



**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	ECE 109/109L	3/1
C for Engineers & Lab	ECE 114/114L	3/1
Intro to Combinational Logic & Lab	ECE 204/204L	3/1
Intro to Sequential Logic & Lab	ECE 205/205L	3/1
Network Analysis I & Lab	ECE 207/207L	3/1
Network Analysis II & 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	IGE 220	4
Select at least one lab course from subarea 1 or 2.		IGE 221	4
1. Physical Science		IGE 222	4
2. Biological Science		IGE 223	4
3. Laboratory Activity		IGE 224	4
4. Math/Quantitative Reasoning		AREA A1	4
5. Science & Technology Synthesis		AREA A3	4
Area C Humanities	16	AREA B	16
1. Visual and Performing Arts		AREA C1, C2	4
2. Philosophy and Civilization		or C3	4
3. Literature and Foreign Language		AREA C4	4
4. Humanities Synthesis		AREA D4	4
Area D Social Sciences	20	See University Catalog for information on how IGE meets GE requirements.	
1. U.S. History, Constitution, American Ideals			
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.

Electrical and Computer Engineering Department
Electrical Engineering Major Curriculum Year:
2015-2016

*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.*

	Fall		Winter		Spring		Comme
		Units		Units		Units	
Year 1	CHM 121/121L or CHM 115 Major Support	4	ECE 114/114L Major Core	4	ECE 109/109L Major Core		<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 481, and EGR 482 satisfy both major and general education requirements</i>
	MAT 114 GE Area B4	4	MAT 115 Major Support	4	MAT 116 Major Support	4	
	ENG 107 or ENG 109 or ENG 110 GE Area A2	4	PHY 131/131L GE Area B1, B3	4	PHY 133/133L Major Support	4	
	GE Area B2 Any approved course in area B2	3	GE Area E Any approved course in area E	4	GE Area A1 Any approved course in area A1	4	
	Total Units	15	Total	16	Total	16	
Total Units for Year						47	
Year 2	ECE 204/204L Major Core	4	ECE 256 or ECE 257 Major Core	4	ECE 220 Major Core	4	
	MAT 224 Major Support	4	ECE 205/205L Major Core	4	ECE 209 Major Core	3	
	PHY 132/132L Major Support	4	ECE 207 Major Core	3	ECE 207L Major Core	1	
	GE Area C1 Any approved course in C1	4	MAT 214 Major Support	3	MAT 215 Major Support	3	
			GE Area C2 Any approved course in C2	4	GE Area D2 Any approved course in area D2	4	
	Total Units	16	Total	18	Total Units	15	
	Total Units for Year						

Year 3	Fall	Units	Winter	Units	Spring	Units	Comment
	ECE 302 Major Core	4	ECE 341/341L Major Core	4	ECE 320L Major Core	1	
	ECE 220L Major Core	1	ECE 320 Major Core	3	ECE 315 Major Core	4	
	ECE 306 Major Core	4	ECE 307 Major Core	3	ECE 309 Major Core	4	
	ECE 310 Major Core	4	ECE 306L Major Core	1	GE Area C3 Any approved course in area C3	4	
	ECE 209L Major Core	1	ECE 310L Major Core	1	GE Area A3 Any approved course in A3	4	
	PLS 201 GE Area D1a	4	HST 202 GE Area D1b	4			
<i>Take the Graduation Writing Test</i>							
Total Units	18	Total Units	16	Total Units	17	Total Units for Year	51

