This checksheet is for Secondary Education (Mathematics) majors in the College of Education. It should be used with the B.A.E. Secondary Education checksheet, which outlines the general studies requirements and the Initial Teacher Certification (ITC) program requirements.

Students in the College of Education have two catalog years: an ASU catalog year and a College of Education catalog year. Academic Specialization requirements are determined by a student's ASU catalog year, whereas ITC program courses are determined by the College’s alternative catalog year.

### Academic Specialization - Mathematics (36 hours)

#### Prerequisite courses

(15 hours)

<table>
<thead>
<tr>
<th>Course number &amp; title</th>
<th>Cr</th>
<th>GS</th>
<th>UD</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 270: Calculus w/Analytical Geometry I</td>
<td>4</td>
<td>MA</td>
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<tr>
<td>MAT 271: Calculus w/Analytical Geometry II</td>
<td>4</td>
<td>MA</td>
<td></td>
</tr>
<tr>
<td>MAT 272: Calculus w/Analytical Geometry III</td>
<td>4</td>
<td>MA</td>
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Choose one of the following:

- CSE 100: Principles of Programming w/ C++ 3 CS
- CSE 110: Principles of Programming w/Java 3
- CSE 200: Concepts of Computer Science 3 CS

#### Core

(21 hours)

Choose one of the following:

- MAT 370: Intermediate Calculus 3 X
- MAT 371: Advanced Calculus I 3 X

All of the following are required:

- MAT 300: Mathematical Structures 3 L X
- MAT 310: Introduction to Geometry 3 X
- MAT 342: Linear Algebra 3 X
- MTE 483: Mathematics in Secondary School 3 X
- STP 420: Introductory Applied Statistics 3 CS X

Choose one of the following:

- MAT 443: Introduction to Abstract Algebra 3 X
- MAT 445: Theory of Numbers 3 X

### Teaching methods

The following required courses are considered part of your ITC program:

<table>
<thead>
<tr>
<th>Course number &amp; title</th>
<th>Cr</th>
<th>GS</th>
<th>UD</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTE 482: Methods of Teaching Mathematics in Secondary Schools</td>
<td>3</td>
<td>X</td>
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<tr>
<td>MTE 494: Advanced Methods of Teaching Mathematics in Secondary Schools (MTE 482 is a prerequisite)</td>
<td>3</td>
<td>X</td>
<td></td>
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</tbody>
</table>