Requirements for Students Matriculating in or before Academic Year 2019-2020. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college).

Total Hours: 36 Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 5053</td>
<td>Curriculum Issues</td>
<td>3</td>
</tr>
<tr>
<td>CIED 5813</td>
<td>Educational Advocacy and Leadership</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Hours Subtotal</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**Research Requirement**

Select 6 hours from the following:  
- CIED 5073 Pedagogical Research  
- MATH 5913 Introduction to Research in Mathematics Education  
- REMS 5013 Research Design and Methodology  
- REMS 5953 Statistical Methods in Education  
- STAT 5013 Statistics for Experimenters I  
- SCFD 5913 Introduction to Qualitative Inquiry  

<table>
<thead>
<tr>
<th></th>
<th><strong>Hours Subtotal</strong></th>
<th><strong>6</strong></th>
</tr>
</thead>
</table>

**Program Core**

- SMED 5750 Seminar in Mathematics Education  
- SMED 5193 Inquiry and Problem-Based Learning in Science Education  
- or SMED 5283 Problem-Centered Learning in Mathematics

<table>
<thead>
<tr>
<th></th>
<th><strong>Hours Subtotal</strong></th>
<th><strong>6</strong></th>
</tr>
</thead>
</table>

**Areas of Emphasis**

Select 12 hours

<table>
<thead>
<tr>
<th></th>
<th><strong>Hours Subtotal</strong></th>
<th><strong>12</strong></th>
</tr>
</thead>
</table>

**Elective or Thesis**

Select 6 hours

- SMED 5050 Seminar in Integrated Mathematics and Science Applications  
- SMED 5193 Inquiry and Problem-Based Learning in Science Education  
- SMED 5223 Teaching Science in the Schools  
- SMED 5243 Environmental Education in the Curriculum  
- SMED 5253 Teaching Rational Number Concepts, Proportional Reasoning, and Classroom Interactions  
- SMED 5263 Assessment and Evaluation in School Mathematics  
- SMED 5270 Practicum in School Mathematics  
- SMED 5273 Number Concepts and Assessment at the Elementary Level (PK-6)  
- SMED 5280 Workshop in Science Education  
- SMED 5283 Problem-Centered Learning in Mathematics

<table>
<thead>
<tr>
<th></th>
<th><strong>Hours Subtotal</strong></th>
<th><strong>6</strong></th>
</tr>
</thead>
</table>

**General Graduate College Requirements**

- A minimum Grade-Point-Average of 3.00 is required  
- A minimum Grade of "C" is required in all degree applicable courses  
- No courses utilizing the Pass-No Pass grading system are permitted  
- GRAD 5082 or GRAD 5092 may not be used to meet degree requirements

**Additional Graduate College Masters Degree Requirements**

**Plan I (coursework with thesis)**

- A minimum of 30 credit hours  
- A minimum of 24 coursework credit hours comprised of:  
  - 6 research or creative component credit hours  
  - 21 in-residence credit hours (maximum of 9 transfer hours with "B" or better)  
  - 21 credit hours at 5000- or 6000-level

**Plan II (coursework without thesis)**

- A minimum of 32 credit hours  
- A maximum of 3 credit hours of research or creative component  
- A minimum of 23 in-residence credit hours (maximum of 9 transfer credit hours with "B" or better)  
- A minimum of 21 credit hours at the 5000- or 6000-level