

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

DI (1.4 :)	COMPUTED	CHCINEEDING
Plan (Maior)	LUMPUIEK	ENGINEERING

2011-2012 Catalog Year_ Name_ Minimum Units Required Subplan/Option 198 Student ID

Required Core Courses		
Course		Units
Students in this major are expected to maintain a GPA of at least		
2.00 in all core courses.		
Introduction to Electrical Engineering	ECE 109/109L	3/1
C for Engineers	ECE 114/114L	3/1
Discrete Structures	ECE 130	4
Introduction to Combinational Logic	ECE 204/204L	3/1
Introduction to Sequential Logic	ECE 205/205L	3/1
Network Analysis I	ECE 207/207L	3/1
Network Analysis II	ECE 209/209L	3/1
Electronic Devices and Circuits	ECE 220/220L	4/1
Object-Oriented Programming	ECE 256	4
Elecromagnetic Fields	ECE 302	4
Data Structures for Engineers	ECE 304	4
Introduction to Disctrete Time Signals & System	ECE 306	4
Comp Simulation of Dynamic Systems Lab	ECE 306L	1
Control Systems Engineering	ECE 309/309L	4/1
Prob, Stats, & Random Processes for ECE	ECE 315	4
Electronic Design for Digital Circuits	ECE 325/325L	3/1
Introduction to Microcontrollers	ECE 341/341L	3/1
Computer Architecture	ECE 425/425L	3/1
Operating Systems	ECE 426/426L	3/1
Computer Networks	ECE 431/431L	3/1
or TCP/IP Internetworking	ECE 433/433L	(3/1)
Professional Topics for Engineers	ECE 464, 467	1,1
and Senior Design Team Project		
Software Engineering	ECE 480	4
	Total Units	85

Elective Core Courses	
Course	Units
ECE Upper Division Electives* At least 12 of the electives must be satisfied by selecting courses from the following list. The rest of the elective units can be satisfied by selecting courses from the upper division ECE courses. If a course with an associated lab is selected both must be taken. ECE 342/342L, ECE 343/343L, ECE 404/404L, ECE 408/408L, ECE 414/414L, ECE 415/415L, ECE 423, ECE 423L, ECE 424/424L, ECE 428, ECE 429, ECE 432/432L, ECE 439, ECE 499 (with advisor approval).	16
Total Units	16

Course		Units
General Chemistry	CHM 121	3
General Chemistry Lab (B3)	CHM 121L	1
Project Design & Application (B5)	EGR 481, 482	4
Analytic Geometry/Calculus I (B4)	MAT 114	4
Analytic Geometry/Calculus II	MAT 115	4
Analytic Geometry/Calculus III	MAT 116	4
Calculus of Several Variables I	MAT 214	3
Calculus of Several Variables II	MAT 215	
Linear Algebra & Differential Equations	MAT 224	4
General Physics (B1, B3)	PHY 131/131L	3/1
General Physics	PHY 132/132L	3/1
General Physics	PHY 133/133L	3/1
	Total Units	42

General	LEducation Requirements		IGE (G.E	:
Area	•	Units	Alternati	
Area A	Communication & Critical Thinking	12	IGE 120	4
1	Oral Communication		IGE 121	4
2	Written Communication		IGE 122	4
3	Critical Thinking		IGE 220	4
Area B	Mathematics & Natural Sciences	16	IGE 221	4
Select a	t least one lab course from sub-area 1 or 2.		IGE 222	4
1	Physical Science		IGE 223	4
2	Biological Science		IGE 224	4
3	Laboratory Activity		Area A1	4
4	Math/Quantitative Reasoning		Area A3	4
5	Science & Technology Synthesis		Area B	16
	Humanities	16	Area C1, C	2,
1	Visual and Performing Arts		or C3	4
2	Philosophy and Civilization		Area C4	4
3	Literature and Foreign Language		Area D4	4
4	Humanities Synthesis			
Area D	Social Sciences	20	See Unive	rsity
1	U.S. History, Constitution, American Ideals		Catalog fo	
2	History, Economics and Political Science		informatio	
3	Sociology, Anthropology, Ethnic & Gender Studies		how IGE m	neets
4	Social Science Synthesis		G.E. requir	e-
Area E	Lifelong Understanding & Self Development	4	ments.	
	Total Units	68		

Evaluator _ **GWT** Satisfied

_Yes

American Institutions	
Courses that satisfy this requirement may also satisfy G.E. Area D1	8

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

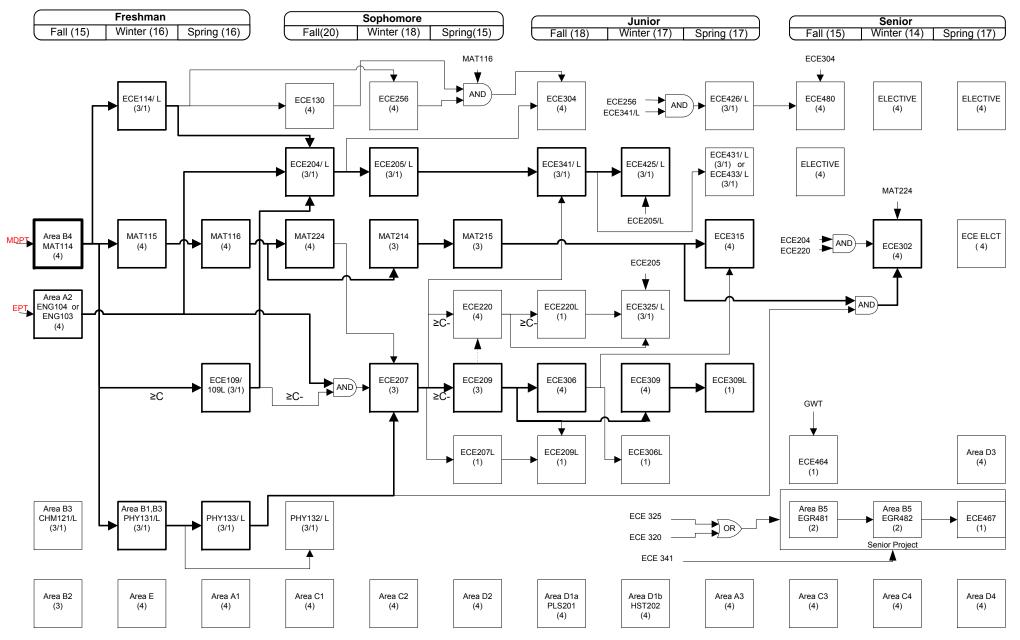
The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

Course		GE Area
General Physics	PHY 131/131L	B1, B3
and General Chemistry Lab	CHM 121L	В3
Analytic Geometry/Calculus I	MAT 114	B4
Project Design and Application	EGR 481/482	B5

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

Year 2011/2012

Computer Engineering Curriculum Flow Chart



At least 12 units of the Electives must be satisfied by selecting courses from the following list. The rest of the Elective units can be satisfied by selecting courses from the upper division ECE courses. If a course with an associated Lab is selected both must be taken.

ECE 342/L ECE 343/L ECE 404/L ECE 414/L ECE 415/L ECE 423 ECE 423L ECE 424/L ECE 408/L ECE 429 ECE 432/L ECE 439 ECE 499 (with advisor approval)