Electrical Engineering Minor
Curriculum Chart
2008-2009

Elective Requirements - In addition to the above, students must complete 15 Units of upper-division or graduate elective courses (all from one track).

Electronics & Optics Track

EE 115 Intro to MEMS Design (● EE 135/L & EE 145/L)
EE 130/L / 230 Optical Fiber Communication (● Physics 5 B & C + labs)
EE 135/L Electromagnetic Fields & Waves (● EE 70/L & AMS 20 & Math 23B)
EE 136 Engineering Electromagnetics (Strongly Recommended) (● EE 135/L)
EE 145/L Properties of Materials (● Physics 5 B & C + labs)
EE 154 Feedback Control Systems (● EE 103)
EE 172 / 221 Advanced Analog Integrated Circuits (● EE 171)
EE 178 Device Electronics (● EE 145/L and EE 171/L)
EE 231 Introduction to Nanotechnology (● EE 145/L and Instructor permission)
AMS 147 Computational Methods & Applications (● AMS 20 or MATH 21)
AMS 121/L Microprocessor System Design (Strongly Recommended)
● CE 12/L, CE 100/L, EE 70/L
AMS 173/L High Speed Digital Design (● EE 70/L, CE 174)

Communications, Signals, Systems, & Controls Track

EE 130/L / 230 Optical Fiber Communication (● Physics 5 B & C + labs)
EE 136 Engineering Electromagnetics (Strongly Recommended) (● EE 135/L)
EE 151 Communication Systems (● EE 70/L, 103, & CMPE 107)
EE 152 / 252 Intro to Wireless Signals/Systems (● CE 107, EE151, 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 27/L or MATH 21)
AMS 162 Design/Analysis Computational Simulation (● CE 107)
CMPE 118/L Intro to Mechatronics (● CE12/L, EE70/L)
CMPE 150/L Intro Computer Networks (● CE 12/L, CE 16)
CMPE 251 Error-Control Coding (● Instructor permission)

● Math 19A (Co-requisite)
PHYS 5A/L or 6A/L Intro to Physics I Mechanics

● Math 19A
PHYS 5B/M or 6B/M Intro to Physics II Wave Motion
(Not required Strongly recommended)
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STUDENT'S NAME:

STAFF ADVISOR:

FACULTY ADVISOR: