California State Polytechnic University, Pomona
Degree Curriculum Sheet

Plan (Major) ELECTRICAL ENGINEERING
Catalog Year 2010–2011
Minimum Units Required 198
Student ID ______________________
Evaluator ______________________
GWT Satisfied _____Yes ____No

Required Core Courses
Course | Units
--- | ---
Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Introduction to Electrical Engineering/Lab</td>
<td>ECE 109/109L 3/1</td>
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<tr>
<td>C for Engineers/Lab</td>
<td>ECE 114/114L 3/1</td>
</tr>
<tr>
<td>Introduction to Combinatorial Logic/Lab</td>
<td>ECE 204/204L 3/1</td>
</tr>
<tr>
<td>Introduction to Sequential Logic/Lab</td>
<td>ECE 205/205L 3/1</td>
</tr>
<tr>
<td>Network Analysis I/Lab</td>
<td>ECE 207/207L 3/1</td>
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<tr>
<td>Network Analysis II/Lab</td>
<td>ECE 209/209L 3/1</td>
</tr>
<tr>
<td>Electronic Devices &amp; Circuits/Lab</td>
<td>ECE 220/220L 4/1</td>
</tr>
<tr>
<td>Object-Oriented Programming</td>
<td>ECE 256 4</td>
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<tr>
<td>or Programming for Engineering Application</td>
<td>ECE 257 (4)</td>
</tr>
<tr>
<td>Electromagnetic Fields</td>
<td>ECE 302 4</td>
</tr>
<tr>
<td>Introduction Discrete Time Signals &amp; Systems</td>
<td>ECE 306 4</td>
</tr>
<tr>
<td>Computer Simulation of Dynamic Systems/Lab</td>
<td>ECE 306L 1</td>
</tr>
<tr>
<td>Network Analysis III</td>
<td>ECE 307 3</td>
</tr>
<tr>
<td>Control Systems Engineering/Lab</td>
<td>ECE 309/309L 4/1</td>
</tr>
<tr>
<td>Introduction to Power Engineering/Lab</td>
<td>ECE 310/310L 4/1</td>
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<tr>
<td>Prob, Stats, &amp; Random Processes for ECE</td>
<td>ECE 315 4</td>
</tr>
<tr>
<td>Linear Active Circular Design/Lab</td>
<td>ECE 320/320L 3/1</td>
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<tr>
<td>Introduction to Semiconductor Devices</td>
<td>ECE 330 3</td>
</tr>
<tr>
<td>Introduction to Microcontrollers/Lab</td>
<td>ECE 341/341L 3/1</td>
</tr>
<tr>
<td>Communications Systems/Lab</td>
<td>ECE 405/405L 4/1</td>
</tr>
<tr>
<td>Professional Topics for Engineers</td>
<td>ECE 464 1</td>
</tr>
<tr>
<td>Team Project</td>
<td>ECE 467 1</td>
</tr>
</tbody>
</table>

Total Units 77

Elective Core Courses
Course | Units
--- | ---
ECE Upper Division Electives | 21 |

12 of the 21 units must be 400 level courses. A minimum of one lab (either 300 or 400 level) is required. If a course has an associated lab, both must be taken.

Total Units 21

General Education Requirements
Area | Units | IGE (G.E. Alternative)
--- | --- | ---
Area A Communication & Critical Thinking | 12 | IGE 120 4
1 Oral Communication
2 Written Communication
3 Communication in a Global Society
4 Critical Thinking

Area B Mathematics & Natural Sciences | 16 | IGE 220 4
Select at least one lab course from sub-area 1 or 2.
1 Physical Science
2 Biological Science
3 Laboratory Activity
4 Math/Quantitative Reasoning
5 Science & Technology Synthesis

Area C Humanities | 16 | IGE 223 4
1 Visual and Performing Arts
2 Philosophy and Civilization
3 Literature and Foreign Language
4 Humanities Synthesis

Area D Social Sciences | 20 | IGE 224 4
1 U.S. History, Constitution, American Ideals
2 History, Economics and Political Science
3 Sociology, Anthropology, Ethnic & Gender Studies
4 Social Science Synthesis

Area E Lifelong Understanding & Self Development | 4 | IGE 225 4

Total Units 68

American Institutions
Courses that satisfy this requirement may also satisfy G.E. Area D1

American Cultural Perspectives Requirement
Refer to catalog for list of courses that satisfy this requirement.
Course may also satisfy major, minor, GE, or unrestricted elective requirements.

The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

Course | GE Area
--- | ---
General Physics/Lab | PHY 131/131L B1, B3
and General Chemistry Lab | CHM 121L B3
Analytic Geometry/Calculus I | MAT 114 B4
Project Design and Applications | EGR 481, 482 B5

The remaining GE requirements may be satisfied by any course approved for that area.

No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor’s degree. A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.
BS Electrical Engineering degree requirements include 21 units of upper division electives, and:
1- A minimum of one lab (either 300 or 400 level) is required.
2- If a course has an associated lab, both must be taken.
3- 12 of the 21 units must be 400 level courses