Dan (Major) ELECTRICAL ENGINEEDING RC	Catala		2017.2019	8		Neree	
ubalan/Ontion	Catalo	g rear _	Paguirad	U	10/	Name	
	IVIIIIIIII		nequired		134		
Required Core Courses	Required	l Support	Courses			General Education Requirements	
Required of all students. A 2.0 cumulative GPA is required in core courses in order to	The followin	g major suppo	ort courses should	d be used to sati	sfy the indicated GE re-	Area A Communication & Critical Thinking (12 units)	
receive a degree in the major.	quirements.	If these course	es are not used to	satisfy GE, the to	otal units to degree may	1. Oral Communication	
ECE 109 - Introduction to Electrical Engineering (3) and ECE 109L - Introduction to Electrical Engineering Laboratory (1)	CHM 121 -	CHM 121 - General Chemistry (3) and				2. Written Communication	
	CHM 121L	CHM 121L - General Chemistry Laboratory (1) (B3)				3. Critical Thinking	
ECE 114 - C for Engineers (3) and	or	or CHM 115 - General Chemistry for Engineers (4) EGB 481 - Project Design Principles and Applications (2) (B5) and				Area B Mathematics & Natural Sciences (16 units)	
ECE 114L - Programming Laboratory for Engineers (1)	CHM 115 -					1. Physical Science	
ECE 204 - Introduction to Digital Logic Design (4) and	EGR /81 - 1					2. Biological Science	
ECE 204L - Introduction to Digital Logic Design Laboratory (1)	EGR 481 - 1	EGR 482 - Project Design Principles and Applications (2) (B5)				3. Laboratory Activity	
						4 Math/Quantitative Beasoning	
ECE 205 - Digital Circuit Design Using Verilog (3) and ECE 205L - Digital Circuit Design Using Verilog Laboratory (1) ECE 207 - Network Analysis I (3) and	MAT 114 - A	MAT 114 - Analytic Geometry and Calculus I (4) (B4)				5 Science & Technology Synthesis	
	MAT 115 - A	MAT 115 - Analytic Geometry and Calculus II (4) (B4)				Area C Humanitice (16 unite)	
	MAT 116 - A	MAI 116 - Analytic Geometry and Calculus III (4) (B4)				Area C numanities (10 units)	
ECE 207L - Network Analysis I Laboratory (1)	MAT 215 - 0	MAT 215 - Calculus of Several Variables II (3)				1. Visual and Performing Arts	
	MAT 224 - E	MAT 224 - Elementary Linear Algebra and Differential Equations (4)				2. Philosophy and Civilization	
ECE 209 - Network Analysis II (3) and ECE 209L - Network Analysis II Laboratory (1)	DUNCTOL		(0) (D4)			3. Literature and Foreign Language	
	PHY 131 - 0	PHY 131 - General Physics (3) (B1) and PHY 1311 - General Physics Laboratory (1) (B3)				4. Humanities Synthesis	
ECE 220 - Electronic Devices and Circuits (4) and ECE 220L - Electronics Laboratory (1)		General Fliys	sics Laboratory (1	1) (D3)		Area D Social Sciences (20 units)	
	PHY 132 - 0	PHY 132 - General Physics (3) and				1. U.S. History, Constitution, American Ideals	
	PHY 132L -	PHY 132L - General Physics Laboratory (1)				a. United States History	
ECE 256 - Object Oriented Programming (4) or ECE 257 - Programming for Engineering Applications (4)						b. Introduction to American Government	
	PHY 133 - 0	PHY 133 - General Physics (3) and PHY 133L - General Physics Laboratory (1)				2. History, Economics and Political Science	
ECE 302 - Electromagnetic Fields (4)	PHY 133L -					3. Sociology, Anthropology, Ethnic & Gender Studies	
	Total Ur	its 42				4. Social Science Synthesis	
ECE 306 - Discrete Time Signals and Systems (4) and ECE 306L - Discrete Time Signals and Systems Laboratory (1)	F 1 - 4 ¹	<u> </u>				Area E Lifelong Understanding & Self Development (4 units)	
	Elective	Elective Core Courses				Tetel Unite CO	
ECE 307 - Network Analysis III (3)	ECE Opper	DIVISION EIECI	ives (19)				
ECE 309 - Control Systems Engineering (4) and	12 of the 19	units must be	e 400 level course	es. If a course h	as an associated lab,		
ECE 309L - Control Systems Laboratory (1)	both must b	both must be taken.				American Institutions	8
	Total Ur	Total Units 19				Courses that satisfy this requirement may also satisfy GE Area D1	
ECE 310 - Introduction to Power Engineering (4) and							
ECE 310L - Power Engineering Laboratory (1)	An alternate	pattern for pa	General Edu		D and E available	American Cultural Perspectives Requirement	
ECE 315 - Probability, Statistics, and Random Processes for Electrical and Computer	for students	for students is the Interdisciplinary General Education (IGE) program. Students				Refer to the University Catalog General Education Program section for	1
Engineering (4)	should see a	should see an advisor for specific GE coursework required by their major. Students				a list of courses that satisfy this requirement. Course may also satisfy	4
	must be exer	npt from or so	ore at least 147 of	on the EPT to q	ualify for IGE. Please	major, minor, GE, or unrestricted elective requirements.	
ECE 320 - Linear Active Circuit Design (3) and ECE 3201 - Basic Active Circuit Laboratory (1)	refer to the U	reter to the University Catalog General Education Program section for additional					
ECE 320E - Basic Active Circuit Laboratory (1)	iniornation.					All persons who receive undergraduate degrees from Cal Poly Pomona r	must pass th
ECE 330 - Introduction to Semiconductor Devices (3)	How IGE ful	How IGE fulfills General Education Requirements:				Graduation Writing Test (GWT). The test must be taken by the quarter followi	ng completio
						of 120 units for undergraduates.	
ECE 341 - Introduction to Microcontrollers (3) and	Year	Completion	of IGE Courses	s Satisfies GE	Requirements		
ECE 341L - Introduction to Microcontrollers Laboratory (1)	Freshman	IGE 120 IG	E 121, IGF 122	A2 as well as	s any 2 courses from		
ECE 405 - Communications Systems (4) and			,	C1-C3			
ECE 405L - Communications Systems Laboratory (1)							
	Sophomoro	ICE 220 IC	E 221 ICE 222	D1 (8 unite)	and D3		
	Soprioritore	IGL 220, IG	L 221, IGL 222	DT (0 units)	and D5		
ECE 464 - Professional Topics for Engineers (1)	Junior	IGE 223, IG	E 221, IGE 222	D2 and Area	F		