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

Freshman Year
Fall (16)

- **EE 110 (1)**
  Intro to Engineering Lab

- **CS 115 (4)**
  Program I

- **MATH 161 (4)**
  Calculus I

- **MATH 211 (4)**
  Calculus II

- **ENGL 101 (4)**
  Fundamentals of English

Spring (16)

- **PHYS 116 (1)**
  Physics I Lab

- **PHYS 114 (4)**
  Intro to Physics I

- **MATH 221 (4)**
  Calculus II

- **EE 220 and 221 (4)**
  Elect Circuits w/ lab

- **CS 115 (4)**
  Intro to Computer Science

Sophomore Year
Fall (16)

- **PHYS 214 (4)**
  Intro Physics II

- **PHYS 214 (4)**
  Intro Physics II

- **MATH 241 (4)**
  Linear Algebra w/ Applications in Differential Equations

- **MATH 241 (4)**
  Linear Algebra w/ Applications in Differential Equations

- **ENGL 102 (4)**
  Fundamentals of Writing

Spring (16)

- **EE 230 and 231 (4)**
  Electronics I w/ lab

- **EE 320 (4)**
  Electronics II

- **EE 320 (4)**
  Electronics II

- **CS 115 (4)**
  Intro to Computer Science II

- **CS 115 (4)**
  Intro to Computer Science II

Junior Year
Fall (16)

- **EE 310 (2)**
  Electronics II

- **EE 310 (2)**
  Electronics II

- **EE 310 (2)**
  Electronics II

- **EE 310 (2)**
  Electronics II

- **ENGL 102 (4)**
  Fundamentals of Writing

Spring (14)

- **EE 310 (2)**
  Electronics II

- **EE 400 (3)**
  Linear Systems Theory

- **EE 400 (3)**
  Linear Systems Theory

- **EE 400 (3)**
  Linear Systems Theory

- **ENGL 102 (4)**
  Fundamentals of Writing

Senior Year
Fall (14)

- **EE 430 (3)**
  Electromag. Theory & Applic

- **EE 430 (3)**
  Electromag. Theory & Applic

- **EE 430 (3)**
  Electromag. Theory & Applic

- **EE 430 (3)**
  Electromag. Theory & Applic

- **ENGL 102 (4)**
  Fundamentals of Writing

Spring (12)

- **EE 443 (3)**
  Intro. Optical Fiber Commun.

- **EE 443 (3)**
  Intro. Optical Fiber Commun.

- **EE 443 (3)**
  Intro. Optical Fiber Commun.

- **EE 443 (3)**
  Intro. Optical Fiber Commun.

- **ENGL 102 (4)**
  Fundamentals of Writing

*: 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

Students must complete each EE course with a grade of C (2.0) or higher and each supporting course with a grade of C- (1.7) or higher in order to pass. Otherwise, the course has to be re-taken.

$: MATH 241: Linear Algebra with Applications in Differential Equations, MATH 261: Multivariable Calculus

2/26/2019
# 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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<tbody>
<tr>
<td>A. Communication and Critical Thinking (8)</td>
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<tr>
<td>A.2. Fund. of Communication</td>
<td>ENGL 101</td>
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<tr>
<td>A.3. Critical Thinking</td>
<td>ES 210</td>
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<td>B. Natural Sciences and Mathematics (12)</td>
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<tr>
<td>B.1. Physical Sciences</td>
<td>PHYS 114 and PHYS 116</td>
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<td>4+1</td>
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<tr>
<td>B.2. Biological Sciences</td>
<td>BIOL 115</td>
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<tr>
<td>B.4. Mathematical Concepts &amp; Quantitative Reasoning</td>
<td>MATH 161</td>
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<tr>
<td>C. The Arts and Humanities (12)</td>
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<tr>
<td>C.1. 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. 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. Comparative Perspectives And /Or Foreign</td>
<td>Select from the GE C.3 list in the SSU Catalog</td>
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<td>D. Social Sciences (15)</td>
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<tr>
<td>D.1. 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. 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. United States History</td>
<td>Select from the GE D.3 list in the SSU Catalog</td>
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<td>D.4. US Constitution and CA State and Local Govt.</td>
<td>POLS 200</td>
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<td>D.5. Contemporary International Perspectives</td>
<td>Select from the GE D.5 list in the SSU Catalog</td>
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<td>E. The Integrated Person (3)</td>
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<tr>
<td>E. The Integrated Person</td>
<td>Select SCI 220</td>
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</table>

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