

Electronic Systems Engineering Technology, B.S.: 124 units
2020-2021 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 1	PHY 1210 Physics of Motion, Fluids, and Heat (B1) [FSp]	Prereq: C- or better in MAT 106, MAT 1060, MAT 112, MAT 114, MAT 1140, MAT 1140C, MAT 115, MAT 116 or MAT 1150 . Coreq: PHY 1210L.	3	ETE 1021 Circuit Analysis I [Sp]	Prereq: ECET or ESET major; MAT 1050 or MAT 105; and MAT 1060 or MAT 106. Coreq: ETE 1021L .	3	[] = Term Typically Offered F = Fall Sp = Spring Su = Summer e = even years o = odd years
	PHY 1210L Physics of Motion, Fluids, and Heat Laboratory (B3) [FSp]	Coreq: PHY 1210.	1	ETE 1021L Circuit Analysis I Laboratory [Sp]	Prereq: ECET or ESET major. Coreq: ETE 1021.	1	
	EGR 1000 Engineering, Society, and You (E)		2	ETE 1151 C/C++ Programming [FSp]	Prereq: ESET, ETT, or EMSET major; EGR 1000; EGR 1000L; and MAT 1060 or MAT 106. Coreq: ETE 1151L.	3	
	EGR 1000L Engineering, Society, and You Laboratory (E)		1	ETE 1151L C/C++ Programming Laboratory [FSp]	Prereq: ESET, ETT, or EMSET major; EGR 1000; EGR 1000L; and MAT 1060 or MAT 106. Coreq: ETE 1151.	1	
	MAT 1300 Technical Calculus I (B4) [FSp] (Success Marker)	Prereq: C or better in MAT 1050 and MAT 1060, MAT 1070, or appropriate score on MDTP or ALEKS placement test.	4	MAT 1310 Technical Calculus II [FSp] (Success Marker)	Prereq: MAT 116, MAT 1150, MAT 1300, or MAT 1300B.	4	
	GE Area A2: Written Communication [FSp] (Success Marker)		3	GE Area A1: Oral Communication [FSP]		3	
	Total Units		14	Total Units		15	

Year 2	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	ETE 2041 Electronic Devices and Circuits [F]	Prereq: ECET or ESET major; MAT 1300 or MAT 130; and C- or better in ETE 1021 or ETE 103, and ETE 1021L or ETE 103L. Coreq: ETE 2041L.	3	ETE 2101 Circuit Analysis II [FSp]	Prereq: ECET or ESET major; MAT 1310, MAT 132, or MAT 299; and C- or better in ETE 1021 or ETE 210, and ETE 1021L or ETE 210L. Coreq: ETE 2101L.	3	
ETE 2041L Electronic Devices and Circuits Laboratory [F]	Prereq: ECET or ESET major; MAT 1300 or MAT 130; and C- or better in ETE 1021 or ETE 103, and ETE 1021L or ETE 103L. Coreq: ETE 2041.	1	ETE 2101L Circuit Analysis II Laboratory [FSp]	Prereq: ECET or ESET major; MAT 1310, MAT 132, or MAT 299; and C- or better in ETE 1021 or ETE 210, and ETE 1021L or ETE 210L. Coreq: ETE 2101.	1		
ETE 2301 Digital Circuits [F]	Prereq: ECET or ESET major; and C- or better in ETE 1021 or ETE 103, and ETE 1021L or ETE 103L. Coreq: ETE 2301L.	3	ETE 2721 Electronic CAD, Manufacturing and PCB Fabrication [FSp]	Prereq: ESET major; C- or better in ETE 2041 or ETE 204; ETE 2041L or ETE 204L; ETE 2301 or ETE 230; and ETE 2301L or ETE 230L. Coreq: ETE 2721L.	1		
ETE 2301L Digital Circuits Laboratory [F]	Prereq: ECET or ESET major; and C- or better in ETE 1021 or ETE 103, and ETE 1021L or ETE 103L. Coreq: ETE 2301.	1	ETE 2721L Electronic CAD, Manufacturing and PCB Fabrication Laboratory [FSp]	Prereq: ESET major; C- or better in ETE 2041 or ETE 204, ETE 2041L or ETE 204L, ETE 2301 or ETE 230, and ETE 2301L or ETE 230L. Coreq: ETE 2721.	2		
PHY 1220 Physics of Electromagnetism, Circuits, and Light [FSp]	Prereq: C- or better in PHY 122, PHY 122B, PHY 1210, or PHY 1210B. Coreq: PHY 1220L.	3	ETM 2121 Applied Mechanics for Electronic Systems Engineering Technology [Sp]	Prereq: ECET or ESET major; PHY 1210 or PHY 121; and C- or better in MAT 1300 or MAT 130.	4		
PHY 1220L Electromagnetism, Circuits, and Light Laboratory [FSp]	Coreq: PHY 1220.	1	GE Area B2: Life Sciences [FSp]		2		
GE Area C1: Visual and Performing Arts [FSp]		3	GE Area D3: Social Sciences: Principles, Methodologies, Value Systems, and Ethics [FSp]		3		
Semester Total Units		15	Semester Total Units		16		

