Suggested 4-year program plan  
Mathematics Major (Emphasis in Secondary Education)

**Note**: This recommended schedule includes only the mathematics program requirements. It does not include other degree requirements for graduation (e.g., University Studies Program requirements or COEHS requirements).

<table>
<thead>
<tr>
<th>Year</th>
<th>Core Courses</th>
<th>Other Required Courses</th>
<th>Elective(s)</th>
</tr>
</thead>
</table>
| Freshman | Math 171 (4 cr)  
Math 172 (4 cr) |                                            |                                                                                                                                            |
| Sophomore | Math 222 (3 cr)  
Math 256 (3 cr)  
Math 273 (4 cr)  
Math 301 (3 cr) | Math 295 (3 cr) | **Geometry** (4 cr):  
Math 331 and Math 334  
**Analysis** (3 cr):  
Math 467 or Math 480  
**Algebra** (3 cr):  
Math 346, Math 347, Math 348, or Math 349 | 3 additional credits not already taken, chosen from the Upper Level Course list (see below) |
| Junior  | Math 295 (3 cr) | **Capstone** (3 cr): Math 495 |                                                                                                                                            |
| Senior  | Math 295 (3 cr) |                                            |                                                                                                                                            |

**Upper Level Course List**

**Algebra**:  
- Math 346 Linear Algebra  
- Math 347 Intro to Group Theory  
- Math 348 Intro to Ring Theory  
- Math 349 Intro to Number Theory

**Analysis**:  
- Math 375 Vector & Complex Analysis  
- Math 467 Intro to Real Analysis  
- Math 480 Intro to Topology

**Applied**:  
- Math 352 Computing Math w/ Apps  
- Math 355 Intro to Numerical Analysis  
- Math 356 Linear Numerical Analysis  
- Math 371 Differential Equations  
- Math 376 Partial Diff. Eq. & BVPs

**Statistics**:  
- Math 302 Intermediate Statistical Methods  
- Math 304 Intro to Nonparametric Methods  
- Math 305 Stats for Quality & Productivity  
- Math 381 Stochastic Modeling  
- Math 385 Applied Regression Analysis  
- Math 386 Linear Statistical Models  
- Math 401 Mathematical Statistics