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

Freshman Year
Fall (16) Spring (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)

Sophomore Year
Fall (16) Spring (16)

- PHYS 114 (4) Intro. to Physics I
- PHYS 214 (4) Intro. Physics II
- MATH 221 (4) Calculus II
- MATH 241 (4) Calculus III
- MATH 261 (4) Calculus IV
- EE 220 and 221 (4) Elect. Circuits w/ lab
- ES 210 (4) Digital Circ. & Logic Design w/lab
- MATH 211 (4) Calculus II
- ES 210 (4) Digital Circ. & Logic Design w/lab
- CS 115
- EE 112 (1) Fund. of Logic Design Lab
- PHYS 214 (4) Intro. Physics II
- MATH 241 (4) Calculus III
- MATH 261 (4) Calculus IV
- MATH 261 & PHYS 214

Junior Year
Fall (16) Spring (14)

- PHYS 214 (4) Intro. Physics II
- ES 210 (4) Digital Circ. & Logic Design w/lab
- MATH 261 (4) Calculus IV
- MATH 261 & PHYS 214
- EE 230 and 231 (4) Electronics I w/lab
- EE 310 (4) Linear Systems Theory
- EE 310 and 310L (4) Micropr. & System Design w/lab
- EE 314 (4) Adv. Program, Modeling & Simulation
- EE 345 (3) Engg Probability & Statistics
- EE 330 (2) Electronics II
- EE 400 (3) Linear Systems
- EE 430. (3) Electromag. Theory & Applic
- EE 430 (3) Electromag. Theory & Applic
- EE 422 (3) Analog & Digital Commun. w/ lab
- EE 442 and 442L (4) Analog & Digital Commun. w/ lab
- EE 442 and 442L (4) Analog & Digital Commun. w/ lab
- EE 442 (4) Analog & Digital Commun. w/ lab
- EE 400 (3) Linear Systems
- EE 400 (3) Linear Systems
- EE 400 (3) Linear Systems
- EE 442 (4) Analog & Digital Commun. w/ lab
- EE 443 (3) Intro. Optical Fiber Commun.
- EE 443 (3) Intro. Optical Fiber Commun.
- EE 443 (3) Intro. Optical Fiber Commun.
- **EE 493 (3) Senior Design Project

Senior year
Fall (14) Spring (12)

- 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)
- GE (6)
- GE (4)
- GE (4)
- GE (4)
- GE (4)
- GE (3)
- GE (3)
- GE (6)
- GE (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

4/12/2017
# Recommended GE Curriculum for the BSEE Majors

## Effective Fall 2015

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<th>Area</th>
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### A. Communication and Critical Thinking (8)
- A2. Fund. of Communication | ENGL 101 | 4 | 4 |
- A3. Critical Thinking | ES 210 | 4 | 4 |

### B. Natural Sciences and Mathematics (12)
- B1. Physical Sciences | PHYS 114 and PHYS 116 | 4+1 | 5 |
- B2. Biological Sciences | ANTH 201 or BIOL 115 | 3 | 3 |
- B4. Mathematical Concepts & Quantitative Reasoning | MATH 161 | 4 | 4 |

### C. The Arts and Humanities (12)
- C1. Fine Arts, Theatre, Dance and Music and Film | Select from the GE C.1 list in the SSU Catalog | 4 | 4 |
- C2. Literature, Philosophies, Values | Select from the GE C.2 list in the SSU Catalog | 4 | 4 |
- C3. Comparative Perspectives And /Or Foreign | Select from the GE C.3 list in the SSU Catalog | 4 | 4 |

### D. Social Sciences (15)
- D1. Individual and Society | Select from the GE D.1 list in the SSU Catalog | 3 | 3 |
- D2. World History and Civilization | Select from the GE D.2 list in the SSU Catalog | 3 | 3 |
- D3. United States History | Select from the GE D.3 list in the SSU Catalog | 3 | 3 |
- D4. US Constitution and CA State and Local Govt. | POLS 200 | 3 | 3 |
- D5. Contemporary International Perspectives | Select from the GE D.5 list in the SSU Catalog | 3 | 3 |

### E. The Integrated Person (3)
- E. The Integrated Person | Select SCI 220 | 3 | 3 |

3/23/2017 For more info, visit [http://www.sonoma.edu/advising/ge/](http://www.sonoma.edu/advising/ge/).