



**California State Polytechnic University, Pomona  
DEGREE REQUIREMENT EVALUATION**

ELM Satisfied	___ Yes ___ No
EPT Satisfied	___ Yes ___ No
GWT Satisfied	___ Yes ___ No

MAJOR (PLAN) **ELECTRICAL ENGINEERING** NAME \_\_\_\_\_  
 OPTION/EMPHASIS (SUB-PLAN) \_\_\_\_\_ LAST \_\_\_\_\_ FIRST \_\_\_\_\_ MI \_\_\_\_\_  
 UNITS REQUIRED FOR A BACHELOR'S DEGREE **198** STUDENT I.D. # \_\_\_\_\_

TERM ADMITTED \_\_\_\_\_ YEAR: **2006-2007**

EVALUATOR \_\_\_\_\_

DATE \_\_\_\_\_

UPDATES \_\_\_\_\_

CORE COURSES	Units	SUPPORT COURSES	Units	IGE	GENERAL EDUCATION. Students may fulfill these requirements at Cal Poly Pomona with the General Education (GE) or the Interdisciplinary General Education (IGE) Programs. Select courses from approved lists shown in the Schedule of Classes unless specified.																																																											
Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.		General Chemistry CHM 121/121L	4	IGE 120 4	<table border="1"> <thead> <tr> <th colspan="2">GENERAL EDUCATION COURSES</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Area A Communication &amp; Critical Thinking</b></td> </tr> <tr> <td>1</td> <td>Written Communication</td> <td rowspan="3">12</td> </tr> <tr> <td>2</td> <td>Oral Communication</td> </tr> <tr> <td>3</td> <td>Critical Thinking</td> </tr> <tr> <td colspan="3"><b>Area B Mathematics &amp; Natural Sciences</b></td> </tr> <tr> <td>1</td> <td>Math/Quantitative Reasoning</td> <td rowspan="4">16</td> </tr> <tr> <td>2</td> <td>Physical Science</td> </tr> <tr> <td>3</td> <td>Biological Science</td> </tr> <tr> <td>4</td> <td>Science &amp; Technology Synthesis</td> </tr> <tr> <td colspan="3"><b>Area C Humanities</b></td> </tr> <tr> <td>1</td> <td>Fine and Performing Arts</td> <td rowspan="4">16</td> </tr> <tr> <td>2</td> <td>Philosophy and Civilization</td> </tr> <tr> <td>3</td> <td>Literature and Foreign Language</td> </tr> <tr> <td>4</td> <td>Humanities Synthesis</td> </tr> <tr> <td colspan="3"><b>Area D Social Sciences</b></td> </tr> <tr> <td>1</td> <td>U.S. History, Constitution, American Ideals:</td> <td rowspan="4">20</td> </tr> <tr> <td></td> <td>a. Political Science</td> </tr> <tr> <td></td> <td>b. U.S. History</td> </tr> <tr> <td>2</td> <td>History, Economics and Political Science</td> </tr> <tr> <td>3</td> <td>Sociology, Anthropology, Ethnic &amp; Gender Studies</td> </tr> <tr> <td>4</td> <td>Social Science Synthesis</td> </tr> <tr> <td colspan="3"><b>Area E Lifelong Understanding &amp; Self Development</b></td> </tr> <tr> <td></td> <td>Lifelong Understanding</td> <td>4</td> </tr> </tbody> </table>	GENERAL EDUCATION COURSES		Units	<b>Area A Communication &amp; Critical Thinking</b>			1	Written Communication	12	2	Oral Communication	3	Critical Thinking	<b>Area B Mathematics &amp; Natural Sciences</b>			1	Math/Quantitative Reasoning	16	2	Physical Science	3	Biological Science	4	Science & Technology Synthesis	<b>Area C Humanities</b>			1	Fine and Performing Arts	16	2	Philosophy and Civilization	3	Literature and Foreign Language	4	Humanities Synthesis	<b>Area D Social Sciences</b>			1	U.S. History, Constitution, American Ideals:	20		a. Political Science		b. U.S. History	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>				Lifelong Understanding	4
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Introduction to Electrical Engineering ECE 109/109L	4	Analytic Geometry/Calculus II MAT 115	4	IGE 121 4																																																												
C for Engineers ECE 114/114L	4	Analytic Geometry/Calculus III MAT 116	4	IGE 122 4																																																												
Introduction to Combinational Logic ECE 204/204L	4	Calculus Several Variables I MAT 214	3	IGE 220 4																																																												
Introduction to Sequential Logic ECE 205/205L	4	Calculus Several Variables II MAT 215	3	IGE 221 4																																																												
