Four-Year BSEE Program Roadmap (Effective Fall '22)

First Year
Fall (15)
- EE 110 (1) Intro Engineering Lab or EE 112 (1)
- PHYS 116 (1) Physics I Lab [B3]
- ENGL 101 [B2 (3)]
- ES 104 [A1 (3)]
- BIOL 115 [B2 (3)]
- MATH 161 (4) Calculus I [B4 (3)]
- MATH 211 (4) Calculus II
- MATH 241 (4) Lin. Algebra
- C1 GE (3)
- D GE (3)
- E GE (3)
- CS 115 (4) Program. I

Spring (16)
- PHYS 114 (4) Physics I [B1 (3)]
- PHYS 214 (4) Physics II
- PHYS 210 (4) Digital Logic Design & Lab [A3 (3)]
- CS 210 (1) Modeling & Simulation Lab
- MATH 261 (4) Calculus III
- MATH 261 (4) Engineering Probability & Statistics [UD-B (3)]
- MATH 241 (4) Lin. Algebra

Second Year
Fall (16)
- PHYS 110 (4) Physics I Lab
- PHYS 214 (4) Physics II
- EE 210 (4) Digital Logic Design & Lab [A3 (3)]
- EE 220 & 221 (4) Elect. Circuits & Lab
- EE 230 & 231 (4) Electronics I & Lab
- EE 230 & 231 (4) µElectronics Circuits & Lab
- MATH 241

Spring (15)
- EE 230 & 231 (4) µElectronics Circuits & Lab
- EE 230 & 231 (4) Elect. Circuits & Lab
- EE 220 & 221 (4) Elect. Circuits & Lab
- MATH 261 & PHYS 214
- MATH 261

Junior Year
Fall (16)
- EE 334 & 334L (4) Electromag. Theory & Lab
- EE 334 & 334L (4) Electromagnetic Theory & Lab
- EE 400 (3) Linear Systems Theory
- EE 400 (3) Linear Systems Theory

Spring (14)
- EE 430 (3) Electromag. Theory & Lab
- EE 422 & 442L (4) Analog & Digital Comm. & Lab
- EE 422 & 442L (4) Analog & Digital Communication & Lab
- EE 310 & 310L (4) µProcessor & System Dsgn. & Lab
- EE 310 & 310L (4) µProcessor & System Design & Lab

Senior Year
Fall (15)
- EE 443 (3) Optical Fiber Comm.
- EE 443 (3) Optical Fiber Communication
- EE 465 & 465L (3) Networking & Lab
- EE 465 & 465L (3) Networking & Lab
- EE 492 (1) Senior Design I
- EE 492 (1) Senior Design I

Spring (13)
- EE Electives (6)
- EE Electives (6)
- *EE 497 (1) Engineering Colloquium
- *EE 497 (1) Engineering Colloquium
- EE 493 (3) Senior Design II [UD-C (3)]
- EE 493 (3) Senior Design II [UD-C (3)]
- EE Electives (5)
- EE Electives (5)

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)

6/9/2022