

ACADEMIC ROADMAP
BS MET
Mechanical Engineering Technology Curriculum starting Fall 2024

Freshman Year

FIRST SEMESTER				SECOND SEMESTER			
Course Title	Catalog Number	REQ	Sequence	Course Title	Catalog Number	REQ	Sequence
Applied Calculus I or Calculus I	MAT 126 or MAT 161 + 163	Yes		Applied Calculus II or Calculus II	MAT 127 or MAT 162 + 164	Yes	
Technical Drawing	ENT 101 or TEC 101	Yes		Fund. Of Chemistry 1	CHE 111 +113	Yes	
College Writing 1	CWP 101	Yes		Gen. Physics I or Univ. Physics I	PHY 107 or PHY 111	Yes	
General Education General Education				College Writing II General Education	CWP 102	Yes	

Sophomore Year

THIRD SEMESTER				FOURTH SEMESTER			
Course Title	Catalog Number	REQ	Sequence	Course Title	Catalog Number	REQ	Sequence
Analytical Methods for Technologists	ENT 300	Yes		Intro. Probability & Statistics or math course by advisement	MAT 311 or Math course By advisement	Yes	
Computer Methods for Engineering Technology	ENT 213	Yes		Computer-based Infor. Proc. I	CIS 151	Yes	
Mechanics I	ENT 301	Yes		Applied Solid Modeling	ENT 314	Yes	
Materials Processing	TEC 201	Yes		Mat. Science & Testing	TEC 311	Yes	
Gen. Physics II or Univ. Physics II	PHY 108 or PHY 112	Yes		Intro. Oral Communication	SPC 205	Yes	

Junior Year

FIFTH SEMESTER				SIXTH SEMESTER			
Course Title	Catalog Number	REQ	Sequence	Course Title	Catalog Number	REQ	Sequence
Mechanics II	ENT 302	Yes		Kinematics	ENT 303	Yes	
Thermodynamics	ENT 311	Yes		Fluid Mechanics	ENT 312	Yes	
Elect. Cir. & Devices I	ENT 331	Yes		Industrial Electronics or Electric Machines	ENT 335 or 371	Yes	
General Education or elective				Stress Analysis	ENT 401	Yes	
General Education or elective				General Education or elective			

Senior Year

SEVENTH SEMESTER				EIGHTH SEMESTER			
Course Title	Catalog Number	REQ	Sequence	Course Title	Catalog Number	REQ	Sequence
Heat Transfer	ENT 411	Yes		Shock & Vibration Ana.	ENT402	Yes	
Prof. Exp. in MET	ENT 420	Yes		Machine Design II	ENT422	Yes	
Machine Design I	ENT 421	Yes		General Education or elective			
General Education or elective				General Education or elective			