## Required COSC Courses (31 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
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<tbody>
<tr>
<td>COSC 236</td>
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<tr>
<td>COSC 237</td>
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<tr>
<td>COSC 290</td>
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<tr>
<td>COSC 336</td>
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<tr>
<td>COSC 350</td>
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<tr>
<td>COSC 412</td>
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<tr>
<td>COSC 439</td>
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</tr>
<tr>
<td>COSC 455</td>
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</tr>
<tr>
<td>COSC 457</td>
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## Core Requirements (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>COMM 131</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COSC 418</td>
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<td></td>
</tr>
<tr>
<td>ENGL 317</td>
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</tbody>
</table>

## Science Requirement (8 Units)

Two lab science courses taken from physics, biology or chemistry, which must be accepted in that major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
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<tbody>
<tr>
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## Required MATH Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>MATH 263</td>
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<tr>
<td>MATH 273</td>
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</tr>
<tr>
<td>MATH 274</td>
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<tr>
<td>MATH 330</td>
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</tbody>
</table>

## Elective Math/Science Courses (7-8 Units)

Either two math courses (selected from the following) or one math course and one science course accepted in that major for a total of 7 or 8 credits.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 265</td>
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<tr>
<td>MATH 275</td>
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<tr>
<td>MATH 314</td>
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<td>MATH 369</td>
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<td>MATH 374</td>
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<td>MATH 377</td>
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<tr>
<td>MATH 378</td>
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<td>MATH 435</td>
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<tr>
<td>MATH 436</td>
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</tr>
<tr>
<td>MATH 437</td>
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<tr>
<td>MATH 451</td>
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</table>

Sci:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

Total Math/Science Elective Units Taken

<table>
<thead>
<tr>
<th>Units</th>
<th>Grade</th>
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<tbody>
<tr>
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</table>

**TOTAL UNITS:** 88-89

All courses for the major must be completed with a C or better grade.
Computer Science with Software Engineering Track
Prerequisites for Catalog Year 2014-2015 and later

Approved Sciences
ASTR 161, ASTR 162, BIOL 201, BIOL 202, BIOL 205, BIOL 207, BIOL 309, CHEM 131 + CHEM 131L, CHEM 132 + CHEM 132L, CHEM 210, CHEM 323, CHEM 331, GEOL 121, PHYS 241, PHYS 242, PHYS 243, PHYS 251, PHYS 252, PHYS 335

Math Prerequisites
MATH 263 Discrete Math MATH 119 or 4 yrs HS math MATH 374 Differential Equations MATH 274
MATH 265 Elem. Linear Algebra MATH 211 or 273 MATH 377 Mathematical Models MATH 265, 274, COSC 236
MATH 273 Calculus I MATH 119 MATH 378 Scientific Modeling and Simul MATH 274, COSC 236
MATH 274 Calculus II MATH 273 MATH 435 Numerical Analysis I MATH 265, 274, COSC 236
MATH 275 Calculus III MATH 274 MATH 437 Operations research MATH 331
MATH 330 Intro to Statistical Methods MATH 274 MATH 439 Computational Probability Models MATH 263 or 267
MATH 369 Intro to Abstract Algebra MATH 265, 267, 274 MATH 451 Graph Theory MATH 275, 265