Network Analysis I ECE 207/207L	4	Linear Algebra & Differential Equations MAT 224	4	IGE 222 4																																																												
Network Analysis II ECE 209/209L	4	Materials Science & Engineering MTE 208	3	IGE 223 4																																																												
Electronic Devices & Circuits ECE 220/220L	5	General Physics PHY 132	3	IGE 224 4																																																												
Object-Oriented Programming ECE 256	4	General Physics PHY 133/L	4	COM 204 4																																																												
or Programming for Engineering Application ECE 257	(4)			<u>ECE 311</u> 4																																																												
Electromagnetic Fields ECE 302	4	Freshman English* (A1) ENG 104	4	EC 201/202 4																																																												
Introduction Discrete Time Signals & Systems ECE 306	4	Advocacy and Argument* (A2) COM 204	4	Area B 16																																																												
Computer Simulation of Dynamic Systems ECE 306L	1	Analytic Geometry/Calculus I* (B1) MAT 114	4	Area C4 4																																																												
Network Analysis III ECE 307	3	General Physics* (B2) PHY 131/131L, 132L	5	Area D4 4																																																												
Control Systems Engineering ECE 309/309L	5	Project Design and Applications* (B4) EGR 481, 482	4																																																													
Introduction to Power Engineering ECE 310/310L	5	Ethical Consid. in Tech. & Appl Sci.* (C4) EGR 402	4																																																													
Prob, Stats, & Random Processes for ECE ECE 315	4	American Government* (D1a) PLS 201	4																																																													
Linear Active Circular Design ECE 320/320L	4	U.S. History* (D1b) HST 202	4																																																													
Introduction to Semiconductor Devices ECE 330	3	Principles of Economics* (D2) EC 201 or 202	4																																																													
Introduction to Microcontrollers ECE 341/341L	4																																																															
Communications Systems ECE 405/405L	5	Courses marked with an * may be used to satisfy GE requirements. If these courses are not used to satisfy GE, the total units to degree may be more than 198 units.																																																														
Professional Topics for Engineers ECE 464	1																																																															
Team Project ECE 467	1																																																															
ECE Upper Division Electives**	21																																																															
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NOT MORE THAN 105 UNITS FROM A COMMUNITY COLLEGE NOR MORE THAN 36 UNITS OF EXTENSION WORK MAY BE APPLIED TOWARD A BACHELOR'S DEGREE.  
 A 2.0 CUMULATIVE GPA IS REQUIRED IN CORE COURSES INCLUDING OPTION COURSES IN ORDER TO RECEIVE A DEGREE IN THIS MAJOR.

**Electrical and Computer Engineering Department**  
**Electrical Engineering Major**  
**Curriculum Year: 2006-2007**

*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	<p><i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.</i></p> <p><i>MAT 114, PHY 131/131L, PHY 132L, EGR 402, EGR 481, and EGR 482 satisfy both major and general education requirements</i></p> <p><i>One course must be completed in each of the GE areas A2-3, B1-3, C1-3, D3, and E.</i></p>
	<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 216</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	
	<b>EC 201 or EC 202</b> GE Area D2	4	<b>ECE 207</b> Major Core	3	<b>MTE 208</b> Major Support	3	
			<b>COM 204</b> 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>ECE 311 or Elective</b> GE Area A3	4	
	<b>PLS 201</b> GE Area D1a	4	<b>HST 202</b> GE Area D1b	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>	

# Electrical Engineering Curriculum Flow Chart

Year 2006/2007

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

