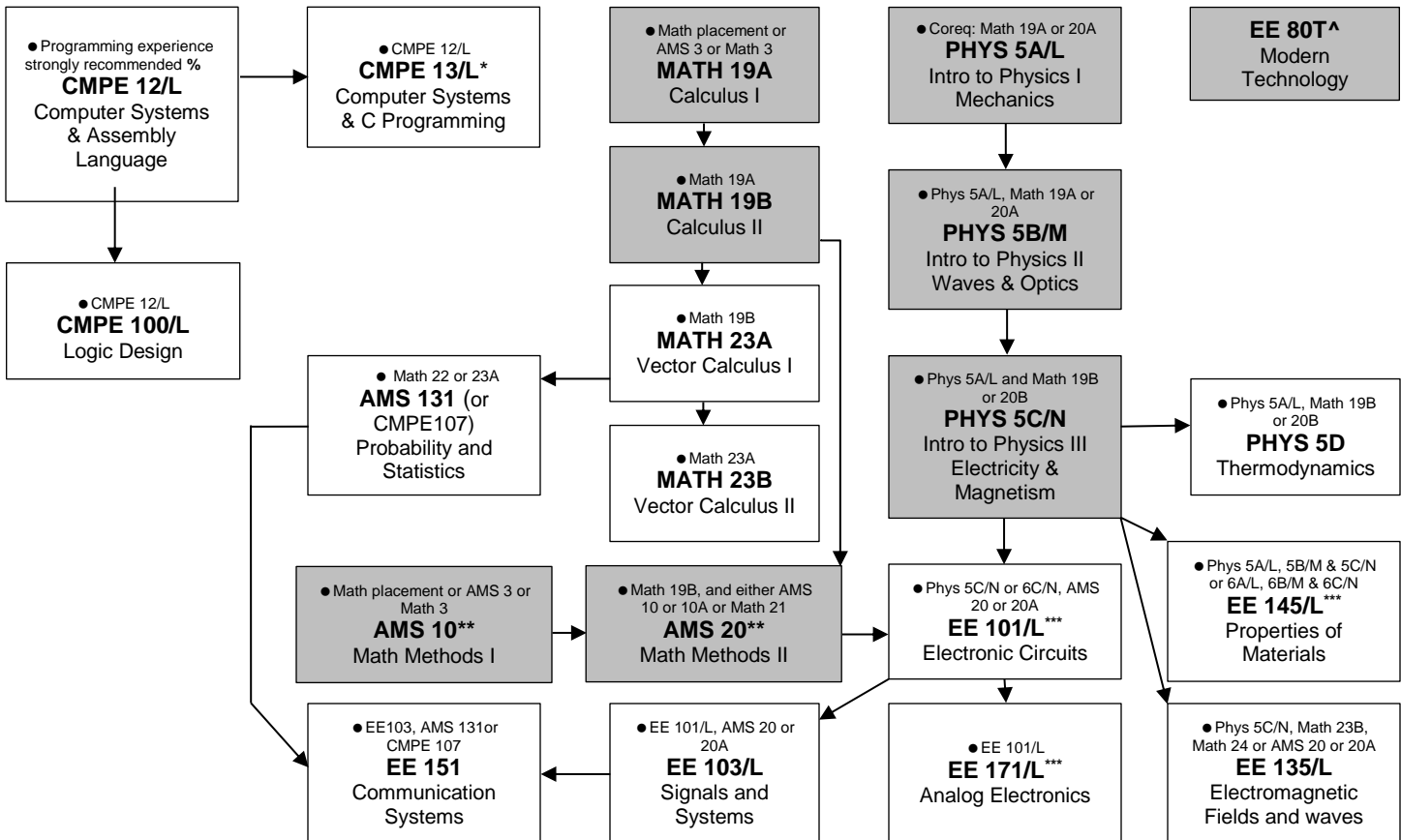


# Electrical Engineering B.S. Degree 2017-2018 Curriculum Chart



### 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/> to ensure you have met them.**

Communications, Signals, Systems & Controls	Electronics & Optics
EE 130/L / 230 Optical Fiber Communication EE 136 Engineering Electromagnetics ( <i>Strongly Recommended</i> ) 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 104 Bio-electronics & Bio-instrumentation EE 115 Intro to MEMS Design EE 130/L / 230 Optical Fiber Communication EE 136 Engineering Electromagnetics EE 154 / 241 Feedback Control Systems EE 157/L RF Hardware Design/Lab EE 172 / 221 Advanced Analog Integrated Circuits EE 173/L High Speed Digital Design EE 175/L Energy Generation and Control EE 176/L Energy Conversion and Control EE 177/L Power Electronics EE 178 Device Electronics EE 180J Advanced Renewable Energy Sources EE 211 Introduction to Nanotechnology EE 213 Nanocharacterization of Materials EE 231 Optical Electronics CMPE 118/L Intro to Mechatronics CMPE 121/L Microprocessor System Design CMPE 167/L Sensing and Sensor Technologies

Senior Design Project (Choose EE129B/C or EE195):	
<b>EE 129A</b> Engineering Design Project I (● EE171; CE100/L) satisfies Ethics and 2 units of Communications in the Discipline	
<b>EE 129B</b> Engineering Design Project II (● EE 129A and one of the following: EE157/L, CE118/L, or CE121/L; instructor permission)	<b>EE 195</b> Senior Thesis (● Department Approval) (10 units, & students must take EE157/L or CE118/L to fulfill design experience)
<b>EE 129C</b> Engineering Design Project III (● EE 129B)	

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.

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

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

**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.

Student Name:

Staff Advisor:

Faculty Advisor: