Roadmap to the Four-Year BSEE Program (effective Spring ’20)

Freshman Year
Fall (15)
EE 110 (1) Intro. to Engineering Lab
CS 115 (4) Program. I
MATH 161 (4) Calculus I
A1 ENGL 101 (3)

Spring (16)
PHYS 116 (1) Physics I Lab
PHYS 114 (4) Intro. to Physics I
MATH 211 (4) Calculus II
B2 BIO 115 E SCI 220 GE (6)

Sophomore Year
Fall (15)
EE 220 and 221 (4) Elect. Circuits w/ lab
PHYS 214 (4) Intro. Physics II
$ MATH 241 (4) or MATH 261 (4)
C1 GE (3)

Spring (15)
EE 230 and 231 (4) Electronics I w/lab
ES 210 (4) Digital Circ. & Logic Design w/lab
$ MATH 241 (4) or MATH 261 (4)
C2 GE (3)

Junior Year
Fall (15)
EE 320 and 321 (4) Electronics II
ES 310 (2) Linear Systems Theory
MATH 261 & PHYS 214

Spring (14)
ES 314 (4) Adv. Program, Modeling & Simulation
EE 310 and 310L (4) Micropr. & System Design w/ lab

Senior Year
Fall (14)
EE 330 (2) Electromag. Theory & Appic
EE 345 (3) Engg. Probability & Statistics

Spring (16)
EE 340 (3) Intro. Optical Fiber Commun.
EE 400 (3) Linear Systems Theory

* 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

1/2/2020
FOR ENGINEERING MAJORS: Take the specified courses in RED for each area!
Do not take any other courses than shown below in Lower Division A & B!

The specific courses that meet each GE Subarea are listed in the class schedule in MYSSU and can be searched for using various filters. If students select a course worth more units than the required minimum in a GE Subarea, unless otherwise noted, three units will be applied towards the GE Subarea and any additional units will be applied as electives or towards other appropriate GE Subareas.

<table>
<thead>
<tr>
<th>Lower-Division GE (minimum 39 units) 1</th>
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<tbody>
<tr>
<td>A. English Language Communication &amp; Critical Thinking (minimum 9 units)</td>
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<tr>
<td>- A1. Oral communication (minimum 3 units) ES 104</td>
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<tr>
<td>- A2. Written Communication (minimum 3 units) ENGL 101</td>
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<tr>
<td>- A3. Critical Thinking (minimum 3 units) ES 210 (Offered in Spring only)</td>
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<tr>
<td>B. Scientific Inquiry &amp; Quantitative Reasoning (minimum 9 units)</td>
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<tr>
<td>- B1. Physical Science (minimum 3 units) PHYS 114</td>
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<tr>
<td>- B2. Life Science (minimum 3 units) BIOL 115</td>
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<tr>
<td>- Laboratory Activity 2</td>
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<tr>
<td>- B4. Mathematics / Quantitative Reasoning (minimum 3 units) MATH 161</td>
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<tr>
<td>C. Arts &amp; Humanities (minimum 9 units)</td>
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<tr>
<td>- C1. Arts (minimum 3 units)</td>
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<tr>
<td>- C2. Humanities (minimum 3 units)</td>
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<tr>
<td>- Additional Arts or Humanities (minimum 3 units)</td>
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<tr>
<td>D. Social Sciences (minimum 9 units) 3</td>
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<tr>
<td>- POLS 200 (3 units) + HIST 251 or HIST 252 (3 units)</td>
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<tr>
<td>E. Lifelong Learning &amp; Self Development (minimum 3 units)</td>
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<tr>
<th>Upper-Division GE (minimum 9 units) 4</th>
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<tbody>
<tr>
<td>Upper-division area B. Scientific Inquiry &amp; Quantitative Reasoning (minimum 3 units) EE 345</td>
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<tr>
<td>Upper-division area C. Arts &amp; Humanities (minimum 3 units)</td>
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<tr>
<td>Upper-division area D. Social Sciences (minimum 3 units)</td>
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Seawolf Studies Graduation Requirements 5

Graduation Writing Assessment Requirement 6

American Institutions 7

- American History HIST 251 or HIST 252 (3 units)
- The United States Constitution POLS 200 (3 units)
- California State and Local Government POLS 200 (3 units)

Critical Race Studies (minimum 1 course)

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1 Lower-division GE is numbered 100 – 299.
2 Associated with a Physical or Life Science. May be embedded in a lecture course or taught as a separate 1-unit course.
3 Complete the lower-division social science courses in at least two different disciplines.
4 Upper-division GE is numbered 300 – 499 and must be taken in-residence within the CSU system.
5 Seawolf Studies courses may meet general education, major, minor, and/or university elective requirements.
6 The GWAR is to be completed after a student earns 60 units via a WIC course or the WEPT exam.
7 American Institutions is typically met through two 3-unit courses.

Updated June 2019