



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

Plan (Major) **ELECTRICAL ENGINEERING**

Catalog Year **2015 - 2016**

Name _____

Subplan/Option _____

Minimum Units Required **194**

Student ID _____

Required Core Courses		
Course		Units
Required of all students. A 2.0 cumulative GPA is required in core courses in order to receive a degree in the major.		
Intro to Electrical Engineering & Lab C for Engineers & Lab	ECE 109/109L	3/1
Intro to Combinational Logic & Lab	ECE 114/114L	3/1
Intro to Sequential Logic & Lab	ECE 204/204L	3/1
Network Analysis I & Lab	ECE 205/205L	3/1
Network Analysis II & Lab	ECE 207/207L	3/1
Network Analysis III & Lab	ECE 209/209L	3/1
Electronic Devices and Circuits & Lab	ECE 220/220L	4/1
Object Oriented Programming	ECE 256	4
or Programming for Engineering Applications	ECE 257	(4)
Electromagnetic Fields	ECE 302	4
Discrete Time Signals and Systems & Lab	ECE 306/306L	4/1
Network Analysis III	ECE 307	3
Control Systems Engineering & Lab	ECE 309/309L	4/1
Intro to Power Engineering & Lab	ECE 310/310L	4/1
Prob, Stats, & Random Processes for ECE	ECE 315	4
Linear Active Circuit Design & Basic Active Circuit Lab	ECE 320/320L	3/1
Intro to Semiconductor Devices	ECE 330	3
Intro to Microcontrollers & Lab	ECE 341/341L	3/1
Communications Systems & Lab	ECE 405/405L	4/1
Professional Topics for Engineers	ECE 464	1
Team Project III	ECE 467	1
Total Units		77

Elective Core Courses	
Course	Units
ECE Upper Division Electives	20
12 of the 20 units must be 400 level courses. If a course has an associated lab, both must be taken.	
Total Units	20

Required Support Courses		
Course		Units
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.		
General Chemistry for Engineers	CHM 115	4
or General Chemistry & Lab (B3)	CHM 121/121L	(3/1)
Project Design Principles and Applications (B5)	EGR 481	2
and Project Design Principles and Applications (B5)	EGR 482	2
	MAT 114	4
Analytic Geometry and Calculus I (B4)	MAT 115	4
Analytic Geometry and Calculus II (B4)	MAT 116	4
Analytic Geometry and Calculus III (B4)	MAT 214	3
Calculus of Several Variables I	MAT 215	3
Calculus of Several Variables II	MAT 224	4
Elem Linear Algebra and Diff Equations	PHY 131/131L	3/1
General Physics & Lab (B1, B3)	PHY 132/132L	3/1
General Physics & Lab	PHY 133/133L	3/1
General Physics & Lab		
Total		42

General Education Requirements		IGE (G.E. Alternative)
Area	Units	
Area A Communication & Critical Thinking	12	
1. Oral Communication		IGE 120 4
2. Written Communication		IGE 121 4
3. Critical Thinking		IGE 122 4
Area B Mathematics & Natural Sciences	16	
Select at least one lab course from subarea 1 or 2.		IGE 220 4
1. Physical Science		IGE 221 4
2. Biological Science		IGE 222 4
3. Laboratory Activity		IGE 223 4
4. Math/Quantitative Reasoning		IGE 224 4
5. Science & Technology Synthesis		AREA A1 4
Area C Humanities	16	
1. Visual and Performing Arts		AREA A3 4
2. Philosophy and Civilization		AREA B 16
3. Literature and Foreign Language		AREA C1, C2 or C3 4
4. Humanities Synthesis		AREA C4 4
Area D Social Sciences	20	
1. U.S. History, Constitution, American Ideals		AREA D4 4
a. United States History		
b. Introduction to American Government		
2. History, Economics and Political Science		
3. Sociology, Anthropology, Ethnic & Gender Studies		
4. Social Science Synthesis		
Area E Lifelong Understanding & Self Development	4	
Total	68	

American Institutions	
Courses that satisfy this requirement may also satisfy GE Area D1	8

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

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.