



Suggested Course Plan for a UC Riverside Major in

Computer Engineering

(Catalog Year 2010)

Fall Quarter

CS 010 (4)
C++ Programming I
ENGL 001A (4)
English Composition
ENGR 001G (1)
Professional Dev & Mentoring
MATH 009A (4)
First Year Calculus
BREADTH (4)
Humanities/Social Science

Winter Quarter

First Year
CS 012 (4)
C++ Programming II
ENGL 001B (4)
English Composition
MATH 009B (4)
First Year Calculus
PHYS 040A (5)
Physics (Mechanics)

Spring Quarter

CS 014 (4)
Data Structures
MATH 009C (4)
First Year Calculus
MATH/CS 011 (4)
Intro to Discrete Structures
PHYS 040B (5)
Physics (Heat/Waves/Sound)

CS 100 (4)
Software Construction
EE 001A/011A (4)
Engineering Circuit Analysis I
MATH 046 (4)
Differential Equations
PHYS 040C (5)
Physics (Electricity/Magnetism)

Second Year
EE 001B (4)
Engineering Circuit Analysis II
MATH 010A (4)
Multivariable Calculus
MATH/CS 111 (4)
Discrete Structures
BREADTH (4)
Humanities/Social Science

CS 061 (4)
Machine Organization
MATH 113 (5)
Linear Algebra
BREADTH (4)
Humanities/Social Sciences
BREADTH (4)
Humanities/Social Science

CS 141 (4)
Algorithms
EE 100A (4)
Electronic Circuits
EE 110A (4)
Signals and Systems
ENGR 101G (1)
Professional Dev & Mentoring

Third Year
EE 100B (4)
Electronic Circuits
EE 110B (4)
Signals and Systems
EE/CS 120A (5)
Logic Design
CS 153/160 (4)
Operating Systems/Concurrent Prog

CS/EE 120B (5)
Embedded Systems
ENGR 180W (4)
Technical Communications
BREADTH (4)
Humanities/Social Science

CS 122A/EE 128 (5)
Micro Design/Instrumentation
CS 161/161L (6)
Computer Architecture
BREADTH (4)
BIOL 002 or 003 or 005A/LA
BREADTH (4)
Humanities/Social Sciences

Fourth Year
CHEM 001A/LA or CHEM 003 (5)
General Chemistry/Concepts of Chem
STAT 155 (4)
Probability, Statistics for Engr
TECHNICAL ELECTIVE (4)
***See Catalog List*
TECHNICAL ELECTIVE (4)
***See Catalog List*

TECHNICAL ELECTIVE (4)
***See Catalog List*
TECHNICAL ELECTIVE (4)
***See Catalog List*
TECHNICAL ELECTIVE (4)
***See Catalog List*

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/>.

**Technical Electives are courses in Computer 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/>, and the UCR College Catalog website: www.catalog.ucr.edu/.

Technical Electives for 2010-2011

5 courses (at least 20 units) of Technical Electives are needed for Computer Engineering. Within the Technical Electives selected they must include CS 179 (E-Z) or both EE 175A and EE 175B. Additionally, at least 2 Technical Elective courses must come from the same focus area. The possibilities are listed below:

A R E A S O F F O C U S

	Computer Architecture	Digital Design and Interface	Computer Communications	Information and Signal Processing	Computer Systems Engineering	Control and Automation
CLASSES						
CS 100					X	
CS 121		X				
CS 122A	X	X				X
CS 122B	X	X				X
CS 130				X		
CS 133				X		
CS 150	X			X		
CS 152					X	
CS 153					X	
CS 160			X		X	
CS 162	X					
CS 164	X		X		X	
CS 165					X	
CS 166				X	X	
CS 168		X				
CS 170				X		
CS 177	X		X			
CS 179	X	X	X	X	X	X
CS 180			X			
CS 181					X	
CS 183					X	
CS 193	X	X	X	X	X	X
EE 105						X
EE 115			X			
EE 128		X				X
EE 132						X
EE 133*	X	X			X	
EE 134*	X	X			X	
EE 135*	X	X			X	
EE 141		X				
EE 144						X
EE 146				X		
EE 150			X			
EE 151						X
EE 152				X		
EE 175A	X	X	X	X	X	X
EE 175B	X	X	X	X	X	X