# Bachelor of Science in Computer Science - Computer Engineering Track

## Summary of Graduation Requirements

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Credits</th>
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<tbody>
<tr>
<td>General Education Core</td>
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<tr>
<td>Major Requirements</td>
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<tr>
<td>Electives</td>
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<td>Other Requirements</td>
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<td><strong>Total Credit Hours</strong></td>
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## Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SEM 101</td>
<td>Spartan Seminar 101 and Spartan Seminar 102</td>
<td>2</td>
</tr>
<tr>
<td>CSC 101</td>
<td>Introduction to the Computer Science Profession</td>
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</tr>
<tr>
<td>CSC 170</td>
<td>Computer Programming I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 170L</td>
<td>Computer Programming Laboratory I</td>
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</tr>
<tr>
<td>MTH 153</td>
<td>College Algebra &amp; Trigonometry</td>
<td>3</td>
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<tr>
<td>ENG 101</td>
<td>College English I</td>
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<tr>
<td>PED 100</td>
<td>Fundamentals of Fitness for Life</td>
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<tr>
<td>CSC 260</td>
<td>Computer Programming II</td>
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<tr>
<td>CSC 260L</td>
<td>Computer Programming II Laboratory</td>
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<td>CSC 268</td>
<td>Computer Organization</td>
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<tr>
<td>MTH 184</td>
<td>Calculus I</td>
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<tr>
<td>HED 100</td>
<td>Personal and Community Health</td>
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<tr>
<td>ENG 102</td>
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<tbody>
<tr>
<td>SEM 201</td>
<td>Spartan Seminar 201</td>
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</tr>
<tr>
<td>CSC 372</td>
<td>Data Structures</td>
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</tr>
<tr>
<td>PHY 160</td>
<td>University Physics I and University Physics Laboratory I</td>
<td>5</td>
</tr>
<tr>
<td>MTH 251</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>XXX XXX</td>
<td>Social Science Elective</td>
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<tr>
<td>HIS 101</td>
<td>History of World Societies II</td>
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<tr>
<td>HIS 103</td>
<td>United States History Since 1865</td>
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<tr>
<td>ECN 200</td>
<td>Basic Principles of Economics</td>
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<tr>
<td>BUS 175</td>
<td>Introduction to Business &amp; Entrepreneurship</td>
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</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to the Social Sciences</td>
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<tr>
<td>PHY 161</td>
<td>University Physics II and University Physics Laboratory II</td>
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<tr>
<td>MTH 252</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
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<tbody>
<tr>
<td>CSC 295</td>
<td>Java Applications Programming</td>
<td>3</td>
</tr>
<tr>
<td>ENG 285</td>
<td>Public Speaking</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Credits</strong></td>
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<th>Course</th>
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<tbody>
<tr>
<td>EEN 201</td>
<td>Electrical Network Theory I and Electrical Network Theory I Laboratory</td>
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</tr>
<tr>
<td>MTH 351</td>
<td>Probability &amp; Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 371</td>
<td>Discrete Mathematical Structures</td>
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<tr>
<td>CSC 292</td>
<td>Unix and C Programming</td>
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<tr>
<td>CSC 361</td>
<td>Survey of Programming Languages</td>
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<tr>
<td>MTH 372</td>
<td>Differential Equations</td>
<td>3</td>
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<tr>
<td>EEN 231</td>
<td>Digital Electronics Logic Design and Digital Logic Design Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CSC 380</td>
<td>Software Engineering</td>
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<tr>
<td>ENG 303</td>
<td>Professional &amp; Technical Writing</td>
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<tr>
<td>EEN 203</td>
<td>Electronic Principles</td>
<td>3</td>
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<tbody>
<tr>
<td>EEE 431</td>
<td>Microcontrollers</td>
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<tr>
<td>CSC 275</td>
<td>Fundamentals of Cybersecurity</td>
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<tr>
<td>XXX XXX</td>
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<tr>
<td>CSC 468</td>
<td>Computer Architecture</td>
<td>3</td>
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<tr>
<td>CSC 498</td>
<td>Computer Science Seminar I</td>
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<tr>
<td>XXX XXX</td>
<td>Social Science Cultural Elective</td>
<td>3</td>
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<td>XXX XXX</td>
<td>Humanities Cultural Elective</td>
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<td>CSC XXX</td>
<td>Computer Science Elective 300 level or above</td>
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<tr>
<td>CSC 430</td>
<td>Data Communications</td>
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<td>CSC 464</td>
<td>Operating Systems</td>
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<tr>
<td>CSC 499</td>
<td>Computer Science Seminar II</td>
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