

Elective Requirements - In addition to the above, EE majors must complete 4 additional upper-division elective 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 pre-reqs. They are subject to change frequently please visit http://www.soe.ucsc.edu/courses to ensure you have met them.

Communications, Signals, Systems, & Controls Track 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 AMS 147 Computational Methods & Applications		Electronics & Optics Track EE 104 Bio-electronics & Bio-instrumentation EE 115 Intro to MEMS Design EE 130/L / 230 Optical Fiber Communication EE 136 Engineering Electromagnetics (Strongly Recommended) EE 154 / 241 Feedback Control Systems EE 157/L RF Hardware Design/Lab EE 1772 / 221 Advanced Analog Integrated Circuits EE 175/L Energy Generation and Control EE 176/L Energy Conversion and Control EE 176/L Energy Conversion and Control EE 177/L Power Electronics EE 211 Introduction to Nanotechnology EE 213 Nanocharacterization of Materials EE 231 Optical Electronics EE 180J Advanced Renewable Energy Sources CMPE 118/L Intro to Mechatronics CMPE 118/L Intro to Mechatronics CMPE 121/L Microprocessor System Design (Strongly Recommended) EE 173/L High Speed Digital Design	
Senior Design Project (Choose One)		AMS 147 Computational N	Methods & Applications
EE129A Engineering Design Project I (•EE 171 and CE 100 and 185; permission of the Instructor) EE129B Engineering Design Project II (•EE129A and one of the following: EE 157, CE 118 or CE121; permission of the instructor) EE129C Engineering Design Project III (•EE129B)	EE 195 Senior Thesis (12 units; and students must take EE 157 or CE 118 to fulfill design experience) (● Department Approval)		and CE 100 and previous or concurrent enrollment in CE 185 and previous or concurrent enrollment in at least one of the following: EE 157, CE 118 or CE121 and permission of instructor) EE 123B Engineering Design Project II (• EE 123A)
Exit Requirements: 1. Complete an Exit Survey 2. Attend an Exit Interview with a designated EE	Submit a F	2.5 cumulative GPA in all r Portfolio for Department Rev Senior Thesis with Departme	
* Preferred but students can substitute CMPS 12A/L or ** Students who complete Math 21 and Math 24 (or the		0 and 20 are strongly encourag	ed to take the Matlab self-paced tutorial prior to enrolling

in EE 101/L. [†] Satisfies the DC requirement

Electrical Engineering B.S. Degree Curriculum Chart: 2013-2014

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Approved List of Ethics Courses: CMPE 80E Engineering Ethics PHIL 22 Intro to Ethical Theory

PHIL 24 Intro to Contemporary Ethics: Contemporary Moral Issues PHIL 28 Environmental Ethics

BME 80G or PHIL 80G Bioethics in the 21st Century: Science, Business, and Society

STUDENT'S NAME:

STAFF ADVISOR:

FACULTY ADVISOR: