



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

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

MAJOR (PLAN) **COMPUTER 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	<b>GENERAL EDUCATION COURSES</b>
Introduction to Electrical Engineering ECE 109/109L	4	Analytic Geometry/Calculus II MAT 115	4	IGE 121 4	<b>Area A Communication &amp; Critical Thinking</b> <b>12</b>
C for Engineers ECE 114/114L	4	Analytic Geometry/Calculus III MAT 116	4	IGE 122 4	1 Written Communication
Discrete Structures ECE 130	4	Calculus of Several Variables I MAT 214	3	IGE 220 4	2 Oral Communication
Introduction to Combinational Logic ECE 204/204L	4	Calculus of Several Variables II MAT 215	3	IGE 221 4	3 Critical Thinking
Introduction to Sequential Logic ECE 205/205L	4	Linear Algebra & Differential Equations MAT 224	4	IGE 222 4	<b>Area B Mathematics &amp; Natural Sciences</b> <b>16</b>
Network Analysis I ECE 207/207L	4	General Physics PHY 132	3	IGE 223 4	1 Math/Quantitative Reasoning
Network Analysis II ECE 209/209L	4	General Physics PHY 133/L	4	IGE 224 4	2 Physical Science*
Electronic Devices and Circuits ECE 220/220L	5	Freshman English* (A1) ENG 104	4	COM 204 4	3 Biological Science
Object-Oriented Programming ECE 256	4	Advocacy & Argument* (A2) COM 204	4	EC 201/202 4	4 Science & Technology Synthesis
Electromagnetic Fields ECE 302	4	Analytic Geometry & Calculus I* (B1) MAT 114	4	Area B 16	<b>Area C Humanities</b> <b>16</b>
Data Structures for Engineers ECE 304	4	General Physics* (B2) PHY 131/L, 132L	5	Area C4 4	1 Fine and Performing Arts
Introduction to Discrete Time Signals & System ECE 306	4	Project Design & Application* (B4) EGR 481, 482	4	Area D4 4	2 Philosophy and Civilization
Comp Simulation of Dynamic Systems ECE 306L	1	Ethical Cons. in Tech. & Appl. Sci.* (C4) EGR 402	4		3 Literature and Foreign Language
Control Systems Engineering ECE 309/309L	5	American Government* (D1a) PLS 201	4		4 Humanities Synthesis
Prob, Stats, & Random Processes for ECE ECE 315	4	U.S. History* (D1b) HST 202	4		<b>Area D Social Sciences</b> <b>20</b>
Electronic Design for Digital Circuits ECE 325/325L	4	Principles of Economics* (D2) EC 201 or 202	4		1 U.S. History, Constitution, American Ideals: a. Political Science
Introduction to Microcontrollers ECE 341/341L	4				b. U.S. History
Computer Organization ECE 342/342L	5				2 History, Economics and Political Science
OR Microprocessor I ECE 343/343L	(5)				3 Sociology, Anthropology, Ethnic & Gender Studies
Digital Design using Verilog HDL ECE 415/415L	4				4 Social Science Synthesis
OR State Machine Design using VHDL ECE 424/424L	(4)				<b>Area E Lifelong Understanding &amp; Self Development</b> <b>4</b>
Computer Architecture ECE 425/425L	4				Lifelong Understanding
Operating Systems ECE 426/426L	4				
Applications Development using Java ECE 429	4				
Computer Networks ECE 431/431L	5				
OR TCP/IP Internetworking ECE 433/433L	(4)				
Professional Topics for Engineers and Senior Design Team Project ECE 464, 467	1,1				
Software Engineering ECE 480	4				
		<p>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.</p>			
		<p><b>SUMMARY OF ADVANCED STANDING CREDIT:</b>            Earned Hours _____            G.P.A. Hours _____            Quality Points _____            G.P.A. _____</p>			

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**  
**Computer 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.*

Year 1	Fall	Units	Winter	Units	Spring	Units	Comment
	<b>CHM 121/121L</b> Major Support	4	<b>ECE 114/114L</b> Major Core	4	<b>ECE 109/109L</b> Major Core	4	<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.                       MAT 114, PHY 131/131L, PHY 132L, EGR 402, EGR 481, and EGR 482 satisfy both major and general education requirements                       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>MAT 116</b> Major Support	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>47</b>		

Year 2	Fall	Units	Winter	Units	Spring	Units	Comment
	<b>ECE 204/204L</b> Major Core	4	<b>ECE 205/205L</b> Major Core	4	<b>ECE 209</b> Major Core	3	
	<b>ECE 130</b> Major Core	4	<b>ECE 207</b> Major Core	3	<b>ECE 220</b> Major Core	4	
	<b>MAT 216</b> Major Support	4	<b>ECE 256</b> Major Core	4	<b>MAT 215</b> Major Support	3	
	<b>PHY 133/133L</b> Major Support	4	<b>MAT 214</b> Major Support	3	<b>ECE 207L</b> Major Core	1	
	<b>EC 201 or EC 202</b> GE Area D2	4	<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>Total Units</b>	<b>20</b>	<b>Total Units</b>	<b>18</b>	<b>Total Units</b>	<b>15</b>		
<b>Total Units for Year</b>					<b>53</b>		

Year 3	Fall	Units	Winter	Units	Spring	Units	Comment
	<b>ECE 429</b> Major Core	4	<b>ECE 304</b> Major Core	4	<b>ECE 415/415L or ECE 424/424L</b> Major	4	
	<b>ECE 341/341L</b> Major Core	4	<b>ECE 325/325L</b> Major Core	4	<b>ECE 315</b> Major Core	4	
	<b>ECE 220L</b> Major Core	1	<b>ECE 309</b> Major Core	4	<b>ECE 342/342L or ECE343/343L</b> Major	5	
	<b>ECE 306</b> Major Core	4	<b>ECE 306L</b> Major Core	1	<b>ECE 209L</b> Major Core	1	
	<b>ECE 209L</b> Major Core	1	<b>HST 202</b> GE D1b	4	ECE 311 or Elective GE A3	4	
	<b>PLS 201</b> GE Area D1a	4					
	<i>Take the Graduation Writing Test</i>						
<b>Total Units</b>	<b>18</b>	<b>Total Units</b>	<b>17</b>	<b>Total Units</b>	<b>18</b>	<b>Total Units for Year</b>	<b>53</b>

Year 4	Fall	Units	Winter	Units	Spring	Units	Comment
	<b>ECE 431/431L or ECE 433/433L</b> Major Core	5	<b>ECE 426/426L</b> Major Core	4	<b>ECE 480</b> Major Core	4	<i>Upper division ECE elective units may vary depending on selection of ECE 431/433.</i>
	<b>ECE 425/425L</b> Major Core	4	<b>ECE 302</b> Major Core	4	<b>ECE 467</b> Major Core	1	<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 464</b> Major Core	1	<b>EGR 402</b> GE Area C4	4	<b>ECE Elective</b> Major Core	2	
	<b>EGR 481</b> GE Area B4	2	<b>EGR 482</b> GE Area B4	2	<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>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 for graduation</i>		
	<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>14</b>	<b>Total Units</b>	<b>15</b>	<b>Total Units for Year</b>

<b>Total Units on Plan</b>	<b>198</b>
<b>Major Core Units</b>	<b>101</b>
<b>Major Support Units</b>	<b>29</b>
<b>General Education Units</b>	<b>68</b>
<b>Unrestricted Elective Units</b>	<b>0</b>



# Computer Engineering Curriculum Flow Chart

Year 2006/2007

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

