



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

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

Catalog Year 2007-2008  
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/Lab C for Engineers/Lab	ECE 109/L	4
Introduction to Combinational Logic/Lab	ECE 114/L	4
Introduction to Sequential Logic/Lab	ECE 204/L	4
Network Analysis I/Lab	ECE 205/L	4
Network Analysis II/Lab	ECE 207/L	4
Electronic Devices & Circuits/Lab	ECE 209/L	4
Object-Oriented Programming	ECE 220/L	5
or Programming for Engineering Application	ECE 256	4
Electromagnetic Fields	ECE 257 (4)	(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/Lab	ECE 307	3
Introduction to Power Engineering/Lab	ECE 309/L	5
Prob, Stats, & Random Processes for ECE	ECE 310/L	5
Linear Active Circular Design/Lab	ECE 315	4
Introduction to Semiconductor Devices	ECE 320/L	4
Introduction to Microcontrollers/Lab	ECE 330	3
Communications Systems/Lab	ECE 341/L	4
Professional Topics for Engineers	ECE 405/L	5
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
Select from department's specified program of electives list with advisor's approval.	
<b>Total Units</b>	<b>21</b>

Required Support Courses			IGE (G.E. Alternative)	
Course		Units		
General Chemistry	CHM 121	3	IGE 120	4
General Chemistry Lab (B2)	CHM 121L	1	IGE 121	4
Analytic Geometry/Calculus I (B1)	MAT 114	4	IGE 122	4
Analytic Geometry/Calculus II	MAT 115	4	IGE 220	4
Analytic Geometry/Calculus III	MAT 116	4	IGE 221	4
Calculus Several Variables I	MAT 214	3	IGE 222	4
Calculus Several Variables II	MAT 215	3	IGE 223	4
Linear Algebra & Differential Equations	MAT 224	4	IGE 224	4
Materials Science & Engineering	MTE 208	3	Area A2	4
General Physics/Lab (B2)	PHY 131/L	4	Area A3	4
General Physics/Lab	PHY 132/L	4	Area B	16
General Physics/Lab	PHY 133/L	4	Area C1, C2	
Project Design and Applications (B4)	EGR 481, 482	4	or C3	4
Ethical Consid. in Tech. & Appl Sci. (C4)	EGR 402	4	Area C4	4
			Area D4	4
			See University Catalog for information on how IGE meets G.E. requirements.	
<b>Total Units</b>		<b>49</b>		

General Education Requirements	
Area	Units
<b>Area A Communication &amp; Critical Thinking</b>	<b>12</b>
1 Written Communication	
2 Oral Communication	
3 Critical Thinking	
<b>Area B Mathematics &amp; Natural Sciences</b>	<b>16</b>
<i>Select at least one lab course from sub-area 2 or 3.</i>	
1 Math/Quantitative Reasoning	
2 Physical Science	
3 Biological Science	
4 Science & Technology Synthesis	
<b>Area C Humanities</b>	<b>16</b>
1 Fine and Performing Arts	
2 Philosophy and Civilization	
3 Literature and Foreign Language	
4 Humanities Synthesis	
<b>Area D Social Sciences</b>	<b>20</b>
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>

American Institutions	Units
Courses that satisfy this requirement may also satisfy G.E. Areas D1.a and D1.b	8

American Cultural Perspectives Requirement	Units
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
Analytic Geometry/Calculus I	MAT 114 B1
General Physics/Lab	PHY 131/L B2
General Chemistry Lab	CHM 121L B2
Project Design and Applications	EGR 481, 482 B4
Ethical Consid. in Tech. & Appl Science	EGR 402 C4

