# COMPUTER SCIENCE, B.S.

## Major in Computer Science, BS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 140</td>
<td>Discrete Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 161</td>
<td>Introduction to Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 162</td>
<td>Introduction to Programming 2</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 330</td>
<td>Programming Languages</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 340</td>
<td>Computational Models</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 362</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 366</td>
<td>Database Systems</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 370</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 380</td>
<td>Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 420</td>
<td>Software Engineering</td>
<td>4</td>
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</tbody>
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Electives - Choose 12 hours from:

- CSCI 300 Co-Op Ed Experience in CSCI
- Any CSCI 375-499 course(s)

Note: This requirement may not be satisfied with CSCI 380 or CSCI 420.

Up to 4 credits of Co-op (CSCI 300, 400, 500) are allowed. CSCI 406 Topics courses may be selected if it is 4 credits.

**Total Hours**: 52

## Req Related for Computer Science, BS

### MATHEMATICS

Calculus I or Honors Calculus - Choose 1 of the following: 4-5

- MATH 161 Calculus 1
- MATH 163H Honors Calculus 1
- MATH 235 Survey of Statistics 3
- MATH 304 Matrix Algebra & Applications 4

Directed Math Elective - Choose 3 hours from: 3

- MATH 211 Calculus 2
- MATH 236 Elements of Statistics 2
- PHIL 312 Mathematical Logic

### NATURAL/PHYSICAL SCIENCES

undefined - Choose 6 hours from: 6

- BIOL 100 General Biology
- BIOL 211 Concepts of Zoology
- BIOL 221 Concepts of Botany
- CHEM 111 Introductory Chemistry 1
- CHEM 112 Introductory Chemistry 2
- ESCI 221 Physical Geology
- ESCI 222 Historical Geology
- ESCI 241 Meteorology
- ESCI 245 Environmental Meteorology
- ESCI 261 Introduction to Oceanography
- PHYS 131 Physics 1 with Algebra
- PHYS 231 Physics 1 with Calculus
- PHYS 132 Physics 2 with Algebra
- PHYS 232 Physics 2 with Calculus

At least 6 credits of Natural/Physical Science courses. If selecting Physics choose 131 OR 231, 132 OR 232.

**Total Hours**: 20-21