## MAJOR REQUIREMENTS

### Lower Division Requirements
- CHEM 6A (General Chemistry I)
- PHYS 2A (Mechanics)
- PHYS 2B (Electricity and Magnetism)
- PHYS 2C (Flu,Wav,Thrmdyn,Optics)
- PHYS 2D (Relativity & Quantum)
- ECE Majors only: PHYS 2DL

### Upper Division Requirements
- ECE 150 (Linear Electronic Systems)
- ECE 151 (Linear Systems Fundamentals)
- ECE 152 (Intro Active Circuit Design)
- ECE 153 (Fundamentals/Devices & Matrls)
- ECE 157 (Electromagnetism)
- ECE 159 (Eng. Probability & Stats)

### DEPTHS:
#### EE Majors: 5 courses
- Depth #1
- Depth #2
- Depth #3
- Elective #1
- Elective #2

#### EP Majors: 7 courses
- MATH 110A
- PHYS 110A
- PHYS 130A
- PHYS 130B
- PHYS 140A
- Elective #3
- Elective #4

#### EE & Society Majors: 6 courses
- Elective #5
- Elective #6
- Elective #7

### Design Course:
ECE 111, 118, 191, or 190

### Electives:
#### EE Majors: 3 Professional and 4 Technical
- Elective #8
- Elective #9
- Elective #10
- Elective #11

#### EP Majors: 3 Professional and 2 Technical
- Elective #12
- Elective #13

#### EE & Society Majors: 4 Technical
- Elective #14
- Elective #15
- Elective #16
- Elective #17

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### DEPTH SEQUENCES:

**Communication Systems:** ECE 153, ECE 154A, ECE 154B, ECE 154C, and ECE 158A

**Electronics Circuits & Systems:** ECE 163, 164, 165, 166

**Electronic Devices & Materials:** ECE135A, ECE 135B, ECE 136L, ECE 183

**Machine Learning & Controls:** ECE 171A, ECE 174, ECE 175A, one of ECE 171B, ECE 172A, or ECE175B

**Photonics:** ECE 181, ECE 182, ECE 183 and either ECE 184 or ECE 185

**Signal and Image Processing:** ECE 153, ECE 161A, ECE 161B, ECE 161C

**Computer System Design:** CSE 141, ECE 165 and any two of ECE 118, ECE 158A, ECE 111 or CSE 143
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<td>ECE 35</td>
<td>PHYS 2D &amp; 2DL</td>
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**Please Note:**

- PHYS 2D & PHYS 130A have prerequisites that are not listed above. PHYS 2D requires PHYS 2BL or 2CL. PHYS 130A requires 100B and 110A. PHYS 100B requires PHYS 100A, 105A and MATH 20F. The upper division prerequisites can be applied towards elective requirements.

* ECE 123 & 166 or ECE 135A & 135B or ECE 182 & (181 or 183): The 2 depth courses indicated * are not always offered in fall and winter, consult with the ECE Undergraduate Office for more detailed information or visit our website.