examination
- Professional Portfolio

- Present and defend a Master's Thesis
- MATH 698 Master's Thesis
- Submit the completed Thesis original and one copy to the Graduate Office. See Thesis Guidelines for details.

Total Credits: 33-36