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
- GE (6)

Sophomore Year
Fall (16)
- EE 220 and 221 (4) Elect. Circuits w/ lab
- PHYS 214 (4) Intro. Physics II
- MATH 241 (4) Lin Algebra with Apps in Differential Equations
- MATH 261 (4) Multivariable Calculus
- ENGL 101 (4)

Spring (16)
- EE 230 and 231 (4) Electronics I w/lab
- ES 210 (4) Digital Circ. & Logic Design w/lab
- MATH 314 (4) Adv. Program, Modeling & Simulation
- EE 314 (4)
- GE (4)

Junior Year
Fall (16)
- EE 330 (2) Electronics II
- EE 310 and 310L (4) Micropr. & System Design w/lab
- EE 345 (3) Engg Probability & Statistics
- EE 492 (1) Senior Design Project Planning
- *EE 493 (3) Senior Design Project

Spring (14)
- EE 430. (3) Electromag. Theory & Applic
- EE 442 and 442L (4) Analog & Digital Commun. w/ lab
- EE 444 and 444L (4) Intro. Networking w/lab
- EE 465 and 465L (3) Intro. Networking w/lab
- *EE 492 (1) Senior Design Project Planning
- *EE 497 (1) Engg. Science Colloquium

Senior Year
Fall (14)
- EE 110 (1) Intro. to Engineering Lab
- PHYS 214 (4) Intro. Physics II
- MATH 261 & PHYS 214
- CS 115
- EE 493 (3) Senior Design Project

Spring (12)
- EE 443 (3) Intro. Optical Fiber Commun.
- *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
# Recommended GE Curriculum for the BSEE Majors

**Effective Fall 2015**

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