## 2013-14 Degree Plan
### Computer Science, BS

**School of Engineering: Department of Computer Science (4 Year Plan)**

### Term 1
**Hours Towards Degree:** 17

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101: Composition I: Exposition</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>MATH 162: Calculus I</td>
<td>4</td>
<td>B-</td>
<td></td>
</tr>
<tr>
<td>CS 152L: Computer Programming Fundamentals</td>
<td>3</td>
<td>B-</td>
<td></td>
</tr>
<tr>
<td>Lab Science</td>
<td>4</td>
<td>C</td>
<td></td>
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<tr>
<td>Humanities</td>
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**Term Hours:** 17

### Term 2
**Hours Towards Degree:** 34

<table>
<thead>
<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>ENGL 102: Composition II: Analysis and Argument</td>
<td>3</td>
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<tr>
<td>MATH 163: Calculus II</td>
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<td>CS 251L: Data Organization</td>
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<tr>
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<tr>
<td>CS 261: Mathematical Foundations of Computer Science</td>
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**Term Hours:** 17

### Term 3
**Hours Towards Degree:** 51

<table>
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<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>ECE 238L: Computer Logic Design</td>
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<tr>
<td>CS 241L: Data Organization</td>
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<tr>
<td>CS 293: Social and Ethical Issues in Computing</td>
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<tr>
<td>MATH 314: Linear Algebra with Applications or 321: Linear Algebra</td>
<td>3</td>
<td>C</td>
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<tr>
<td>Lab Science</td>
<td>3</td>
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<tr>
<td>Social Science</td>
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**Term Hours:** 17

### Term 4
**Hours Towards Degree:** 67

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<th>Course Description</th>
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<tbody>
<tr>
<td>CS 351L: Design of Large Programs</td>
<td>4</td>
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<tr>
<td>Lab Science</td>
<td>3</td>
<td>C</td>
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<tr>
<td>Writing and Speaking</td>
<td>3</td>
<td>C</td>
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<tr>
<td>Social Science</td>
<td>3</td>
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<tr>
<td>Fine Arts</td>
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**Term Hours:** 16
## Degree Plan Details

**Term 5**

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CS 375: Introduction to Numerical Computing</td>
<td>3</td>
<td>C</td>
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<tr>
<td>STAT 345: Elements of Mathematical Statistics and Probability Theory</td>
<td>3</td>
<td>C</td>
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<tr>
<td>CS 361L: Data Structures and Algorithms</td>
<td>3</td>
<td>C</td>
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<tr>
<td>Humanities</td>
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<td>C</td>
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<td>Minor or General Elective</td>
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**Term Hours:** 18

**Term 6**

<table>
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<th>Course</th>
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<th>Notes</th>
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<tbody>
<tr>
<td>CS 357L: Declarative Programming</td>
<td>3</td>
<td>C</td>
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</tr>
<tr>
<td>CS 362L: Data Structures and Algorithms II</td>
<td>3</td>
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<tr>
<td>CS Elective</td>
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<tr>
<td>Second Language</td>
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<tr>
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**Term Hours:** 15

**Term 7**

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<th>Course</th>
<th>Hours</th>
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<tr>
<td>CS 341L: Introduction to Computer Architecture and Organization</td>
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<td>C</td>
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<tr>
<td>CS Elective</td>
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<td>B</td>
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<tr>
<td>Minor or General Elective</td>
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**Term Hours:** 15

**Term 8**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CS 460: Software Engineering</td>
<td>3</td>
<td>C</td>
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<tr>
<td>CS 481: Computer Operating Systems</td>
<td>3</td>
<td>C</td>
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<tr>
<td>Minor or General Elective</td>
<td>9</td>
<td>C</td>
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**Term Hours:** 15

**Crucial course:** A crucial course is a predictor for success in obtaining this degree. It should be taken in the term indicated in order to ensure timely progress to graduation.

**Degree Plan Notes**

- Minimum graduation GPA = 2.00. Keep in mind that minimum grades on roadmap are for individual coursework only. Students must maintain a minimum of a 2.0 cumulative GPA for admission to and graduation from the College of Art & Science.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>CHEM 121</td>
<td>General Chem with Lab</td>
</tr>
<tr>
<td>CHEM 122</td>
<td>General Chem with Lab</td>
</tr>
<tr>
<td>CHEM 123L</td>
<td>General Chemistry I Lab</td>
</tr>
<tr>
<td>CHEM 124L</td>
<td>General Chemistry II Lab</td>
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<tr>
<td>EPS 101</td>
<td>Intro Geology How Earth Works</td>
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<tr>
<td>EPS 105L</td>
<td>Physical Geology Lab</td>
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<tr>
<td>EPS 201L</td>
<td>Earth History Lab</td>
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<tr>
<td>BIOL 201</td>
<td>Molecular Cell Biology</td>
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<tr>
<td>BIOL 202</td>
<td>Genetics</td>
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<tr>
<td>ASTR 270</td>
<td>General Astronomy</td>
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<td>ASTR 270L</td>
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<td>PHYC 160</td>
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<td>General Physics Lab</td>
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<tr>
<td>PHYC 161</td>
<td>General Physics</td>
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<td>PHYC 161L</td>
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