

# ELECTRICAL ENGINEERING

## Analog Electronics Recommended Schedule 2011-2012

### Lower Division

### Upper Division

#### Freshman Year

Math 21A - Calculus  
ECS10/ECS 30 - Programming  
English - UWP 1 or English 3 or  
Comp Lit 1, 2, 3 or 4 or NAS 5  
EEC 1 – Intro to ECE

**Fall**

#### Junior Year

EEC 100 - Circuits II  
EEC 140A - Device Physics  
EEC 180A - Digital Systems

**Fall**

**Winter**

Math 21B - Calculus  
Chemistry 2A - General Chemistry  
GE Elective/ECS30

EEC 110A - Electronic Circuits  
EEC 130A – Electromagnetics  
EEC 150A - Signals and Systems  
GE Elective

**Winter**

**Spring**

Math 21C - Calculus  
Physics 9A - Classical Physics  
ENG 6 - Engineering Problem Solving  
GE Elective

EEC 110B – Electronic Circuits II  
EEC 140B – Device Physics II  
EEC 161 – Probabilistic Analysis  
Upper Division Writing Requirement  
or Unrestricted Elective

**Spring**

#### Sophomore Year

Math 21D - Vector Analysis  
Physics 9B - Classical Physics  
EEC 70 - Assembly Language

**Fall**

#### Senior Year

EEC 195A – NATCAR Design Project  
EEC 196 – Issues in Engineering Design  
EEC 150B – Signals & Systems II  
EEC 160 – Signal Analysis & Communication  
GE Elective

**Fall**

**Winter**

Math 22A - Linear Algebra  
Physics 9C - Classical Physics  
CMN 1 - Public Speaking or  
CMN 3 - Group Communication  
GE Elective

EEC 112 – Communication Electronics  
EEC 165 – Statistical & Digital Communication  
EEC 195B – NATCAR Design Project  
Technical Elective

**Winter**

**Spring**

Math 22B - Differential Equations  
Physics 9D - Modern Physics  
ENG 17 – Circuits I  
GE Elective

ENG 190 – Prof Responsibilities  
EEC 118 – Digital Integrated Circuits  
Technical Elective  
Upper Div Elective

**Spring**

### Total Units for Degree Requirement in Electrical Engineering- 180

*In addition to the courses listed above, you may need to complete an appropriate number of unrestricted electives in order to meet the campus requirement of having completed at least 180 units prior to graduation.*

**For assistance with schedule modifications, consult the ECE Staff Advisor**