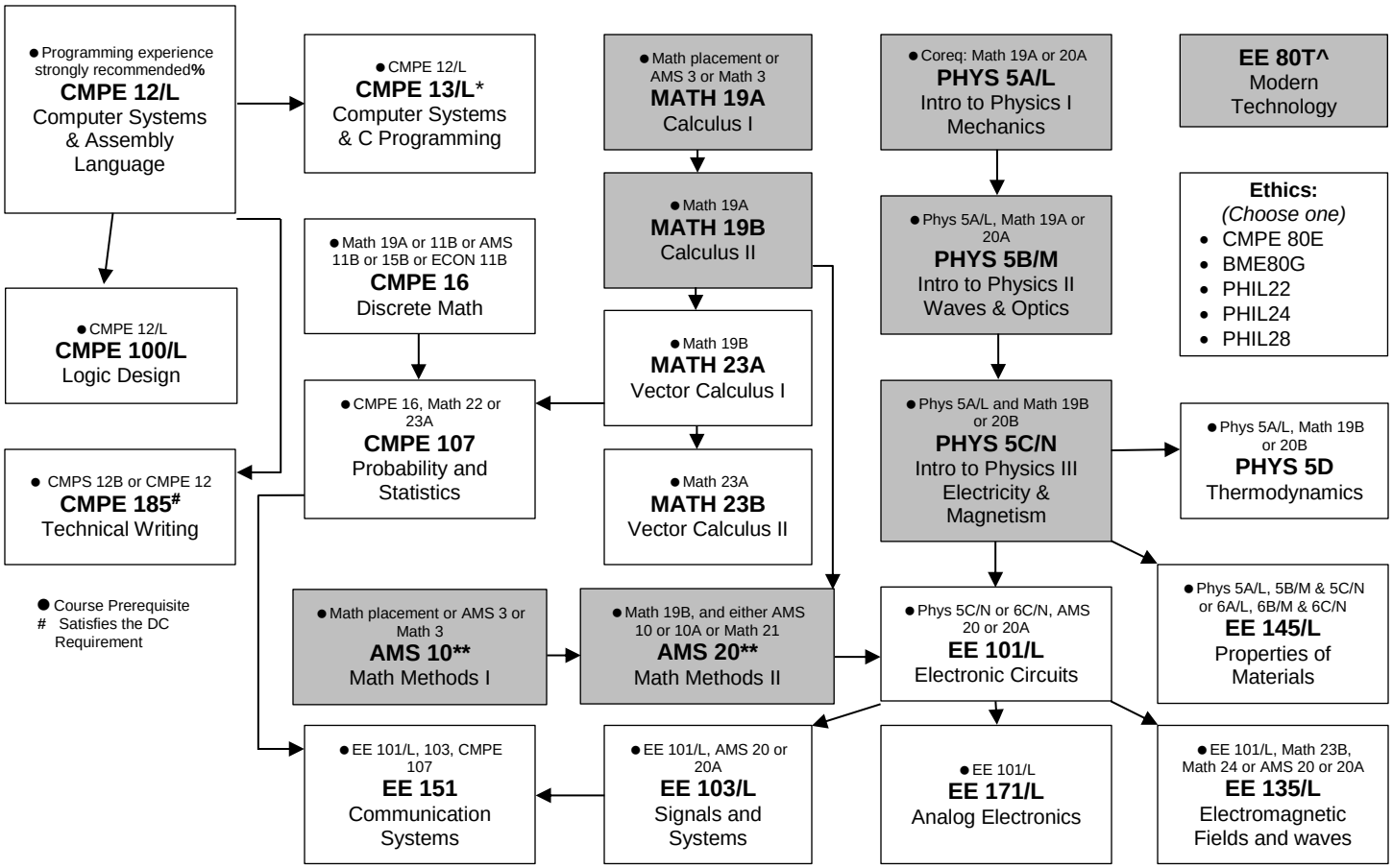
Electrical Engineering B.S. Degree
2016-2017 Curriculum Chart



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 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	Electronics & Optics
EE 130/L / 230 Optical Fiber Communication	EE 104 Bio-electronics & Bio-instrumentation
EE 136 Engineering Electromagnetics	EE 115 Intro to MEMS Design
EE 152 / 252 Intro to Wireless Signals/Systems	EE 130/L / 230 Optical Fiber Communication
EE 153 / 250 Digital Signal Processing	EE 136 Engineering Electromagnetics
EE 154 / 241 Feedback Control Systems	EE 154 / 241 Feedback Control Systems
EE 251 Principles of Digital Communications	EE 157/L RF Hardware Design/Lab
EE 253 Introduction to Information Theory	EE 172 / 221 Advanced Analog Integrated Circuits
EE 261 Error Control Coding	EE 173/L High Speed Digital Design
EE 262 Statistical Signal Processing	EE 175/L Energy Generation and Control
EE 264 Image Processing and Reconstruction	EE 176/L Energy Conversion and Control
CMPE 118/L Intro to Mechatronics	EE 177/L Power Electronics
CMPE 150/L Intro Computer Networks	EE 178 Device Electronics
CMPE 251 Error-Control Coding	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 one):

EE 129A Engineering Design Project I
(● EE171; CE100/L, 185; instructor permission)

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 195 Senior Thesis
(● Department Approval)
(12 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.

% 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.
^ EE 80T recommended, but students can substitute EE 80T with CMPE 80H or TIM 80C.

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Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Notes:

- The School of Engineering has different major declaration deadlines than the UCSC Academic/Administrative calendar. Our deadlines and process can be found on: https://ua.soe.ucsc.edu/declare-y**our-major**
- All students admitted to a School of Engineering major, or seeking admission to a major, must take all courses required for that major for a letter grade.
- Courses in which you receive a grade of C-, D+, D, or D- earn credit toward graduation, but cannot be used to satisfy a major requirement or a general education requirement, and cannot satisfy a prerequisite for another course.

Student Name:

Staff Advisor:

Faculty Advisor: