



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

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

MAJOR **COMPUTER ENGINEERING (5300)**

OPTION/EMPHASIS _____

UNITS REQUIRED **202**

NAME _____
 LAST FIRST MI

STUDENT I.D. # _____

TERM ADMITTED _____ YEAR: **2004-2005**

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.																																																																					
<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.</i>																																																																										
Intro to EE	ECE 109/109L 4	Gen 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">Area A Communication and Critical Thinking–12 units</td> </tr> <tr> <td>1</td> <td>ENG 104</td> <td>4</td> </tr> <tr> <td>2</td> <td>COM 204</td> <td>4</td> </tr> <tr> <td>3</td> <td>ECE 311 or Elective</td> <td>4</td> </tr> <tr> <td colspan="3">Area B Math and Natural Sciences–16 units</td> </tr> <tr> <td>1</td> <td><u>MAT 114</u></td> <td>4</td> </tr> <tr> <td>2</td> <td><u>PHY 131/131L, 132L</u></td> <td>5</td> </tr> <tr> <td>3</td> <td>Biological Science</td> <td>3</td> </tr> <tr> <td>4</td> <td><u>EGR 481, 482</u></td> <td>4</td> </tr> <tr> <td colspan="3">Area C Humanities– 16 units</td> </tr> <tr> <td>1</td> <td>Fine/Performing Arts</td> <td>4</td> </tr> <tr> <td>2</td> <td>Philosophy and Civilization</td> <td>4</td> </tr> <tr> <td>3</td> <td>Literature and Foreign Language</td> <td>4</td> </tr> <tr> <td>4</td> <td><u>EGR 402</u></td> <td>4</td> </tr> <tr> <td colspan="3">Area D Social Sciences– 20 units</td> </tr> <tr> <td>1a</td> <td>PLS 201</td> <td>4</td> </tr> <tr> <td>1b</td> <td>HST 202</td> <td>4</td> </tr> <tr> <td>2</td> <td>EC 201 or 202</td> <td>4</td> </tr> <tr> <td>3</td> <td>PLS/SOC 390</td> <td>4</td> </tr> <tr> <td>4</td> <td>Social Science Synthesis</td> <td>4</td> </tr> <tr> <td colspan="3">Area E Lifelong Understanding and Self-Development–4 units</td> </tr> <tr> <td colspan="3"><u>Underlined courses</u> satisfy both major and general education requirements.</td> </tr> </tbody> </table>	GENERAL EDUCATION COURSES		Units	Area A Communication and Critical Thinking–12 units			1	ENG 104	4	2	COM 204	4	3	ECE 311 or Elective	4	Area B Math and Natural Sciences–16 units			1	<u>MAT 114</u>	4	2	<u>PHY 131/131L, 132L</u>	5	3	Biological Science	3	4	<u>EGR 481, 482</u>	4	Area C Humanities– 16 units			1	Fine/Performing Arts	4	2	Philosophy and Civilization	4	3	Literature and Foreign Language	4	4	<u>EGR 402</u>	4	Area D Social Sciences– 20 units			1a	PLS 201	4	1b	HST 202	4	2	EC 201 or 202	4	3	PLS/SOC 390	4	4	Social Science Synthesis	4	Area E Lifelong Understanding and Self-Development–4 units			<u>Underlined courses</u> satisfy both major and general education requirements.		
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C for Engineers	ECE 114/114L 4	Anal Geom/Calculus II	MAT 115 4	IGE 121 4																																																																						
Discrete Structures	ECE 130 4	Anal Geom/Calculus III	MAT 116 4	IGE 122 4																																																																						
Intro to Combinational Logic	ECE 204/204L 4	Calculus Sev Var I	MAT 214 3	IGE 220 4																																																																						
Intro to Sequential Logic	ECE 205/205L 4	Calculus Sev Var II	MAT 215 3	IGE 221 4																																																																						
Network Analysis I	ECE 207/207L 4	Diff Equations	MAT 216 4	IGE 222 4																																																																						
Network Analysis II	ECE 209/209L 4	Mechanics for ECE Majors	ME 217 4	IGE 223 4																																																																						
Electronic Devices and Circuits	ECE 220/220L 5	Gen Physics	PHY 132 3	IGE 224 4																																																																						
Object-Oriented Programming	ECE 256 4	Gen Physics	PHY 133/L 4	COM 204 4																																																																						
Electromagnetic Fields	ECE 302 4			<u>ECE 311</u> 4																																																																						
Data Structures for Engineers	ECE 304 4			EC 201/202 4																																																																						
Intro Disc Time Sig and Sys	ECE 308 4			Area B 16																																																																						
Comp Simulation of Dyn Sys	ECE 308L 1			Area C4 4																																																																						
Control Systems Engineering	ECE 309/309L 5			Area D4 4																																																																						
Prob, Stats, & Random Processes for ECE	ECE 315 4																																																																									
Electronic Design for Digital Circuits	ECE 325/325L 4																																																																									
Intro to Microcontrollers	ECE 341/341L 4																																																																									
Computer Organization	ECE 342/342L 5																																																																									
OR Microprocessor I	ECE 343/343L (5)																																																																									
Digital Design using Verilog HDL	ECE 415 4																																																																									
Computer Architecture	ECE 425/425L 4																																																																									
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																																																																									
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**May vary depending upon the selection of ECE 307/308, and ECE 431/433.																																																																										
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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.

Computer Engineering Curriculum Flow Chart

Year 2004/2005

Name: _____

Freshman		
Fall (15)	Winter (16)	Spring (16)

Sophomore		
Fall(20)	Winter (18)	Spring(19)

Junior		
Fall (18)	Winter (17)	Spring (18)

Senior		
Fall (15/16)	Winter (14)	Spring(15)

