Electrical Engineering B.S. Degree
2017-2018 Curriculum Chart

Elective Requirements:
In addition to the above, EE majors must complete 4 additional upper-division courses (minimum of 3 courses from one track). Unlisted graduate-level courses may be used to fulfill an elective requirement with prior department approval. Most, if not all, elective courses have additional prerequisites. They are subject to change frequently. Please visit [http://courses.soe.ucsc.edu](http://courses.soe.ucsc.edu) to ensure you have met them.

Communications, Signals, Systems & Controls
EE 130/L / 230 Optical Fiber Communication
EE 136 Engineering Electromagnetics (Strongly Recommended)
EE 152 / 252 Intro to Wireless Signals/Systems
EE 153 / 250 Digital Signal Processing
EE 154 / 241 Feedback Control Systems
EE 251 Principles of Digital Communications
EE 253 Introduction to Information Theory
EE 261 Error Control Coding
EE 262 Statistical Signal Processing
EE 264 Image Processing and Reconstruction
CMPE 118/L Intro to Mechatronics
CMPE 150/L Intro Computer Networks
CMPE 251 Error-Control Coding

EE 129A Engineering Design Project I
(EE 171: CE100/L) satisfies Ethics and 2 units of Communications in the Discipline

EE 129B Engineering Design Project II
(EE 129A and one of the following: EE157/L, CE118/L or CE121/L; instructor permission)

EE 129C Engineering Design Project III
(EE 129B)

EE 129D Engineering Design Project IV
(EE 129B)

EE 157/L RF Hardware Design/Lab
EE 157/L Energy Conversion and Control

EE 172 / 221 Advanced Analog Integrated Circuits
EE 173/L High Speed Digital Design

EE 231 Optical Electronics

EE 231 Optical Electronics

EE 213 Nanocharacterization of Materials

EE 213 Nanocharacterization of Materials

EE 219 Senior Thesis
(EE Department Approval)
(10 units; students must take EE157/L or CE118/L to fulfill design experience)

Exit Requirements:
1. Complete an Exit Survey.
2. Attend an Exit Interview with a designated EE faculty.
3. Maintain a 2.5 cumulative GPA in all required and elective courses for the major, OR submit a Portfolio for Department Review, OR submit a Senior Thesis with Department Approval.

http://ua.soe.ucsc.edu • advising@soe.ucsc.edu • (831) 459-5840
## Electrical Engineering B.S. Degree
### 2017-2018 Curriculum Chart

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### Key Legend

- Course Prerequisite
- * Students with no prior programming experience are strongly recommended to take course CMPE 3, CMPS 5J, CMPS 5P, CMPS 10 or equivalent before taking this class.
- * Preferred, but students can substitute with CMPS 12A/L or CMPS 5J and 11.
- ** Students who complete Math 21 and Math 24 (or the equivalents) in lieu of AMS 10 & 20 are strongly encouraged to take the MATLAB self-paced tutorial prior to enrolling in EE 101/L.
- *** Satisfies 1 unit of Communications in the Discipline
- ^ EE 80T recommended, but students can substitute EE 80T with CMPE 80H or TIM 80C.

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**Student Name:**

**Staff Advisor:**

**Faculty Advisor:**