# Mathematics/Computer Science Joint Major

## Required MATH/CMSC Courses

### Example Schedule

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 152/153: Calculus I/II</td>
<td>MATH 153/201: Calculus II/III</td>
</tr>
<tr>
<td>CMSC 111: Programming I</td>
<td>CMSC 112: Programming II</td>
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<tr>
<td></td>
<td>CMSC 145: Computer Systems</td>
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#### Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>MATH 203: Linear Algebra</td>
<td>(MATH 201: Multivariable Calculus)</td>
</tr>
<tr>
<td>(MATH 204: Differential Equations)</td>
<td>MATH 207: Number Theory</td>
</tr>
<tr>
<td>CMSC 120: Information Systems Design</td>
<td>MATH 212: Discrete Structures</td>
</tr>
<tr>
<td>CMSC 131: Intro Data Communications</td>
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#### Junior Year

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<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>MATH 304: Abstract Algebra I</td>
<td>(MATH 215/216: Intro to Probability)</td>
</tr>
<tr>
<td>CMSC 202: Data Structures</td>
<td>CMSC 305: Operating Systems</td>
</tr>
<tr>
<td></td>
<td>(CMSC 220: Database Systems Design)</td>
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<td>(CMSC 308: Operating Systems)</td>
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#### Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>MATH 390: History of Mathematics*</td>
<td>MATH 209: Numerical Analysis</td>
</tr>
<tr>
<td>(CMSC 231: Client/Server Programming)</td>
<td>CMSC 390: Technology and Society*</td>
</tr>
<tr>
<td>(CMSC 311: Architecture and Assembly)</td>
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</tbody>
</table>

*Only one of MATH 390 or CMSC 390 is required.*

Note: Most courses in the Junior and Senior year are offered every other year.