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

Communications, Signals, Systems, & Controls Track
- EE 130/L & 230 Optical Fiber Communication
- EE 136 Engineering Electromagnetics (Strongly Recommended)
- EE 152/L & 252 Intro to Wireless Signals & Systems
- EE 153/L & 250 Digital Signal Processing
- EE 154/L & 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 & 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/L & 241 Feedback Control Systems
- EE 157/L RF Hardware Design/Lab
- EE 172/L Advanced Analog Integrated Circuits
- EE 175/L Energy Generation & Control
- EE 176/L Energy Conversion & 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)
- EE 173/L High Speed Digital Design
- AMS 147 Computational Methods & Applications

Senior Design Project (Choose One)
- EE 129A Engineering Design Project I (EE 171 and CE 100 and 185; permission of the Instructor)
- EE 129B Engineering Design Project II (EE 129A and one of the following: EE 157, CE 118 or CE 121; permission of the instructor)
- EE 129C Engineering Design Project III (EE 129B)
- EE 195 Senior Thesis (12 units; students must take EE 157 or CE 118 to fulfill design experience; Department Approval)
- EE 123A Engineering Design Project I (EE 171 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 CE 121; 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 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

* Preferred but students can substitute CMPS 12A/L or CMPS 5J and CMPS 11
** Students who complete Math 21 and Math 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.
† Satisfies the DC requirement

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

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**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:**