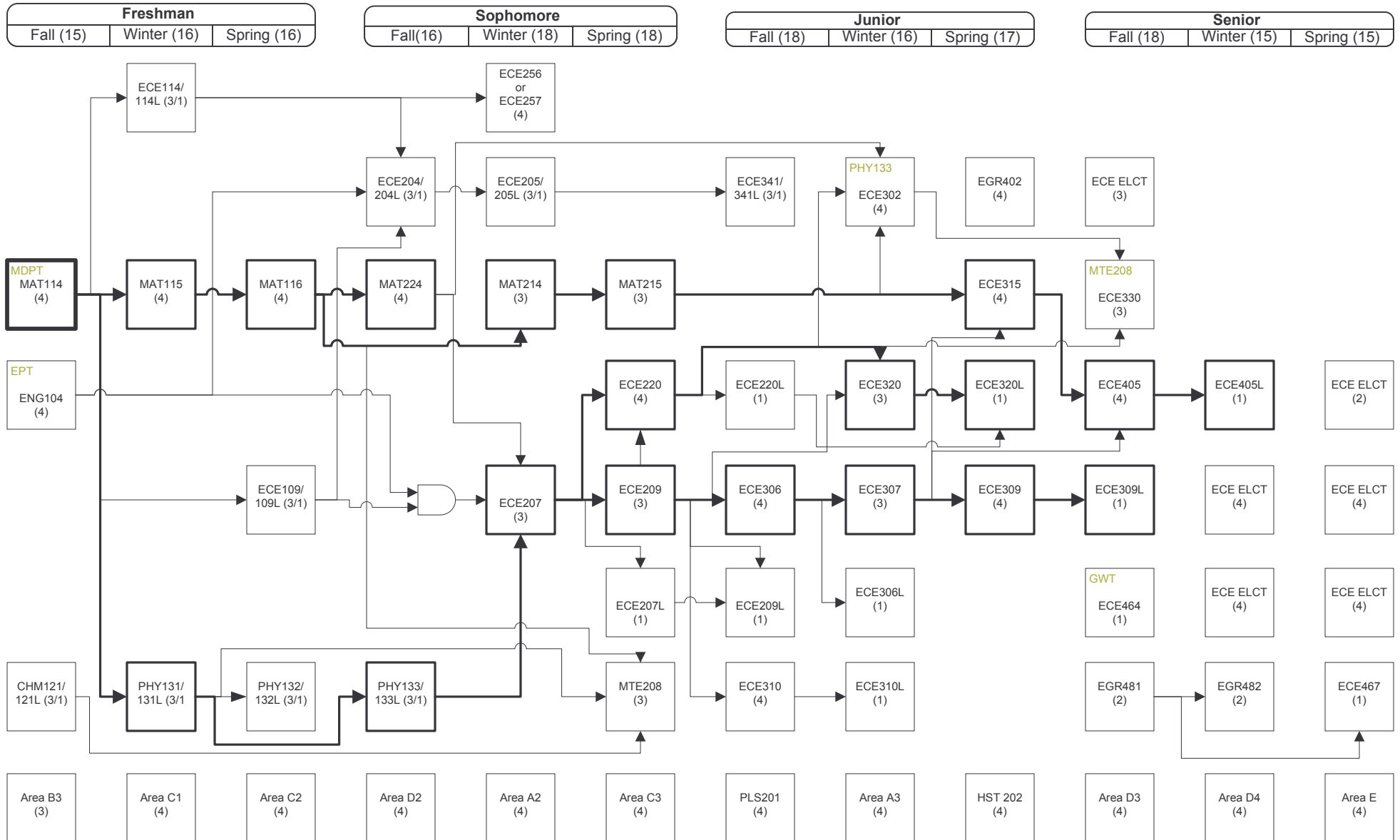
The remaining GE requirements may be satisfied by any course approved for that area.

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 2007/2008

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



**Electrical and Computer Engineering Department**  
**Electrical Engineering Major**  
**Curriculum Year: 2007-2008**

*Your department has developed this road plan, taking into account prerequisites and schedule restrictions.  
 You should pay attention to these concerns when deviating from this plan.*

