

ACADEMIC ROADMAP
Mechanical Engineering Technology -BS (2017)

Freshman Year

FIRST SEMESTER		
Course Title	Catalog Number	
Applied Calculus I or Calculus I	MAT 126 or MAT 161	
General Chemistry I or Fundamentals of Chemistry I	CHE 101 or CHE 111	
General Physics I	PHY 107	
Technical Drawing	ENT 101 or TEC 101	
College Writing I	CWP 101	

SECOND SEMESTER		
Course Title	Catalog Number	
Applied Calculus II or Calculus II	MAT 127 or MAT 162	
General Chemistry II or Fundamentals of Chemistry II and Laboratory for Fundamentals of Chemistry II	CHE 102 or CHE 112 and CHE 114	
Technical Drawing	TEC 201	
General Physics II or University Physics II	PHY 108 or PHY 111	
College Writing II	CWP 102	

Notes:

Sophomore Year

THIRD SEMESTER		
Course Title	Catalog Number	
Analytical Methods for Technologists	ENT 300	
Computer Methods for Technologists	ENT 213	
Mechanics I	ENT 301	
Introduction to Oral Communication	SPC 205	
University Physics II or IF course or Elective course	PHY 112 or Elective	

FOURTH SEMESTER		
Course Title	Catalog Number	
Introductory Probability & Statistics or math course by advisement	MAT 311 or Math course by advisement	
Computer -Based Information Processing I	CIS 151	
Solid Modeling	ENT 314	
Materials Science and Testing	TEC 311	
IF course or elective		
If course or elective		

Notes:

Junior Year

FIFTH SEMESTER		
Course Title	Catalog Number	
Mechanics II	ENT 302	
Thermodynamics	ENT 311	
Electrical Circuits and Devices I	ENT 331	
IF Course or Elective		
IF Course or Elective		

SIXTH SEMESTER		
Course Title	Catalog Number	
Kinematics	ENT 303	
Fluid Mechanics	ENT 312	
Industrial Electronics or Electric Machines	ENT 335 or ENT 371	
Stress Analysis	ENT 401	
Foreign Language or Elective (if needed)		

Notes:

Senior Year

SEVENTH SEMESTER		
Course Title	Catalog Number	
Heat Transfer	ENT 411	
Professional Experience in Mechanical Engineering Technology	ENT 420	
Machine Design I	ENT 421	
Foreign Language or Elective (if needed)		

EIGHTH SEMESTER		
Course Title	Catalog Number	
Shock & Vibration Analysis	ENT 402	
Machine Design II	ENT 422W	
IF Course or Elective		
IF Course or Elective		

Notes: