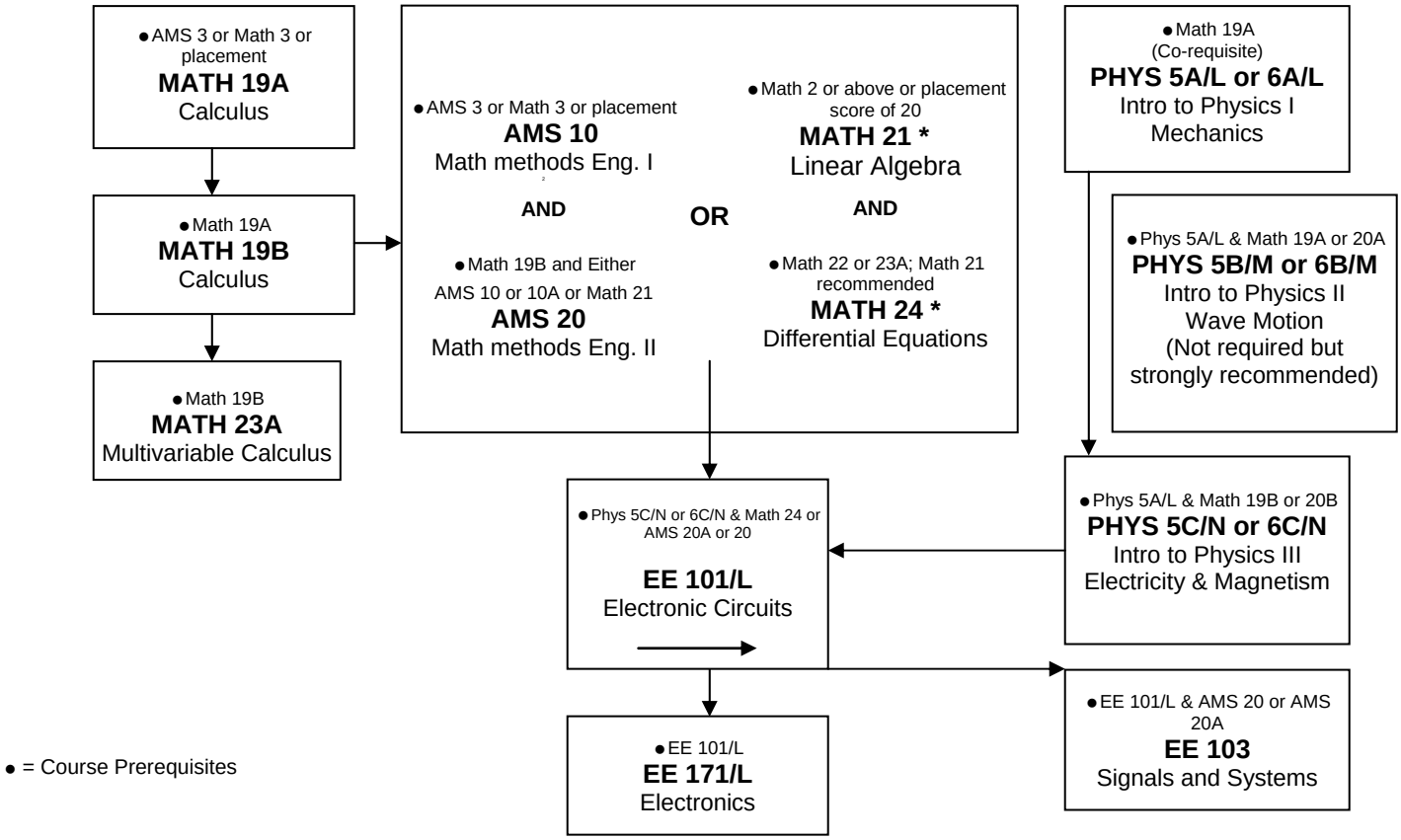
ELECTRICAL ENGINEERING MINOR
CURRICULUM CHART
2012-2013



● = Course Prerequisites

Elective Requirements - In addition to the above, students must complete at least 15 units of upper-division or graduate electrical engineering courses (all from one track). **Most, if not all elective courses have pre-reqs; because they are subject to change frequently, please visit http://www.soe.ucsc.edu/courses to ensure you have met them.**

Electronics & Optics Track

EE 104 Bio-electronics & Bio-instrumentation
EE 115 Intro to MEMS Design
EE 130/L / 230 Optical Fiber Communication
EE 135/L Electromagnetic Fields & Waves
EE 136 Engineering Electromagnetics (Strongly Recommended)
EE 145/L Properties of Materials
EE 154 / 241 Feedback Control Systems
EE 157/L RF Hardware Design/Lab
EE 172 / 221 Advanced Analog Integrated Circuits
EE 175/L Energy Generation and Control
EE 176/L Energy Conversion and Control
EE 177/L Power Electronics
EE 178 Device 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 121/L Microprocessor System Design (Strongly Recommended)
CMPE 173/L High Speed Digital Design
AMS 147 Computational Methods & Applications

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

* Students who complete Math 21 and 24 (or the equivalents) in lieu of AMS 10 and 20 are strongly encouraged to take the Matlab self-paced tutorial prior to enrolling in EE 101/L.

ELECTRICAL ENGINEERING MINOR
DEGREE CURRICULUM 2010-2011

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

STUDENT'S NAME:

STAFF ADVISOR:

FACULTY ADVISOR: