



**California State Polytechnic University, Pomona  
Degree Curriculum Sheet**

Plan (Major) ELECTRICAL ENGINEERING  
Subplan/Option \_\_\_\_\_

Catalog Year 2011-2012  
Minimum Units Required 198

Name \_\_\_\_\_  
Student ID \_\_\_\_\_

Evaluator \_\_\_\_\_  
GWT Satisfied \_\_\_\_\_ Yes \_\_\_\_\_ No

Required Core Courses		
Course		Units
<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.</i>		
Introduction to Electrical Engineering C for Engineers	ECE 109/109L	3/1
Introduction to Combinational Logic	ECE 114/114L	3/1
Introduction to Sequential Logic	ECE 204/204L	3/1
Network Analysis I	ECE 205/205L	3/1
Network Analysis II	ECE 207/207L	3/1
Electronic Devices & Circuits	ECE 209/209L	3/1
Object-Oriented Programming	ECE 220/220L	4/1
or Programming for Engineering Application	ECE 256	4
Electromagnetic Fields	ECE 257	(4)
Introduction Discrete Time Signals & Systems	ECE 302	4
Computer Simulation of Dynamic Systems Lab	ECE 306	4
Network Analysis III	ECE 306L	1
Control Systems Engineering	ECE 307	3
Introduction to Power Engineering	ECE 309/309L	4/1
Prob, Stats, & Random Processes for ECE	ECE 310/310L	4/1
Linear Active Circular Design	ECE 315	4
Introduction to Semiconductor Devices	ECE 320/320L	3/1
Introduction to Microcontrollers	ECE 330	3
Communications Systems	ECE 341/341L	3/1
Professional Topics for Engineers	ECE 405/405L	4/1
Team Project	ECE 464	1
	ECE 467	1
<b>Total Units</b>		<b>77</b>

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.	
<b>Total Units</b>	<b>21</b>

Required Support Courses		
Course		Units
General Chemistry	CHM 121	3
General Chemistry Lab (B3)	CHM 121L	1
Analytic Geometry/Calculus I (B4)	MAT 114	4
Analytic Geometry/Calculus II	MAT 115	4
Analytic Geometry/Calculus III	MAT 116	4
Calculus Several Variables I	MAT 214	3
Calculus Several Variables II	MAT 215	3
Linear Algebra & Differential Equations	MAT 224	4
Materials Science & Engineering	MTE 208	3
General Physics (B1, B3)	PHY 131/131L	3/1
General Physics	PHY 132/132L	3/1
General Physics	PHY 133/133L	3/1
Project Design and Applications (B5)	EGR 481, 482	4
<b>Total Units</b>		<b>45</b>

General Education Requirements		IGE (G.E. Alternative)
Area	Units	
<b>Area A Communication &amp; Critical Thinking</b>	<b>12</b>	IGE 120 4
1 Oral Communication		IGE 121 4
2 Written Communication		IGE 122 4
3 Critical Thinking		IGE 220 4
<b>Area B Mathematics &amp; Natural Sciences</b>	<b>16</b>	IGE 221 4
<i>Select at least one lab course from sub-area 1 or 2.</i>		
1 Physical Science		IGE 222 4
2 Biological Science		IGE 223 4
3 Laboratory Activity		IGE 224 4
4 Math/Quantitative Reasoning		Area A1 4
5 Science & Technology Synthesis		Area A3 4
<b>Area C Humanities</b>	<b>16</b>	Area B 16
1 Visual and Performing Arts		Area C1, C2 or C3 4
2 Philosophy and Civilization		Area C4 4
3 Literature and Foreign Language		Area D4 4
4 Humanities Synthesis		
<b>Area D Social Sciences</b>	<b>20</b>	See University Catalog for information on how IGE meets G.E. requirements.
1 U.S. History, Constitution, American Ideals		
2 History, Economics and Political Science		
3 Sociology, Anthropology, Ethnic & Gender Studies		
4 Social Science Synthesis		
<b>Area E Lifelong Understanding &amp; Self Development</b>	<b>4</b>	
<b>Total Units</b>		<b>68</b>

<b>American Institutions</b>	
Courses that satisfy this requirement may also satisfy G.E. Area D1	8

<b>American Cultural Perspectives Requirement</b>	
Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.	4

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

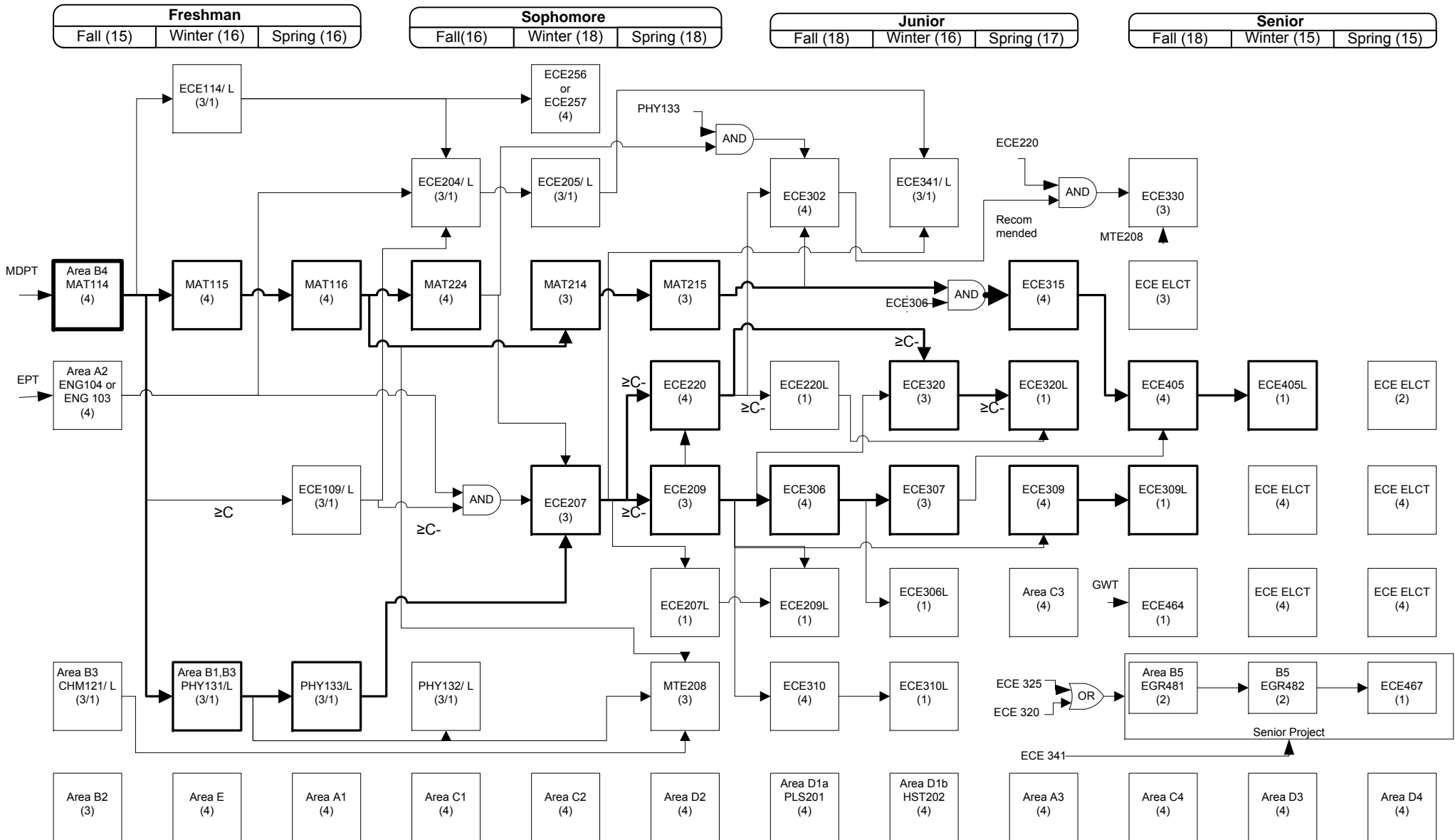
The remaining GE requirements may be satisfied by any course approved for that area.

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.

# Electrical Engineering Curriculum Flow Chart

Year 2011/2012

Name: \_\_\_\_\_



**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