Suggested Course Plan for a

Computer Science ‘04-‘06

Major at UC Riverside (Catalog Years: 2004-06)

**Fall Quarter**

- MATH 9A  
  *First Year Calculus*
- ENGL 1A  
  *English Composition*
- BREADTH  
  *Humanities/Social Sciences*
- ENGR 10*  
  *Intro to CS&E*
- ENGR 92*  
  *Freshman Seminar*

**Winter Quarter**

**First Year**

- MATH 9B  
  *First Year Calculus*
- ENGL 1B  
  *English Composition*
- CS 10  
  *C++ Programming*
- BREADTH  
  *Biological Science*

**Spring Quarter**

- MATH 9C  
  *First Year Calculus*
- ENGL 1SC  
  *English Composition for Sci/Eng*
- CS 12  
  *C++ Programming II*
- BREADTH  
  *Humanities/Social Sciences*

**Second Year**

- CS/MATH 11  
  *Finite Mathematics*
- CS 61  
  *Assembly Language Programming*
- PHYS 40A  
  *Physics (Mechanics)*
- BREADTH  
  *Humanities/Social Science*

- CS/MATH 111  
  *Finite Mathematics*
- CS/EE 120A  
  *Logic Design*
- CS 14  
  *Data Structures*
- PHYS 40B  
  *Physics (Heat/Waves/Sound)*

**Third Year**

- CS 141  
  *Algorithms*
- CS 161/161L  
  *Computer Architecture*
- MATH ELECTIVE

- CS 153  
  *Operating Systems*
- CS 150  
  *Theory of Auto & Formal Language*
- TECHNICAL ELECTIVE

- MATH 113  
  *Linear Algebra*
- ENGR 180  
  *Technical Communications*
- ENGINEERING ELECTIVE
- EE 2 Recommended
- TECHNICAL ELECTIVE

**Fourth Year**

- STATISTICS 155  
  *Probability/Statistics for Sci/Eng*
- TECHNICAL ELECTIVE

- CS 152  
  *Compilers*
- TECHNICAL ELECTIVE

- BREADTH  
  *Humanities/Social Sciences*

- BREADTH  
  *Humanities/Social Sciences*

**Notes**

Humanities/Social Sciences/Biological Science courses fulfill the breadth requirements specific to the College of Engineering. Biology must contain a laboratory component. Mathematics/Engineering electives—students must choose one course in each of these subjects in consultation with a faculty mentor to fulfill major requirements. Technical electives are courses in Computer Science, or related fields, which explore certain topics. A list of technical electives and breadth requirements may be found on the College of Engineering Student Academic Affairs website: [www.engr.ucr.edu/studentaffairs](http://www.engr.ucr.edu/studentaffairs).

*Optional, but recommended, courses*