# Suggested Precalculus Course Plan for a UC Riverside Major in Electrical Engineering

(Catalog Year 2009)

## First Year

### Fall Quarter
- EE 010 (2)  
  Intro to Electrical Engineering
- ENGL 001A (4)  
  English Composition
- MATH 005/MATH 008A (5)  
  Precalculus
- BREADTH (4)  
  Humanities/Social Sciences

### Winter Quarter
- CS 010 (4)  
  C++ Programming
- ENGL 001B (4)  
  English Composition
- MATH 008B/MATH 009A (4)  
  First Year Calculus
- BREADTH (4)  
  Humanities/Social Sciences

### Spring Quarter
- CS 013 (4)  
  Introductory CS for Engineers
- ENGL 001C or 01SC* (4)  
  English Composition
- MATH 009B (4)  
  First Year Calculus
- BREADTH (4)  
  Humanities/Social Sciences

## Second Year

### Fall Quarter
- CS 061 (4)  
  Machine Organization
- MATH 009C (4)  
  First Year Calculus
- MATH 046 (4)  
  Differential Equations
- PHYS 040A (5)  
  Physics (Mechanics)

### Winter Quarter
- EE/CS 120A (5)  
  Logic Design
- MATH 010A (4)  
  Multivariable Calculus
- PHYS 040B (5)  
  Physics (Heat/Waves/Sound)

### Spring Quarter
- CS/EE 120B (5)  
  Embedded Systems
- EE 001A/01LA (4)  
  Engineering Circuit Analysis
- MATH 010B (4)  
  Multivariable Calculus
- PHYS 040C (5)  
  Physics (Electricity/Magnetism)

## Third Year

### Fall Quarter
- EE 001B (4)  
  Engineering Circuit Analysis II
- EE 110A (4)  
  Signals & Systems
- ENGR 180 (3)  
  Technical Communications
- BREADTH (4)  
  Humanities/Social Sciences

### Winter Quarter
- EE 100A (4)  
  Electronic Circuits
- EE 105 (4)  
  Simulation of Dynamic Systems
- EE 110B (4)  
  Signals & Systems
- BREADTH (4)  
  Biological Science

### Spring Quarter
- EE 100B (4)  
  Electronic Circuits
- EE 114 (4)  
  Probability, Random Variables & Processes
- EE 116 (4)  
  Electromagnetics
- EE 132 (4)  
  Automatic Control

## Fourth Year

### Fall Quarter
- EE 115 (4)  
  Analog Communications
- EE 141 (4)  
  Digital Signal Processing
- TECHNICAL ELECTIVE (4)  
  **See Catalog List
- TECHNICAL ELECTIVE (4)  
  **See Catalog List

### Winter Quarter
- CHEM 001A/01LA (5)  
  General Chemistry
- EE 175A (4)  
  Senior Design Project
- TECHNICAL ELECTIVE (4)  
  **See Catalog List
- TECHNICAL ELECTIVE (4)  
  **See Catalog List

### Spring Quarter
- EE 175B (4)  
  Senior Design Project
- TECHNICAL ELECTIVE (4)  
  **See Catalog List
- BREADTH (4)  
  Humanities/Social Sciences
- BREADTH (4)  
  Humanities/Social Sciences

## Notes

Humanities/Social Sciences courses fulfill breadth requirements specific to the College of Engineering. A list of approved Breadth courses is available on the College of Engineering Student Academic Affairs website: [http://student.engr.ucr.edu](http://student.engr.ucr.edu).

*Optional, but recommended.

**Technical Electives are courses in Electrical Engineering which explore specific topics. A list of Technical Electives is available on the College of Engineering Student Academic Affairs website: [http://student.engr.ucr.edu](http://student.engr.ucr.edu), and the UCR College Catalog website: [www.catalog.ucr.edu](http://www.catalog.ucr.edu).*