	Fall	Units	Winter	Units	Spring	Units	Comment
<b>Year 1</b>	<b>CHM 121/121L</b> Major Support	4	<b>ECE 114/114L</b> Major Core	4	<b>MAT 116</b> Major Support	4	<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.</i>  <i>MAT 114, PHY 131/131L, PHY 132L, EGR 402, EGR 481, and EGR 482 satisfy both major and general education requirements</i>  <i>One course must be completed in each of the GE areas A2-3, B1-3, C1-3, D3, and E.</i>
	<b>MAT 114</b> GE Area B1	4	<b>MAT 115</b> Major Support	4	<b>ECE 109/109L</b> Major Core	4	
	<b>ENG 104</b> GE Area A1	4	<b>PHY 131/131L</b> GE Area B2	4	<b>PHY 132/132L</b> Major Support	4	
	<b>GE Area</b> Any approved course in area B3, C1-3, D3-4, or E	3	<b>GE Area</b> Any approved course in area B3, C1-3, D3-4, or E	4	<b>GE Area</b> Any approved course in area B3, C1-3, D3-4, or E	4	
	<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>16</b>	
	<b>Total Units for Year</b>						
<b>Year 2</b>	<b>ECE 204/204L</b> Major Core	4	<b>ECE 256 or ECE 257</b> Major Core	4	<b>MAT 215</b> Major Support	3	
	<b>MAT 224</b> Major Support	4	<b>ECE 205/205L</b> Major Core	4	<b>ECE 220</b> Major Core	4	
	<b>PHY 133/133L</b> Major Support	4	<b>MAT 214</b> Major Support	3	<b>ECE 209</b> Major Core	3	
	GE Area D2	4	<b>ECE 207</b> Major Core	3	<b>MTE 208</b> Major Support	3	
			GE Area A2	4	<b>GE Area</b> Any approved course in area B3, C1-3, D3-4, or E	4	
					<b>ECE 207L</b> Major Core	1	
	<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>18</b>	<b>Total Units</b>	<b>18</b>	
	<b>Total Units for Year</b>						

Year 3	Fall	Units	Winter	Units	Spring	Units	Comment	
	<b>ECE 341/341L</b> Major Core	4	<b>ECE 302</b> Major Core	4	<b>ECE 320L</b> Major Core	1	<i>Select from department's specified program of electives list with advisor's approval for "ECE Elective".</i>	
	<b>ECE 220L</b> Major Core	1	<b>ECE 320</b> Major Core	3	<b>ECE 315</b> Major Core	4		
	<b>ECE 306</b> Major Core	4	<b>ECE 307</b> Major Core	3	<b>ECE 309</b> Major Core	4		
	<b>ECE 310</b> Major Core	4	<b>ECE 306L</b> Major Core	1	<b>EGR 402</b> GE Area C4	4		
	<b>ECE 209L</b> Major Core	1	<b>ECE 310L</b> Major Core	1	<b>HST 202</b> GE Area D1b	4		
	<b>PLS 201</b> GE Area D1a	4	<b>GE Area A3</b>	4				
	<i>Take the Graduation Writing Test</i>							
<b>Total Units</b>	<b>18</b>	<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>17</b>			
					<b>Total Units for Year</b>	<b>51</b>		

Year 4	Fall	Units	Winter	Units	Spring	Units	Comment
	<b>ECE 330</b> Major Core	3	<b>ECE Elective</b> Major Core	4	<b>ECE Elective</b> Major Core	2	<i>All GE Area A courses and all lower division GE courses in a GE area must be completed before taking the GE Synthesis course in that area.</i>
	<b>ECE 405</b> Major Core	4	<b>ECE 405L</b> Major Core	1	<b>ECE Elective</b> Major Core	4	
	<b>ECE 464</b> Major Core	1	<b>ECE Elective</b> Major Core	4	<b>ECE Elective</b> Major Core	4	
	<b>ECE Elective</b> Major	3	<b>EGR 482</b> GE Area B4	2	<b>ECE 467</b> Major Core	1	
	<b>ECE 309L</b> Major Core	1	<b>GE Area</b> Any approved course in area B3, C1-3, D3-4, or E	4	<b>GE Area</b> Any approved course in area B3, C1-3, D3-4, or E	4	
	<b>EGR 481</b> GE Area B4	2					
	<b>GE Area</b> Any approved course in area B3, C1-3, D3-4, or E	4					
			<i>Request a graduation check</i>		<i>File an application to graduate</i>		
<b>Total Units</b>	<b>18</b>	<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15</b>		
					<b>Total Units for Year</b>	<b>48</b>	

<b>Total Units on Plan</b>	<b>198</b>	
<b>Major Core Units</b>	<b>98</b>	
<b>Major Support Units</b>	<b>32</b>	
<b>General Education Units</b>	<b>68</b>	
<b>Unrestricted Elective Units</b>	<b>0</b>	