### BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>ENL 101 Critical Writing &amp; Reading I</td>
<td>R L C</td>
</tr>
<tr>
<td>EGR 111 Intro. Engineering &amp; Computing</td>
<td>2 3 3</td>
</tr>
<tr>
<td>ECE 160 Foundations Comp. Engineering I</td>
<td>3 2 4</td>
</tr>
<tr>
<td>MTH 153 Calculus Applied Science &amp; Eng. I</td>
<td>4 0 4</td>
</tr>
<tr>
<td>University Studies Elective</td>
<td>3 0 3</td>
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<tr>
<td>University Studies Elective</td>
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<tr>
<td><strong>Total Credits</strong>: 17</td>
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#### SOPHOMORE YEAR

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<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>ECE 201 Circuit Theory I</td>
<td>R L C</td>
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<tr>
<td>ECE 256 Foundations of Cyber Security</td>
<td>3 1½ 3½</td>
</tr>
<tr>
<td>ECE 260 Digital Logic &amp; Computer Design</td>
<td>3 1½ 3½</td>
</tr>
<tr>
<td>MTH 213 Calculus Applied Science &amp; Eng. III</td>
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<tr>
<td>PHY 112 Physics for Science &amp; Eng. II</td>
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#### JUNIOR YEAR

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<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>ECE 311 Digital Electronics</td>
<td>R L C</td>
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<tr>
<td>ECE 370 Design/Impl. RT Embedded RMS</td>
<td>2 3 3</td>
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<tr>
<td>ECE 388 Embedded Design Project</td>
<td>2 3 3</td>
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<tr>
<td>MTH 331 Probability</td>
<td>3 0 3</td>
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<tr>
<td>University Studies Elective</td>
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#### SENIOR YEAR

<table>
<thead>
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<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>ECE 457 Design Project I</td>
<td>R L C</td>
</tr>
<tr>
<td>ECE 320 Discrete-Time Linear Systems</td>
<td>3 0 3</td>
</tr>
<tr>
<td>Technical Elective</td>
<td>3 0 3</td>
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<tr>
<td>University Studies Elective</td>
<td>3 0 3</td>
</tr>
<tr>
<td><strong>Total Credits</strong>: 12</td>
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**TOTAL CREDITS = 122**

R = Recitation (hours)  
L = Laboratory (hours)  
C = Number of Credits

1. This course meets the University Studies Cluster 1E requirement: Foundation for Learning through Engagement.
2. This course meets the University Studies Cluster 1D requirement: Mathematics.
3. See University Studies requirements (Clusters 3 and 4).
4. This course meets the University Studies Cluster 2A requirement: Science of the Natural World.
5. This course meets the University Studies Cluster 1C requirement: Intermediate Writing.
6. Must be chosen from the University Studies cluster 2B (Science in the Engaged Community) approved list and be a BIO, BNG, CHM, MAR, or MLS course; or a PHY course numbered above 150. Requirement may not be satisfied by independent study, seminars or internships.
7. This course meets the University Studies Cluster 5B requirement: Learning through Engagement.
8. This course meets the University Studies Cluster 5A requirement: Capstone Study.
9. Must be taken from approved list of courses.