Electrical Engineering Minor
2020-2021 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/L 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 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/L 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 Integrated 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 Nanocharacterization 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
### Electrical Engineering Minor
#### 2020-2021 Curriculum Chart

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Staff Advisor: 
Faculty Advisor: