

# Electrical Engineering

## Schedule of Senior EE Electives, 2016-17 & Later

Department of Electrical and Computer Engineering – University of California, Santa Barbara

Last Name, First Name

Umail Address

Perm Number

Phone Number

**STUDENTS ARE RESPONSIBLE FOR DETERMINING AND TAKING THE NECESSARY PREREQUISITES FOR THE CLASSES LISTED.**

**YOUR SENIOR ELECTIVES MUST INCLUDE:**

- 1) A MINIMUM OF 32 UNITS;
- 2) A MINIMUM OF 8 COURSES;
3. EE SENIOR CAPSTONE PROJECT, ECE 188A-B-C (3 UNITS EACH, TOTAL OF 9 UNITS); AND ONE (1) ADDITIONAL SEQUENCE REQUIRED;
- 4) ADDITIONAL DEPARTMENTAL ELECTIVES OF YOUR CHOOSING.

	Course	Units
Capstone Sr. Project		
Second Sequence		
Departmental Electives		
	Total Units:	
	Minimum Required:	32

Student's Signature

Date

ECE Student Office Approval Signature

Date

Faculty Advisor's Signature

Date

# Electrical Engineering Program

## Undergraduate Emphases

The ECE electives allow students to acquire more in-depth knowledge in one of several areas of specialization. Several possible tracks are illustrated below with recommendations for related electives. Note that these are NOT to be considered the only possibilities for electives. They are listed just to provide some guidance in choosing electives consistent with specific disciplines.

### Approved Departmental Electives

<p><b>Computer Engineering</b></p> <p>ECE123 ECE 122A-B ECE150 ECE153A-B ECE 154A-B ECE 155A</p>	<p><b>Control Systems/Robotics</b></p> <p>ECE130C ECE141A-B-C (A&amp;C-3 units ea) ECE147A-B-C (5 units each) ECE179D ECE179P ECE181 ECE183</p>	<p><b>Electronic Systems</b></p> <p>ECE122A-B ECE125 ECE142 ECE144 ECE145A-B-C: 5 units each ECE146A-B (5 units each) ECE148</p>	<p><b>Engineering &amp; Technology Management*</b></p> <p>TMP 120 TMP 122 TMP 132 TMP 135</p>
<p><b>VLSI Design</b></p> <p>ECE122AB ECE153A-B ECE156A-B</p>	<p><b>Signal Processing and Communications</b></p> <p>ECE130C ECE146A-B ECE148 ECE158 ECE 160 ECE178 ECE181</p>	<p><b>Nanotechnology: Material &amp; Devices</b></p> <p>ECE 120A-B ECE135 ECE141A-B-C (A&amp;C-3 units ea) ECE144 ECE162A-B-C Materials 100A-C (3 units ea) Materials 100B or Materials 101 - (3 units ea)</p>	<p><b>Other</b></p> <p>ECE 192 or ECE 196 (4 units combined max) ECE 188A-B-C (Sr. Design Sequence) (3 units ea)  ECE 194AA-ZZ (Except 194R)</p>

### Approved Departmental Sequences

#### Design Sequences

ECE 122A & ECE 122B  
ECE120A & ECE 120B  
ECE 145A & ECE 145B (5 units each)  
ECE 146A & ECE 146B (5 units each)  
ECE 147A & ECE 147B (5 units each)  
ECE 147A & ECE 147C (5 units each)  
ECE 153A & ECE 153B  
ECE 158 & ECE 178  
ECE 178 & ECE 181  
ECE 179D & ECE 179P

#### Other Sequences

ECE 122A & ECE 120A  
ECE 123 & ECE 122B  
ECE 141A & ECE 141B (ECE 141A: 3 units)  
ECE 141A & ECE 141C (3 units each)  
ECE 144 & ECE 135  
ECE 145A & ECE 145C (5 units each)  
ECE 145A & ECE 146A (5 units each)  
ECE 148 & ECE 158  
ECE 148 & ECE 178  
ECE 154A & ECE 155A  
ECE 154A & ECE 154B  
ECE 156A & ECE 156B  
ECE 158 & ECE 181  
ECE 160 & ECE 178  
ECE 160 & ECE 181  
ECE 162A & ECE 162B

\* Students may count only ONE course offered by the Engineering Science/Technology Management program as a departmental elective.