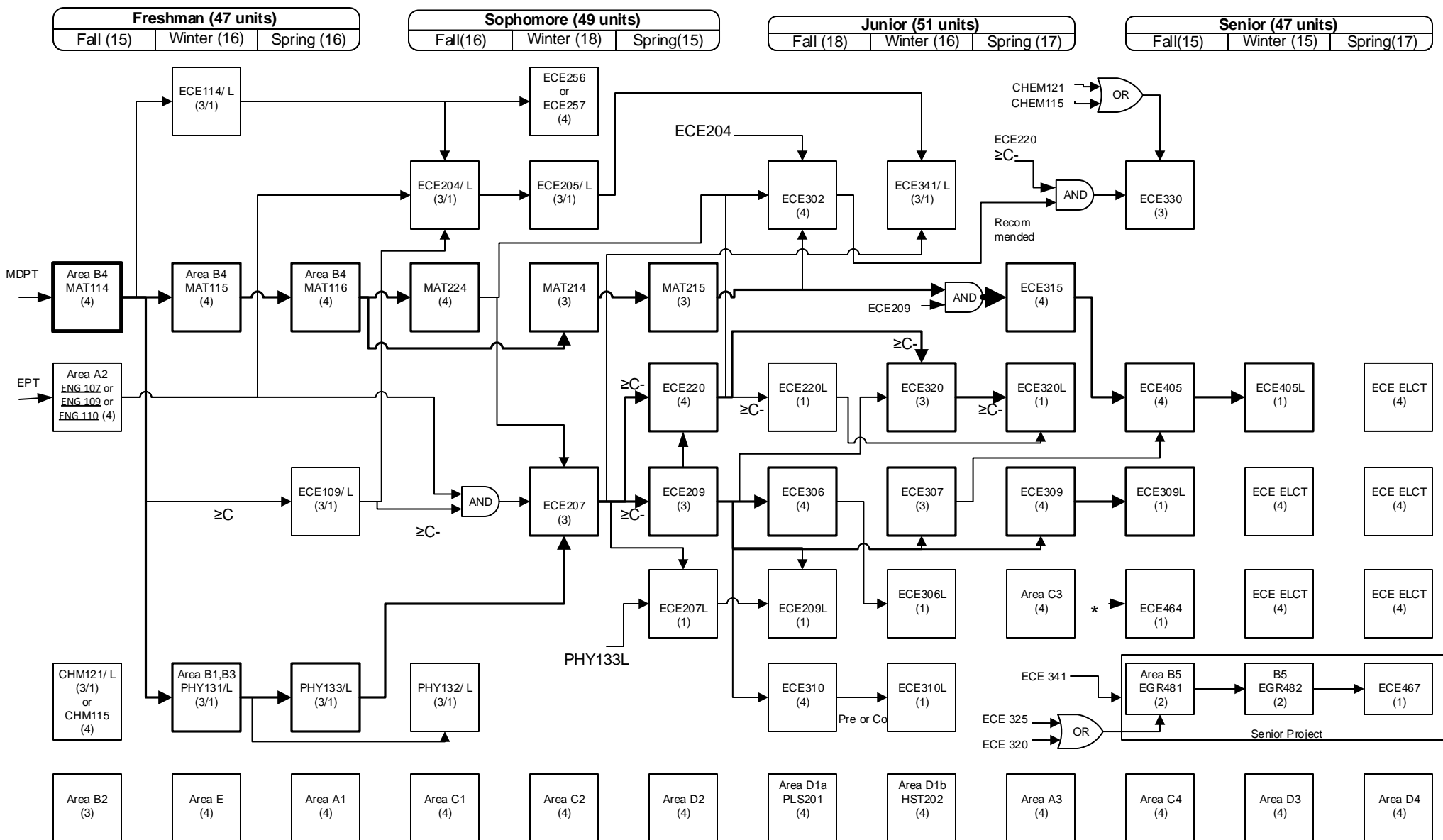
Year 4	Fall	Units	Winter	Units	Spring	Units	Comment
	ECE 330 Major Core	3	ECE UD Elective Major Core	4	ECE UD Elective Major Core	4	<i>Select from ECE upper Division Electives (12 of the 20 units must be 400 level. If a course has an associated lab, both must be taken).</i>
	ECE 405 Major Core	4	ECE 405L Major Core	1	ECE UD Elective Major Core	4	
	ECE 464 Major Core	1	ECE UD Elective Major Core	4	ECE UD Elective Major Core	4	
	ECE 309L Major Core	1	EGR 482 GE Area B5	2	ECE 467 Major Core	1	
	EGR 481 GE Area B5	2	GE Area D3 Any approved course in area D3	4	GE Area D4 Any approved course in area D4	4	
	GE Area C4 Any approved course in	4					
<i>Request a graduation check</i>				<i>File an application to graduate</i>			
Total Units	15	Total Units	15	Total Units	17	Total Units for Year	47

Total Units on Plan	194	
Major Core Units	97	
Major Support Units	29	
General Education Units	68	
Unrestricted Elective Units	0	

Electrical Engineering Curriculum Flow Chart

Year 2015/2016

Name: _____



BS Electrical Engineering degree requirements include 20 units of upper division electives, and:
 1- If a course has an associated lab (The lab is listed as corequisite to the Lecture), both must be taken.
 2- 12 of the 20 units must be 400 level courses

* Completion of all 100 and 200 level courses, Junior or Senior standing, and satisfactory completion of GWT