

## California State Polytechnic University, Pomona Degree Curriculum Sheet

Plan (Major)	COMPUTER	<b>ENGINEERING</b>
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Subplan/Option \_\_\_\_\_

Catalog Year 2010-2011
Minimum Units Required 198

Name\_\_\_\_ Student ID \_ Evaluator \_\_\_\_\_\_\_ Yes \_\_\_\_\_No

Required Core Courses		Units
Course		UNITS
Students in this major are expected to <b>maintain</b> a GPA of at least		
2.00 in all core courses.		
Introduction to Floatrical Engineering / ob	ECE 109/109L	3/1
Introduction to Electrical Engineering/Lab C for Engineers/Lab	ECE 109/109L ECE 114/114L	3/1
Discrete Structures	ECE 114/114L	3/1 4
Introduction to Combinational Logic/Lab	ECE 204/204L	3/1
Introduction to Sequential Logic/Lab	ECE 204/204L ECE 205/205L	3/1
Network Analysis I/Lab	ECE 203/203L ECE 207/207L	3/1
Network Analysis II/Lab	ECE 207/207L ECE 209/209L	3/1
Electronic Devices and Circuits/Lab	ECE 209/209L ECE 220/220L	4/1
Object-Oriented Programming	ECE 220/220L ECE 256	4/1
, ,	ECE 200	4
Elecromagnetic Fields	ECE 302	4
Data Structures for Engineers	ECE 304 ECE 306	4
Introduction to Disctrete Time Signals & System	ECE 306L	1
Comp Simulation of Dynamic Systems/Lab		4/1
Control Systems Engineering/Lab	ECE 309/309L ECE 315	4/1
Prob, Stats, & Random Processes for ECE	ECE 325/325L	3/1
Electronic Design for Digital Circuits/Lab		- '
Introduction to Microcontrollers/Lab	ECE 341/341L	3/1
Computer Organization/Lab	ECE 342/342L	4/1
or Microprocessor I/Lab	ECE 343/343L	(4/1)
Digital Design using Verilog HDL/Lab	ECE 415/415L	3/1
or Digital System Design Using VHDL/Lab	ECE 424/424L	(3/1)
Computer Architecture/Lab	ECE 425/425L	3/1
Operating Systems/Lab	ECE 426/426L	3/1
Applications Development using Java	ECE 429	4
Computer Networks/Lab	ECE 431/431L	4/1
or TCP/IP Internetworking/Lab	ECE 433/433L	(3/1)
Professional Topics for Engineers	ECE 464, 467	1,1
and Senior Design Team Project	FOF 400	
Software Engineering	ECE 480	4
	Total Units	98- 9

	Total Units	98- 99
Elective Core Courses		
Course		Units
ECE Upper Division Electives*		2-3
*Varies depending on choice of ECE 431 or 433 in Required Coure Courses.		
	Total Units	2-3

Required Support Courses		1
Course		Units
General Chemistry	CHM 121	3
General Chemistry Lab (B3)	CHM 121L	1
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	3
Linear Algebra & Differential Equations	MAT 224	4
General Physics/Lab (B1, B3)	PHY 131/131L	3/1
General Physics/Lab	PHY 132/132L	3/1
General Physics/Lab	PHY 133/133L	3/1
Project Design & Application (B5)	EGR 481, 482	4
	Total Units	42

General Education Requirements			IGF (G F	IGE (G.E.	
Area	<del>-</del>	Units	Alternativ		
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	
Area C	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	r	
2	History, Economics and Political Science		informatio	n on	
3	Sociology, Anthropology, Ethnic & Gender Studies		how IGE m	eets	
4	Social Science Synthesis		G.E. requir	e-	
Area E	Lifelong Understanding & Self Development	4	ments.		
	Total Units	68			

American Institutions	
Courses that satisfy this requirement may also satisfy G.E. Area	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/Lab	PHY 131/131L	B1, B3
and General Chemistry Lab	CHM 121L	B3
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 that area.

## Year 2010/2011

## Computer Engineering Curriculum Flow Chart

Name:

