

ACADEMIC ROADMAP
BS SP ETS
Electrical Engineering Technology – Smart Grid

Freshman Year

FIRST SEMESTER				SECOND SEMESTER			
Course Title	Catalog Number	REQ	Sequence	Course Title	Catalog Number	REQ	Sequence
Applied Calculus I or Calculus I + Using Tech. to Explore Calculus I	MAT 126 or MAT 161 + 163	Yes		Applied Calculus II or Calculus II + Using Tech. to Explore Calculus II	MAT 127 or MAT 162 +164	Yes	
Gen. Chemistry 1 or Fund. of Chemistry 1	CHE 101 or CHE 111	Yes		*Gen. Chemistry II or Fund. of Chemistry II + Laboratory for Fund. of Chem. II	CHE 102 or CHE 112 + CHE 114	Yes	
Essentials of EET	ENT 104	Yes		General Physics I or Univ. Physics I	PHY 107 or PHY 111	Yes	
General Education course				General Education course			
College Writing 1	CWP 101			College Writing II	CWP 102		

Sophomore Year

THIRD SEMESTER				FOURTH SEMESTER			
Course Title	Catalog Number	REQ	Sequence	Course Title	Catalog Number	REQ	Sequence
Gen. Physics II or Univ. Physics II	PHY 108 or PHY 112	Yes		Electric Circuits Analysis I	ENT 330	Yes	
Mechanics I	ENT 301	Yes		Intro. Probability & Statistics or Differential Equations	MAT 311 or MAT 315	Yes	
Analytical Methods for Technologists	ENT 300	Yes		General Education course			
Computer-Based Information Processing	CIS 151	Yes		General Education course			
General Education course				Elective course			

Junior Year

FIFTH SEMESTER				SIXTH SEMESTER			
Course Title	Catalog Number	REQ	Sequence	Course Title	Catalog Number	REQ	Sequence
Elec. Cir. Analysis II	ENT 332	Yes		Adv. Circuit Analysis	ENT 342	Yes	
Electronics	ENT 341	Yes		Microcontrollers	ENT 346	Yes	
Digital Systems	ENT 345	Yes		Electric Machines	ENT 371	Yes	
General Education course				Technical Drawing	TEC 101	Yes	
Elective course				Elective course			

Senior Year

SEVENTH SEMESTER				EIGHTH SEMESTER			
Course Title	Catalog Number	REQ	Sequence	Course Title	Catalog Number	REQ	Sequence
Power Electronics	ENT 445	Yes		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		Renewable Distributed Generation and Storage	ENT481	Yes	
Elective course				Elective course			

*Instead of CHE 102 or CHE 112, a science course with a lab by faculty approval can be substituted.