## TEACHER EDUCATION MINOR IN MATHEMATICS, GRADES 9-12

For students in teacher education curricula other than mathematics who wish to be qualified to teach mathematics at the high school level.

To obtain an endorsement to teach mathematics in grades 9-12, students must also pass the Illinois Certification Testing System Test in Mathematics. Information and practice exams are available at [www.icts.nesinc.com](http://www.icts.nesinc.com).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>Methods courses in the teaching of mathematics</td>
<td>3</td>
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<tr>
<td>CI 434</td>
<td>Teaching Secondary Mathematics</td>
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<tr>
<td>A course covering topics in non-Euclidean geometry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 402</td>
<td>Non Euclidean Geometry</td>
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<tr>
<td>or MATH 403</td>
<td>Euclidean Geometry</td>
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At least 7 hours of work from at least two of the following areas:

**Computer Science (one course only)**

- CS 101 Intro Computing: Engrg & Sci
- CS 105 Intro Computing: Non-Tech

**Linear Algebra**

- MATH 225 Introductory Matrix Theory
- MATH 415 Applied Linear Algebra
- MATH 416 Abstract Linear Algebra

**Modern Algebra**

- MATH 413 Intro to Combinatorics
- MATH 417 Intro to Abstract Algebra
- MATH 453 Number Theory

**Applied Mathematics**

- MATH 347 Fundamental Mathematics
- MATH 285 Intro Differential Equations
- MATH 441 Differential Equations
- MATH 444 Elementary Real Analysis
- MATH 446 Applied Complex Variables

**Probability-Statistics**

- STAT 400/ MATH 463 Statistics and Probability I

**History of Calculus**

- MATH 406 History of Calculus

Information listed in this catalog is current as of 08/2024