



Computer Engineering Schedule of Senior CE Electives

Computer Engineering Program · UC, Santa Barbara

LAST NAME, FIRST NAME

Perm #

UMAIL

PHONE #

STUDENTS ARE RESPONSIBLE FOR DETERMINING AND TAKING THE NECESSARY PREREQUISITES FOR THE CLASSES LISTED BELOW AS THEY DO CHANGE. FOR THE MOST UP-TO-DATE INFORMATION, CHECK WITH THE COMPUTER SCIENCE STUDENT OFFICE FOR CS COURSES AND THE ECE STUDENT OFFICE FOR ECE COURSES.

COURSE	UNITS
"Capstone" Project (ECE or CS 189AB)	
Sequence 1 (2 Courses min.)	
Sequence 2 (2 Courses min.)	
Other Electives	
MIN. REQUIRED	32
TOTAL	

A total of at least eight courses (32 units minimum) including two sequences plus the Capstone project.

Student's Signature

Date

Faculty Advisor's Signature

Date

ECE Student Office

Date

**** PLEASE RETURN TO: ECE STUDENT OFFICE – TRAILER 380, ROOM 101**

* Choose two sequence topics:

Check Here	Sequence Topics	Senior Elective Sequences
	Computer Networks	Network Computing – Choose EITHER: ECE 155A & ECE 155B OR CMPSC 176A & CMPSC 176B
	Computer Systems Design	ECE 153A OR CMPSC 153A: Hardware/Software Interface ECE 153B: Sensor and Peripheral Interface Design
	Computer-Aided Design (CAD) for Integrated Circuits	ECE 156A: Digital Design with VHDL and Synthesis ECE 156B: Computer-Aided Design of VLSI Circuits
	Distributed Systems	ECE 151 OR CMPSC 171: Distributed Systems and one or both of the following courses: ECE 155A OR CMPSC 176A: Intro. to Computer Networks ECE 155B OR CMPSC 176B: Network Computing
	Multimedia	choose two or more of the following courses: ECE 178: Fundamentals of Computer Image Processing ECE 181B OR CMPSC 181B: Introduction to Computer Vision ECE 160 OR CMPSC 182: Multimedia Computing
	Programming Languages	CMPSC 160: Translation of Programming Languages (Note Prereq. CMPSC 138 (Jr. Yr.)) CMPSC 162: Programming Languages
	Real-Time Computing & Control	ECE 147A: Feedback Control Systems - Theory and Design (Note Prereq. ECE 130ABC (Jr. Yr)) ECE 147B: Digital Control Systems - Theory and Design
	Very Large Scale Integration (VLSI)	ECE 124A: VLSI Principles (Note Pre-req. ECE 132 (may be taken concurrently)) ECE 124D: VLSI Architecture and Design

Check Here	Acceptable Additional Courses	Units
<i>(Select a Senior Project from the Project List presented in class)</i>	*Required Senior “Capstone” Computer Systems Project: CMPSC 189A/B or ECE 189A/B (Two Qtrs of instruction – 4 Units & 4 Units)	8
	CMPSC 130B: Data Structures and Algorithms II	4
	CMPSC 138: Automata and Formal Languages	4
	CMPSC 153A / ECE 153A : Hardware/Software Interface	4
	CMPSC 160: Translation of Programming Languages	4
	CMPSC 162: Programming Languages	4
	CMPSC 165A: Artificial Intelligence	4
	CMPSC 165B: Machine Learning	4
	CMPSC 171: Distributed Systems	4
	CMPSC 176A / ECE 155A : Intro. to Computer Communication Networks	4
	CMPSC 176B / ECE 155B : Network Computing	4
	CMPSC 176C: Advanced Topics in Internet Computing	4
	CMPSC 177: Computer Security	4
	CMPSC 178: Introduction to Cryptography	4
	CMPSC182 / ECE 160 : Multimedia Computing	4
	ECE 124A: VLSI Principles	4
	ECE 124D: VLSI Architecture and Design	4
	ECE 147A: Feedback Control Systems – Theory and Design	5
	ECE 147B: Digital Control Systems – Theory and Design	5
	ECE 151: Distributed Systems	4
	ECE 153B: Sensor and Peripheral Interface Design	4
	ECE 156A: Digital Design with VHDL and Synthesis	4
	ECE 156B: Computer-Aided Design of VLSI Circuits	4
	ECE 178: Fundamentals of Computer Image Processing	4
	ECE 181A: Intro. to Robotics: Robot Mechanics	4
	ECE 181C: Intro. to Robotics: Robot Control	4

Minimum CE Elective Units Required: 32*

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