Roadmap to the Four-Year BSEE Program (effective Fall ’15)

Freshman Year
Fall (16)
- EE 110 (1) Intro. to Engineering Lab
- PHYS 116 (1) Physics I Lab
- CS 115 (4) Program I
- MATH 161 (4) Calculus I
- GE (3)
- ENGL 101 (4)

Spring (16)
- PHYS 114 (4) Intro. to Physics I
- MATH 211 (4) Calculus II
- EE 112 (1) Fund. of Logic Design Lab

Sophomore Year
Fall (16)
- PHYS 214 (4) Intro. Physics II
- MATH 241 (4) Lin Algebra/ Differential Eqn
- MATH 261 (4) Multivariable Calculus
- EE 220 and 221 (4) Elect. Circuits w/lab
- EE 230 and 231 (4) Electronics I w/lab

Spring (16)
- CS 115
- MATH 211
- PHYS 214
- ES 210 (4) Digital Circ. & Logic Design w/lab

Junior Year
Fall (16)
- EE 314 (4) Adv. Program, Modeling & Simulation
- EE 345 (3) Engg Probability & Statistics
- EE 230 and 231 (4) Electronics II
- MATH 261 and PHYS 214

Spring (14)
- EE 310 and 310L (4) Micropr. & System Design w/lab
- GE (4)
- GE (4)

Senior Year
Fall (14)
- MATH 211
- PHYS 214
- EE 314
- ES 210
- CS 115

Spring (12)
- EE 400 (3) Linear Systems Theory
- EE 442 and 442L (4) Analog & Digital Commun. w/lab
- EE 443 (3) Intro. Optical Fiber Commun.
- EE 465 and 465L (3) Intro. Networking w/lab

- Approved Technical Elective I (3)
- Approved Technical Elective II (3)

* Indicates prerequisite for this course is senior standing in major (completion of all 300-level courses)
** With permission only
Arrow: Indicates prerequisite
Arrow with C: Indicates Co-requisite
Numbers in parentheses indicate semester units

The student must complete each course in Electrical Engineering with a grade of C or higher.
# Recommended GE Curriculum for the BSEE Majors

**Effective Fall 2015**

<table>
<thead>
<tr>
<th>Area</th>
<th>Subjects</th>
<th>Suggested GE Courses</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>Courses</td>
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<tr>
<td><strong>A. Communication and Critical Thinking (8)</strong></td>
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<tr>
<td>A.2.</td>
<td>Fund. of Communication</td>
<td>ENGL 101</td>
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<tr>
<td>A.3.</td>
<td>Critical Thinking</td>
<td>ES 210</td>
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<tr>
<td><strong>B. Natural Sciences and Mathematics (12)</strong></td>
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<tr>
<td>B.1.</td>
<td>Physical Sciences</td>
<td>PHYS 114 and PHYS 116</td>
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<td>B.2.</td>
<td>Biological Sciences</td>
<td>ANTH 201 or BIOL 115</td>
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<td>B.4.</td>
<td>Mathematical Concepts &amp; Quantitative Reasoning</td>
<td>MATH 161</td>
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<tr>
<td><strong>C. The Arts and Humanities (12)</strong></td>
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<tr>
<td>C.1.</td>
<td>Fine Arts, Theatre, Dance and Music and Film</td>
<td>Select from the GE C.1 list in the SSU Catalog</td>
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<tr>
<td>C.2.</td>
<td>Literature, Philosophies, Values</td>
<td>Select from the GE C.2 list in the SSU Catalog</td>
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<tr>
<td>C.3</td>
<td>Comparative Perspectives And/or Foreign</td>
<td>Select from the GE C.3 list in the SSU Catalog</td>
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<tr>
<td><strong>D. Social Sciences (15)</strong></td>
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<tr>
<td>D.1.</td>
<td>Individual and Society</td>
<td>Select from the GE D.1 list in the SSU Catalog</td>
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<tr>
<td>D.2.</td>
<td>World History and Civilization</td>
<td>Select from the GE D.2 list in the SSU Catalog</td>
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<tr>
<td>D.3.</td>
<td>United States History</td>
<td>Select from the GE D.3 list in the SSU Catalog</td>
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<td>D.4.</td>
<td>US Constitution and CA State and Local Govt.</td>
<td>POLS 200</td>
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<tr>
<td>D.5.</td>
<td>Contemporary International Perspectives</td>
<td>Select from the GE D.5 list in the SSU Catalog</td>
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<td><strong>E. The Integrated Person (3)</strong></td>
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<tr>
<td>E.</td>
<td>The Integrated Person</td>
<td>Select SCI 220</td>
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</table>

For more info, visit [http://www.sonoma.edu/advising/ge/](http://www.sonoma.edu/advising/ge/).