

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. Course descriptions for many of these courses can be found on the ECE webpage: http://www.ece.ucsb.edu/current_courses.shtml

Approved Departmental Electives

<p>Computer Engineering</p> <p>ECE 123 ECE124A-D ECE125 ECE152B ECE153A-B ECE154 ECE155A-B</p>	<p>Control Systems/Robotics</p> <p>ECE130C ECE141A-B-C ECE147A-B-C ECE181A-B-C ECE178 ECE183</p>	<p>Electronic Systems</p> <p>ECE124A-D ECE125 ECE144 ECE145A-B-C ECE146A-B ECE148 ECE149</p>	<p>Engineering & Technology Management *</p> <p>Engineering 100 Engineering 103 Engineering 185A-B-C-D</p>
<p>Nanotechnology: Materials & Devices</p> <p>ECE124B-C ECE135 ECE141A-B-C ECE144 ECE162A-B-C Materials 100A-C Materials 100B or Materials 101</p>	<p>Signal Processing and Communications</p> <p>ECE130C ECE146A-B ECE148 ECE149 ECE158 ECE178 ECE181B</p>	<p>VLSI Design</p> <p>ECE124A-D ECE125 ECE152B ECE153AB ECE156A-B</p>	<p>Other</p> <p>ECE 192 or ECE 196 (4 units combined max) OR ECE 188A-B (Sr. Design Sequence) ECE 194</p>

Approved Departmental Sequences

Design Sequences

ECE 124A & ECE 124B
ECE 124A & ECE 124D
ECE 123 & ECE 124D
ECE 124B & ECE 124C
ECE 145A & ECE 145B
ECE 145A & ECE 145C
ECE 145A & ECE 146A
ECE 145A & ECE 149
ECE 146A & ECE 146B
ECE 147A & ECE 147B
ECE 147A & ECE 147C
ECE 152B & ECE 153A
ECE 153A & ECE 153B
ECE 155A & ECE 155B
ECE 158 & ECE 178
ECE 188A & ECE 188B
ECE 178 & ECE 181B

Other Sequences

ECE 141A & ECE 141B
ECE 141A & ECE 141C
ECE 144 & ECE 135
ECE 148 & ECE 149
ECE 148 & ECE 158
ECE 148 & ECE 178
ECE 154 & ECE 155A
ECE 154 & ECE 152B
ECE 156A & ECE 156B
ECE 158 & ECE 149
ECE 158 & ECE 181B
ECE 160 & ECE 178
ECE 160 & ECE 181B
ECE 162A & ECE 162B

* Students may count only one course offered by the Engineering Science program as a departmental elective. ENGR 185A-B-C count toward the Technology Entrepreneurship Certificate Program. Other Engineering Science courses can be used as free electives.

Electrical Engineering

Schedule of Senior EE Electives

(For Freshman from Fall 1999 or later and Junior transfers from Fall 2001 or 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.) TWO SEQUENCES, ONE OF WHICH MUST BE A DESIGN SEQUENCE
- 4.) ADDITIONAL DEPARTMENTAL ELECTIVES OF YOUR CHOOSING

	Course	Units
Design Sequence		
Second Sequence		
Departmental Electives		
Total Units:		
Minimum Required:		32

Student's Signature **Date**

ECE Student Office Approval Signature **Date**

Faculty Advisor's Signature **Date**