

ACADEMIC ROADMAP
Electrical Engineering Technology- Smart Grid -BS (2018)

Freshman Year

FIRST SEMESTER		
Course Title	Catalog Number	
Applied Calculus I or Calculus I and Using Technology to Explore Calculus I	MAT 126 or MAT 161 and MAT 163	
General Physics I or University Physics I	PHY 107 or PHY 111	
Essentials of Electrical Engineering Technology	ENT 104	
General Education course		
College Writing I	CWP 101	

SECOND SEMESTER		
Course Title	Catalog Number	
Applied Calculus II or Calculus II and Using Technology to Explore Calculus II	MAT 127 or MAT 162 and MAT 164	
General Chemistry I or Fundamentals of Chemistry I	CHE 101 or CHE 111	
General Physics II or University Physics II	PHY 108 or PHY 112	
General Education course		
College Writing II	CWP 102	

Notes:

Sophomore Year

THIRD SEMESTER		
Course Title	Catalog Number	
Electric Circuits Analysis I	ENT 330	
Mechanics I	ENT 301	
Analytical Methods for Technologists	ENT 300	
Computer-Based Information Processing	CIS 151	
General Education course		

FOURTH SEMESTER		
Course Title	Catalog Number	
Introductory Probability & Statistics or Differential Equations	MAT 311 or MAT 315	
Electrical Circuits Analysis II	ENT 332	
Electronics	ENT 341	
Digital Systems	ENT 345	
Elective course		

Notes:

Junior Year

FIFTH SEMESTER		
Course Title	Catalog Number	
Microcontrollers	ENT 346	
Electric Machines	ENT 371	
General Chemistry II or Fundamentals of Chemistry II and Laboratory for Fundamentals of Chemistry II	CHE 102 or CHE 112 and CHE 114	
General Education course		
Elective course		

SIXTH SEMESTER		
Course Title	Catalog Number	
Advanced Circuit Analysis	ENT 342	
Renewable Distributed Generation and Storage	ENT 481	
Technical Drawing	TEC 101	
Elective course		
General Education course		

Notes:

Senior Year

SEVENTH SEMESTER		
Course Title	Catalog Number	
Power Electronics	ENT 445	
Control Systems	ENT 461	
Electrical Design I	ENT 465	
Power Systems I	ENT 471	
Elective course		

EIGHTH SEMESTER		
Course Title	Catalog Number	
Control Systems II	ENT 462	
Electrical Design II	ENT 466	
Power Systems II	ENT 472	
General Education course		
Elective course		

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