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 3	ETE 3441 Microcontroller Applications [SpSu]	Prereq: ECET or ESET major; and C- or better in ETE 2301 or ETE 230, ETE 2301L or ETE 230L, ETE 1151 or ETT 215, and ETE 1151L or ETT 215L. Coreq: ETE 3441L.	3	ETE 3351 Electronic Communication Circuits and Systems [FSp]	Prereq: ECET or ESET major; MAT 1310 , MAT 132, or MAT 299; and C- or better in ETE 2041 or ETE 204, and ETE 2041L or ETE 204L. Coreq: ETE 3351L.	3	<i>Graduation Writing Test must be taken before completion of 75 units.</i>
	ETE 3441L Microcontroller Applications Laboratory [SpSu]	Prereq: ECET or ESET major; and C- or better in ETE 2301 or ETE 230, ETE 2301L or ETE 230L, ETE 1151 or ETT 215, and ETE 1151L or ETT 215L. Coreq: ETE 3441.	1	ETE 3351L Electronic Communication Circuits and Systems Laboratory [FSp]	Prereq: ECET or ESET major; MAT 1310, MAT 132, or MAT 299; and C- or better in ETE 2041 or ETE 204, and ETE 2041L or ETE 204L. Coreq: ETE 3351.	1	
	ETE 3501 Feedback Control Systems [Sp]	Prereq: ECET or ESET major; MAT 1310, MAT 132, or MAT 299; and C- or better in ETE 2101 or ETE 310, ETE 2101L or ETE 310L, ETE 2801 or ETE 280, and ETE 2801L or ETE 280L. Coreq: ETE 3501L.	3	ETE 2801 Industrial Electronics and PLC's [Sp]	Prereq: ECET or ESET major; C- or better in ETE 2101 or ETE 210, ETE 2101L or ETE 210L, ETE 2041 or ETE 204, and ETE 2041L or ETE 204L. Coreq: ETE 2801L.	3	
	ETE 3501L Feedback Control Systems Laboratory [Sp]	Prereq: ECET or ESET major; MAT 1310, MAT 132, or MAT 299; and C- or better in ETE 2101 or ETE 310, ETE 2101L or ETE 310L, ETE 2801 or ETE 280, and ETE 2801L or ETE 280L. Coreq: ETE 3501.	1	ETE 2801L Industrial Electronics and PLC's Laboratory [Sp]	Prereq: ECET or ESET major; C- or better in ETE 2101 or ETE 210, ETE 2101L or ETE 210L, ETE 2041 or ETE 204, and ETE 2041L or ETE 204L. Coreq: ETE 2801.	1	
	GE Area C2: Literature, Modern Languages, Philosophy and Civilization [FSp]		3	Major Electives	Select from Curriculum Sheet	3	
	GE Area D2: U.S. Constitution and California Government [FSp]		3	GE Area C1 or GE Area C2 [FSp]	Select either C1: Visual and Performing Arts or C2: Literature, Modern Languages, Philosophy and Civilization course	3	
	GE Area D1: U.S. History American Ideals [FSp]		3			0	
			0			0	
<i>Take the Graduation Writing Test</i>							
Semester Total Units			17	Semester Total Units		14	

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	Courses	Requirements/Comments		Courses	Requirements/Comments		
	Year 4	ETE 4201 Electronic Test Instrumentation and Data Acquisition Systems [F]	Prereq: ECET or ESET major; and C- or better in ETE 2101 or ETE 210, ETE 2101L or ETE 210L, ETE 2041 or ETE 204, and ETE 2041L or ETE 204L. Coreq: ETE 4201L.	3	ETE 4351 Data Communication and Networking [Sp]	Prereq: ECET or ESET major, ETE 3351 or ETE 335, and ETE 3351L or ETE 335L. Coreq: ETE 4351L.	
ETE 4201L Electronic Test Instrumentation and Data Acquisition Systems Laboratory [F]		Prereq: ECET or ESET major; and C- or better in ETE 2101 or ETE 210, ETE 2101L or ETE 210L, ETE 2041 or ETE 204, and ETE 2041L or ETE 204L. Coreq: ETE 4201.	1	ETE 4351L Data Communication and Networking Laboratory [Sp]	Prereq: ECET or ESET major, ETE 3351 or ETE 335, and ETE 3351L or ETE 335L. Coreq: ETE 4351.	1	
EGR 4810 Project Design Principles and Applications (B5) [FSp]		Prereq: Lower division GE requirements in Areas A and B.	1	ETE 4751 Introduction to Robotics Control and Application [FSp]	Prereq: ECET or ESET major; ETE 3501, ETE 350, ETM 3301, or ETM 330; ETE 3501L, ETE 350L, ETM 3301L, or ETM 330L; and C- or better in ETM 2111, ETM 2121, or ETT 211. Coreq: ETE 4751L.	3	
Major Electives		Select from Curriculum Sheet	4	ETE 4751L Introduction to Robotics Control and Applications Laboratory [FSp]	Prereq: ECET or ESET major; ETE 3501, ETE 350, ETM 3301, or ETM 330; ETE 3501L, ETE 350L, ETM 3301L, or ETM 330L; and C- or better in ETM 2111, ETM 2121, or ETT 211. Coreq: ETE 4751.	1	
Major Electives		Select from Curriculum Sheet	4	EGR 4820 Project Design Principles and Applications (B5) [SpSu]	Prereq: Lower division GE requirements in Areas A and B.	1	
IME 4020 Ethical Concepts in Technology and Applied Science (B5, C3) [FSpSu]		Prereq: Lower division GE requirements in Area A, at least two sub-areas in Area B, and at least two sub-areas in Area C.	3	EGR 4830 Project Design Principles and Applications (B5) [SpSu]	Prereq: Lower division GE requirements in Areas A and B.	1	
			0	Major Elective	Select from Curriculum Sheet	4	
			0	GE Area D4: Social Science Synthesis [FSp]		3	
<i>File an application to graduate</i>							
Semester Total Units			16	Semester Total Units		17	
						Total Units	124



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Pomona