

**Major: Electronic Systems Engineering Technology, B.S.: 124 units**  
**2018-2019 Academic Year**

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
<b>Year 1</b>	ETE 1021 Circuit Analysis I	Prereq: ESET major; MAT 1050 or MAT 105; and MAT 1060 or MAT 106. Coreq: ETE 1021L	3	ETE 1151 C/C++ Programming	Prereq: ESET or EMSET major; EGR 1000; EGR 1000L; and MAT 1060 or MAT 106. Coreq: ETE 1151L.	3	
	ETE 1021L Circuit Analysis I Laboratory	Prereq: ESET major. Coreq: ETE 1021.	1	ETE 1151L C/C++ Programming Laboratory	Prereq: ESET or EMSET major; EGR 1000; EGR 1000L; and MAT 1060 or MAT 106. Coreq: ETE 1151	1	
	EGR 1000 Engineering, Society, and You (E)		2	ETE 2301 Digital Circuits	Prereq: ESET major; and C- or better in ETE 1021 or ETE 103, and ETE 1021L or ETE 103L. Coreq: ETE 2301L.	3	
	EGR 1000L Engineering, Society, and You Laboratory (E)		1	ETE 2301L Digital Circuits Laboratory	Prereq: ESET major; and C- or better in ETE 1021 or ETE 103, and ETE 1021L or ETE 103L. Coreq: ETE 2301.	1	
	MAT 1300 Technical Calculus I (B4)	Prereq: MAT 105 or MAT 1050 & MAT 106 or MAT 1060; MAT 1052 & MAT 106 or MAT 1060; MAT 105,M-T>=4,& M-A>=18;105,T>=6,&A>=14;1050,T>=4,& A>=18;1050,T>=6,& A>=14;1052,T>=4,&A>=18;1052,T>=6,& A>=14;106&A>=22;1060 & A>=22;A>=22&T>=4;A>=18&T>=6;105,A-Trig>=23,&A-C>=6	4	MAT 1310 Technical Calculus II	Prereq: MAT 116, MAT 1150 or MAT 1300.	4	
	GE Area A1: Oral Communication		3	GE Area D3: Social Sciences: Principles, Methodologies, Value Systems, and Ethics		3	
	<b>Total Units</b>	<b>14</b>		<b>Total Units</b>	<b>15</b>		

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Year 2	ETE 2041 Electronic Devices and Circuits	Prereq: 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	Prereq: 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	Prereq: 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	Prereq: 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 2721 Electronic CAD, Manufacturing and PCB Fabrication	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.	3	ETE 2801 Industrial Electronics and PLC's	Prereq: 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 2721L Electronic CAD, Manufacturing and PCB Fabrication Laboratory	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.	1	ETE 2801L Industrial Electronics and PLC's Laboratory	Prereq: 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	
	PHY 1210 Physics of Motion, Fluids, and Heat (B1)	Prereq: C- or better in MAT 106, MAT 1060, MAT 112, MAT 114, MAT 1140, MAT 1140C, MAT 115, MAT 116 or MAT 1150 . Corequisite(s): PHY 1210L.	3	PHY 1220 Physics of Electromagnetism, Circuits, and Light	PHY 1210. Prerequisite(s): C- or better in PHY 122, PHY 122B, PHY 1210, or PHY 1210B. Corequisite(s): PHY 1220L.	3	
	PHY1210L Physics of Motion, Fluids, and Heat Laboratory (B3)	Coreq: PHY 1210.	1	PHY1220L - Electromagnetism, Circuits, and Light Laboratory (1)	Corequisite(s): PHY 1220.	1	
	GE Area A2: Written Communication		3	GE Area B2: Life Sciences		2	
	GE Area D1: U.S. History and American Ideals		3				
	<b>Semester Total Units</b>			<b>18</b>	<b>Semester Total Units</b>		<b>14</b>

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	Courses	Requirements/Comments		Courses	Requirements/Comments		
<b>Year 3</b>	ETE 3351 Electronic Communication Circuits and Systems	Prereq: 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	ETE 3441 Microcontroller Applications	Prereq: 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	<i>Graduation Writing Test must be taken before completion of 75 units.</i>
	ETE 3351L Electronic Communication Circuits and Systems Laboratory	Prereq: 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 3441L Microcontroller Applications Laboratory	Prereq: 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 3501 Feedback Control Systems	Prereq: ESET major; MAT 1310, MAT 132, or MAT 299; and C- or better in ETE 2101 or ETE 310, and ETE 2101L or ETE 310L. Coreq: ETE 3501L.	3	ETM 2121 Applied Mechanics for Electronic Systems Engineering Technology	Prereq: ECET Majors; PHY 1510 or PHY 121; and C- or better in MAT 1300 or MAT 130.	4	
	ETE 3501L Feedback Control Systems Laboratory	Prereq: ESET major; MAT 1310, MAT 132, or MAT 299; and C- or better in ETE 2101 or ETE 310, and ETE 2101L or ETE 310L. Coreq: ETE 3501.	1	GE Area C2b: Literature and Language Other than English		3	
	GE Area C1: Visual and Performing Arts		3	Major Elective	Select from Curriculum Sheet	3	
	GE Area D2: U.S. Constitution and California Government		3	GE Area C2a: Philosophy and Civilization		3	
	<i>Take the Graduation Writing Test</i>						
	<b>Semester Total Units</b>		<b>14</b>	<b>Semester Total Units</b>		<b>17</b>	

	Fall		Units	Spring		Units	Comments
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<b>Year 4</b>	ETE 4201 Electronic Test Instrumentation and Data Acquisition Systems	Prereq: 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	Prereq: ESET major; ETE 3351 or ETE 335; and ETE 3351L or ETE 335L. Coreq: ETE 4351L.	3	
	ETE 4201L Electronic Test Instrumentation and Data Acquisition Systems Laboratory	Prereq: 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	Prereq: 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)		1	ETE 4751 Introduction to Robotics Control and Application	Prereq: ESET major; ETE 3501 or ETE 350; ETE 3501L or ETE 350L; and C- or better in ETM 2121 or ETT 211. Coreq: ETE 4751L.	3	
	Major Elective	Select from Curriculum Sheet	3	ETE 4751L Introduction to Robotics Control and Applications Laboratory	Prereq: ESET major; ETE 3501 or ETE 350; ETE 3501L or ETE 350L; and C- or better in ETM 2121 or ETT 211. Coreq: ETE 4751.	1	
	Major Elective	Select from Curriculum Sheet	4	EGR 4820 Project Design Principles and Applications (B5)		1	
	IME 4020 Ethical Concepts in Technology and Applied Science (B5, C3)		3	EGR 4830 Project Design Principles and Applications (B5)		1	
				Major Elective	Select from Curriculum Sheet	4	
				GE Area D4: Social Science Synthesis		3	
	<i>File an application to graduate</i>						
	<b>Semester Total Units</b>			<b>15</b>	<b>Semester Total Units</b>		<b>17</b>
<b>Total Units</b>						<b>124</b>	