# Suggested Course Plan for a UC Riverside Major in Computer Science
(Catalog Year 2007)

## Fall Quarter
- **ENGL 001A**
  - English Composition
- **MATH 009A**
  - First Year Calculus
- **BREADTH**
  - Humanities/Social Sciences
- **ENGR 001I**
  - Professional Dev & Mentoring
- **ENGR 92**
  - Freshman Seminar

## Winter Quarter
- **CS 010**
  - C++ Programming I
- **ENGL 001B**
  - English Composition
- **MATH 009B**
  - First Year Calculus
- **BREADTH**
  - Biological Science

## Spring Quarter
- **CS 012**
  - C++ Programming II
- **ENGL 1SC**
  - English Composition for Engr
- **MATH 009C**
  - First Year Calculus
- **BREADTH**
  - Humanities/Social Sciences

## Second Year
- **CS 061**
  - Assembly Language Programming
- **MATH/CIS 011**
  - Intro to Discrete Structures
- **PHYS 040A**
  - Physics (Mechanics)
- **BREADTH**
  - Humanities/Social Science

## Winter Quarter
- **CS 014**
  - Data Structures
- **EE/CIS 120A**
  - Logic Design
- **MATH/CIS 111**
  - Discrete Structures
- **PHYS 040B**
  - Physics (Heat/Waves/Sound)

## Spring Quarter
- **CS/EE 120B**
  - Embedded Systems
- **MATH 010A**
  - Multivariable Calculus
- **PHYS 040C**
  - Physics (Electricity/Magnetism)

## Third Year
- **CS 141**
  - Algorithms
- **CS 161/161L**
  - Computer Architecture
- **ENGR 101I**
  - Professional Dev & Mentoring
- **MATH ELECTIVE**
  - **See Catalog List

## Winter Quarter
- **CS 150**
  - Theory of Auto & Formal Language
- **CS 153**
  - Operating Systems
- **TECHNICAL ELECTIVE**
  - **See Catalog List

## Spring Quarter
- **ENGINEERING ELECTIVE**
  - **See Catalog List
- **ENGR 180**
  - Technical Communications
- **MATH 113**
  - Linear Algebra
- **TECHNICAL ELECTIVE**
  - **See Catalog List

## Fourth Year
- **STAT 155**
  - Probability/Statistics for Engr
- **TECHNICAL ELECTIVE**
  - **See Catalog List
- **TECHNICAL ELECTIVE**
  - **See Catalog List
- **BREADTH**
  - Humanities/Social Sciences

## Winter Quarter
- **CS 152**
  - Compilers
- **TECHNICAL ELECTIVE**
  - **See Catalog List
- **BREADTH**
  - Humanities/Social Sciences

## Spring Quarter
- **CS 179**
  - Project in Computer Science
- **MATH ELECTIVE**
  - **See Catalog List
- **TECHNICAL ELECTIVE**
  - **See Catalog List
- **BREADTH**
  - Humanities/Social Sciences

### Notes
- Humanities/Social Sciences courses fulfill the breadth requirements specific to the College of Engineering and is available on the College of Engineering Student Academic Affairs website: [www.engr.ucr.edu/studentaffairs](http://www.engr.ucr.edu/studentaffairs).
- *Optional, but recommended.
- **Electives are courses in Computer Science which explore specific topics. A list of Electives is available on the College of Engineering Student Academic Affairs website: [www.engr.ucr.edu/studentaffairs](http://www.engr.ucr.edu/studentaffairs), and the UCR College Catalog website: [www.catalog.ucr.edu](http://www.catalog.ucr.edu).