**Electrical Engineering Curriculum Chart 2008-2009**

**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.

**Electronics & Optics Track**
- EE 115 Intro to MEMS Design (EE 135L & EE 145L)
- EE 130L / 230 Optical Fiber Communication (EE 135L)
- EE 136 Engineering Electromagnetics (Strongly Recommended) (EE 135L)
- EE 154 Feedback Control Systems (EE 103)
- EE 172 / 221 Advanced Analog Integrated Circuits (EE 171)
- EE 178 Device Electronics (EE 145L and EE 171L)
- EE 211 Introduction to Nanotechnology (EE 145L and Instructor permission)
- EE 231 Optical Electronics (EE 145L and Instructor permission)
- AMS 147 Computational Methods & Applications (AMS 20 or MATH 21)
- CMPE 118L Intro to Mechatronics (CE 120L, EE 70L)
- CMPE 121L Microprocessor System Design (Strongly Recommended)
- CMPE 173L High Speed Digital Design (EE 70L, CE 174)

**Communications, Signals, Systems, & Controls Track**
- EE 130L / 230 Optical Fiber Communication (EE 135L)
- EE 136 Engineering Electromagnetics (Strongly Recommended) (EE 135L)
- EE 152 / 252 Intro to Wireless Signals/Systems (CE 107, EE 151, or instructor permission)
- EE 153 / 250 Digital Signal Processing (EE 103)
- EE 154 / 241 Feedback Control Systems (EE 103)
- EE 262 Statistical Signal Processing (EE 103, CE 107 and Instructor permission)
- EE 264 Image Processing and Reconstruction (EE 153 and Instructor permission)
- AMS 147 Computational Methods & Applications (AMS 27L or MATH 21)
- AMS 162 Design/Analysis Computational Simulation (EE 107)
- CMPE 118L Intro to Mechatronics (CE 120L, EE 70L)
- CMPE 150L Intro to Computer Networks (CE 120L, CE 16)
- CMPE 251 Error-Control Coding (Instructor permission)

**Senior Design Project**
- EE 123A Engineering Design Project I (EE 171 or CE 121; previous or concurrent enrollment in CE 188; permission of instructor) F, W
- EE 123B Engineering Design Project II (EE 123A and CE 185) W, S

**Prior to graduation, you are required to:**
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 & elective courses for the major, OR
   Submit a Portfolio for Department Review, OR
   Submit a Senior Thesis with Department Approval

**Shaded boxes represent Foundation courses**
- = Course prerequisites

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www.soe.ucsc.edu/advising/undergraduate :: advising@soe.ucsc.edu :: (831) 459-5840 :: revised 7/30/2008
**ELECTRICAL ENGINEERING CURRICULUM CHART**
**2008-2009**

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*Approved List of Ethics Courses:
CMPE 80E  Engineering Ethics   S
PHIL 22 Intro to Ethical Theory   W
PHIL 24 Intro to Contemporary Ethics: Contemporary Moral Issues   S
PHIL 28 Environmental Ethics   S
BME 80G or PHIL 80G Bioethics in the 21st Century: Science, Business, and Society   F

*Approved programming options:
CMPS 12A/L  Intro to programming (accelerated)
OR
CMPS 5J  Intro to programming in JAVA and CMPS 11 Intro to programming in Python

**STUDENT’S NAME:**

**STAFF ADVISOR:**

**FACULTY ADVISOR:**