Four-Year BSEE Program Roadmap (Catalog Terms Spring 22 & Prior)

First Year
Fall (15)
EE 110 (1) Intro Engineering Lab or EE 112 (1)
CS 115 (4) Program. I
MATH 161 (4) Calculus I [B4 (3)]
PHYS 116 (1) Physics I Lab [B3]
ES 104 [A1 (3)]
ENGL 101 [A2 (3)]

Spring (16)
PHYS 114 (4) Physics I [B1(3)]
PHYS 214 (4) Physics II
MATH 211 (4) Calculus II
MATH 241 (4) Lin. Algebra
EE 112 (1) Fund. Logic Design Lab or EE 110 (1)

Sophomore Year
Fall (16)
EE 220 & 221 (4) Elect. Circuits & Lab
EE 210 (4) Digital Logic Design & Lab [A3 (3)]
EE 112 & EE 210
MATH 261 (4) Calculus III

Spring (15)
MATH 241 (4) Lin. Algebra
MATH 261 (4) Calculus III
EE 282 (1) Modeling & Simulation Lab

Junior Year
Fall (16)
EE 230 & 231 (4) Electronics I & Lab
EE 334 & 334L (4) µElectronic Circuits & Lab
EE 345 (3) Engineering Probability & Statistics [UD-B (3)]

Spring (14)
EE 400 (3) Linear Systems Theory
EE 430 (3) Electromag. Theory & App.
EE 442 & 442L (4) Analog & Digital Comm. & Lab

Senior Year
Fall (16)
EE 465 & 465L (3) Networking & Lab
EE Electives (5)

Spring (12)
EE 443 (3) Optical Fiber Comm.
*EE 497 (1) Engineering Colloquium
EE 493 (3) Senior Design II [UD-C (3)]

An arrow indicates a prerequisite, while an arrow with “CO” indicates a corequisite.
Numbers in parentheses indicate semester units (credit hours). For example, “MATH 161 (4) Calculus I [B4 (3)]” indicates a 4-unit course, with 3 units applied to GE area B4.
All EE courses require a "C" or better, while the supporting courses (CS, MATH, & Sciences) require a "C-" or better.
*Prerequisite: Completion of all lower division (100 & 200) EE courses and a minimum of 16 units upper division (300 & 400) EE courses.

Color Notations:
EE Courses
Math & Sciences
Programming
General Education (GE)

4/6/2023