Transfer Plans
EE, EP, EE & Society 2016-2017

PLEASE NOTE: All courses used to satisfy major requirements must be taken for a LETTER GRADE. These plans assume that students have completed equivalent lower division MATH, PHYS and CHEM courses at the community college that are required for the major. Due to six different college requirements, only major requirements are listed.

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)

EE Majors only: PHYS 2DL

EP Majors only:
- MATH 18 (Linear Algebra)
- MATH 110A
- PHYS 110A
- PHYS 130A
- PHYS 130B
- PHYS 140A

EE & Society Majors only:
- 2 courses in Social Sciences/Humanities

Upper Division Requirements
- ECE 100 (Linear Electronic Systems)
- ECE 101 (Linear Systems Fundamentals)
- ECE 102 (Intro Active Circuit Design)
- ECE 103 (Fundamentals/Devices & Matrls)
- ECE 107 (Electromagnetism)
- ECE 109 (Eng. Probability & Stats)

DEPTHS:
EE Majors: 5 courses
- [ ] [ ] [ ] [ ] [ ]

EP Majors: 7 courses
- MATH 110A
- PHYS 110A
- PHYS 130A
- PHYS 130B
- PHYS 140A
- [ ] [ ]

EE & Society Majors: 6 courses
- [ ] [ ] [ ] [ ] [ ]

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

Electives:
EE Majors: 3 Professional and 4 Technical
- [ ] [ ] [ ] [ ] [ ]

EP Majors: 3 Professional and 2 Technical
- [ ] [ ] [ ]

EE & Society Majors: 4 Technical
- [ ] [ ] [ ] [ ]

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

Students must select an upper division ECE course to satisfy the 5th Depth course in the following sequences:
- Electronics Circuits & Systems: ECE 163, 164, 165, 166
- Electronic Devices & Materials: ECE 135A, ECE 135B, ECE 136L, ECE 183
- Machine Learning & Controls: ECE 171A, ECE 174, ECE 175A, one of ECE 171B, ECE 172A, or ECE 175B
- Photonics: ECE 181, ECE 182, ECE 183 and either ECE 184 or ECE 185
- Computer System Design: CSE 141, ECE 165 and any two of ECE 118, ECE 158A, ECE 111 or CSE 143
### ENGINEERING PHYSICS (B.S.)

<table>
<thead>
<tr>
<th></th>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 15</td>
<td>ECE 45</td>
<td>ECE 30</td>
<td></td>
</tr>
<tr>
<td>ECE 25</td>
<td>MATH 20E</td>
<td>ECE 65</td>
<td></td>
</tr>
<tr>
<td>ECE 35</td>
<td>PHYS 2D &amp; 2DL</td>
<td>ECE 107</td>
<td></td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 100</td>
<td>ECE 102</td>
<td>ECE 109</td>
<td></td>
</tr>
<tr>
<td>ECE 101</td>
<td>ECE 103</td>
<td>PHYS 130A</td>
<td></td>
</tr>
<tr>
<td>PHYS 110A</td>
<td>MATH 110A</td>
<td>Elective #1</td>
<td></td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth #1*</td>
<td>Depth #2*</td>
<td>Elective #3</td>
<td></td>
</tr>
<tr>
<td>PHYS 130B</td>
<td>Eng. Design</td>
<td>Elective #4</td>
<td></td>
</tr>
<tr>
<td>PHYS 140A</td>
<td>Elective #2</td>
<td>Elective #5</td>
<td></td>
</tr>
</tbody>
</table>

**Please Note:**
PHYS 2DL and PHYS 130A have prerequisites that are not listed above. PHYS 2DL requires PHYS 2BL or 2CL. PHYS 130A requires 100B and 110A. PHYS 100B requires PHYS 100A, 105A and MATH 18. 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.

### ELECTRICAL ENGINEERING AND SOCIETY (B.A.)

<table>
<thead>
<tr>
<th></th>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 15</td>
<td>ECE 45</td>
<td>ECE 30</td>
<td></td>
</tr>
<tr>
<td>ECE 25</td>
<td>MATH 20E</td>
<td>ECE 65</td>
<td></td>
</tr>
<tr>
<td>ECE 35</td>
<td>PHYS 2D</td>
<td>S/H Elective</td>
<td></td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 100</td>
<td>ECE 102</td>
<td>ECE 109</td>
<td></td>
</tr>
<tr>
<td>ECE 101</td>
<td>ECE 103</td>
<td>Elective #1</td>
<td></td>
</tr>
<tr>
<td>PHYS 110A</td>
<td>MATH 110A</td>
<td>Elective #2</td>
<td></td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth #1*</td>
<td>Depth #2*</td>
<td>Elective #3</td>
<td></td>
</tr>
<tr>
<td>PHYS 130B</td>
<td>Eng. Design</td>
<td>Elective #4</td>
<td></td>
</tr>
<tr>
<td>PHYS 140A</td>
<td>Elective #2</td>
<td>Elective #5</td>
<td></td>
</tr>
</tbody>
</table>

**PLEASE NOTE:** All courses used to satisfy major requirements must be taken for a LETTER GRADE.
These plans assume that students have completed equivalent lower division MATH, PHYS and CHEM courses at the community college that are required for the major.
Due to six different college requirements, only major requirements are listed.

ECE Undergraduate Student Affairs Office | Jacobs Hall 2701 & 2702 | ece.ucsd.edu
Questions? Go to vac.ucsd.edu