Electrical Engineering Minor
2021-2022 Curriculum Chart

Elective Requirements:
In addition to the above, EE minors must complete at least 15 units of upper-division or graduate-level engineering courses from one track. Most, if not all, elective courses have additional pre-requisites. They are subject to change frequently. Please visit http://courses.soe.ucsc.edu/ to ensure you have met them.

Communications, Signals, Systems & Controls
- ECE 118 Intro to Mechatronics
- ECE 130/L / 230 Optical Fiber Communication
- ECE 136 Engineering Electromagnetics
- ECE 141 / 241 Feedback Control Systems
- ECE 152 / 252 Wireless Communications
- ECE 153 / 250 Digital Signal Processing
- ECE 237 Image Processing and Reconstruction
- ECE 251 Principles of Digital Communications
- ECE 253/ CSE 208 Introduction to Information Theory
- ECE 255 Error Control Coding
- ECE 256 Statistical Signal Processing
- CSE 150/L Intro Computer Networks

Electronics & Optics
- ECE 104 Bio-electronics
- ECE 118 Intro to Mechatronics
- ECE 121 Microcontroller System Design
- ECE 130/L / 230 Optical Fiber Communication
- ECE 136 Engineering Electromagnetics
- ECE 141 / 241 Feedback Control Systems
- ECE 157/L RF Hardware Design/Lab
- ECE 167/L Sensing and Sensor Technologies
- ECE 172 / 221 Advanced Analog Circuits
- ECE 173/L High Speed Digital Design
- ECE 175/L Energy Generation and Control
- ECE 176/L Energy Conversion and Control
- ECE 177/L Power Electronics
- ECE 178 Device Electronics
- ECE 180J Advanced Renewable Energy Sources
- ECE 201 Introduction to Nanotechnology
- ECE 203 Nanofabrication of Materials
- ECE 231 Optical Electronics

*Students who complete Math 21 & 24 (or the equivalents) in lieu of AMS 10 and 20 are strongly encouraged to take a MATLAB self-paced tutorial prior to enrolling in ECE 101/L and ECE 103/L. Tutorials can be found here: https://its.ucsc.edu/software/matlab.html

http://undergrad.soe.ucsc.edu • bsoe@advising@ucsc.edu• (831) 459-5840 • 10/1/2021
### Electrical Engineering Minor
#### 2021-2022 Curriculum Chart

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**Student Name:**

**Staff Advisor:**

**Faculty Advisor:**