

**ACADEMIC ROADMAP**  
**BS SP ETS**  
**Electrical Engineering Technology, Smart Grid**

**Freshman Year**

<b>FIRST SEMESTER</b>				<b>SECOND SEMESTER</b>			
<b>Course Title</b>	<b>Catalog Number</b>	<b>REQ</b>	<b>Sequence</b>	<b>Course Title</b>	<b>Catalog Number</b>	<b>REQ</b>	<b>Sequence</b>
Applied Calculus 1 or Calculus I + Using Tech. to Explore Calculus 1	MAT 126 or MAT 161	Yes		Applied Calculus II or Calculus II + Using Tech. to Explore Calculus II	MAT 127 or MAT 162	Yes	
General Education course		Yes		General Physics I or Univ. Physics I	PHY 107 or PHY 111	Yes	
Essentials of EET	ENT 104	Yes		General Education course		Yes	
General Education course		Yes		General Education course		Yes	
College Writing 1	CWP 101	Yes		College Writing II	CWP 102	Yes	

**Sophomore Year**

<b>THIRD SEMESTER</b>				<b>FOURTH SEMESTER</b>			
<b>Course Title</b>	<b>Catalog Number</b>	<b>REQ</b>	<b>Sequence</b>	<b>Course Title</b>	<b>Catalog Number</b>	<b>REQ</b>	<b>Sequence</b>
Gen. Physics II or Univ. Physics II	PHY 108 or PHY 112	Yes		Electric Circuits Analysis II	ENT 332	Yes	
Electric Circuits Analysis I	ENT 330	Yes		Linear Algebra or Differential Equations	MAT 202 or MAT 315	Yes	
General Education		Yes		Digital Systems	ENT 345	Yes	
Mathematics Applications in Engineering Technology	ENT 300	Yes		Electronics	ENT 341	Yes	
Computer-Based Information Processing	CIS 151	Yes		General Education course		Yes	

**Junior Year**

<b>FIFTH SEMESTER</b>				<b>SIXTH SEMESTER</b>			
<b>Course Title</b>	<b>Catalog Number</b>	<b>REQ</b>	<b>Sequence</b>	<b>Course Title</b>	<b>Catalog Number</b>	<b>REQ</b>	<b>Sequence</b>
Electric Machines	ENT 371	Yes		Adv. Circuit Analysis	ENT 342	Yes	
Microcontrollers	ENT 346	Yes		Renewable Distributed Generation and Storage	ENT 481	Yes	
Fund. of Chemistry	CHE 111+113	Yes		Building Information Modeling Using REVT MEP	ENT 340	Yes	
General Education course				Elective course			
Mechanics I	ENT 301	Yes		General Education course			

**Senior Year**

<b>SEVENTH SEMESTER</b>				<b>EIGHTH SEMESTER</b>			
<b>Course Title</b>	<b>Catalog Number</b>	<b>REQ</b>	<b>Sequence</b>	<b>Course Title</b>	<b>Catalog Number</b>	<b>REQ</b>	<b>Sequence</b>

Elective course				Control Systems II	ENT 462	Yes	
Control Systems I	ENT 461	Yes		Electrical Design II	ENT 466	Yes	
Electrical Design I	ENT 465	Yes		Power Systems II	ENT 472	Yes	
Power Systems I	ENT 471	Yes		Power Electronics	ENT 445	Yes	
Elective course				Elective course			

SOP Academic Roadmap 2024