# Preliminary Degree Check

## Major in Mathematics-Secondary Education (MA32)

<table>
<thead>
<tr>
<th>Name:</th>
<th>PID:</th>
<th>Admit quarter:</th>
<th>Graduating Quarter:</th>
<th>Major GPA:</th>
</tr>
</thead>
</table>

## Mathematics (24 units total):  

1. Math 20A Calc for Sci & Eng  
2. Math 20B Calc for Sci & Eng  
4. Math 20D Intro to Diff. Eqns  
5. Math 20E/31CH Vector Calculus  
6. Math 20F/31AH Linear Algebra

### One of the following is recommended:

- CSE 8A-AL-B Intro to Comp Sci: Java
- MAE 9 C/C++ Programming

## Upper-Division Requirements - 13 courses

1. Math 109 Mathematical Reasoning  
2. Math 104A Number Theory  
3. Math 163 History of Mathematics  
4. EDS 129A-B-C Pre-Internship Practicum in Teaching  
5. One of the following:
   - Math 155A Computer Graphics OR  
   - Math 170A Intro to Num Analysis: Linear Algebra OR  
   - Math 187 Introduction to Cryptography  
6. One of the following:
   - Math 180A Introduction to Probability OR  
   - Math 183 Statistical Methods (duplication of credit with Math 180A)  
7. One of the following:
   - Math 150A Differential Geometry OR  
   - Math 151 Topics in Geometry OR  
   - Math 153 Geometry for Secondary Teachers OR  
   - Math 190 Introduction to Topology  
8. One of the following:
   - Math 100A Abstract Algebra OR  
   - Math 102 Applied Linear Algebra OR  
   - Math 103A Modern Applied Algebra  
9. One of the following:
   - Math 140A Foundations of Real Analysis  
   - Math 142A Introduction to Analysis  
10. One sequence from the following list:

### Course Selections

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 109</td>
<td>4</td>
<td>(4 units)</td>
</tr>
<tr>
<td>Math 104A</td>
<td>4</td>
<td>(4 units)</td>
</tr>
<tr>
<td>Math 163</td>
<td>4</td>
<td>(4 units)</td>
</tr>
<tr>
<td>EDS 129A</td>
<td>4</td>
<td>(4 units)</td>
</tr>
<tr>
<td>EDS 129B</td>
<td>4</td>
<td>(4 units)</td>
</tr>
<tr>
<td>EDS 129C</td>
<td>4</td>
<td>(4 units)</td>
</tr>
<tr>
<td>Math</td>
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<td>(4 units)</td>
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## Mathematics Department Evaluation

Comments:

Advisor: ___________________  
Date: ___________________

18.  
2010-2011