

**ACADEMIC ROADMAP**  
**BS MET**  
**Mechanical Engineering Technology Curriculum starting Fall 2023**

**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	
General Physics I	PHY 107 (or PHY 111)	Yes		Gen. Chemistry 1 or Fund. Of Chemistry 1	CHE 101 (or CHE 111 +113)	Yes	
Technical Drawing	ENT 101 or TEC 101	Yes		Gen. Physics II or Univ. Physics II	PHY 108 (or PHY 112)	Yes	
College Writing 1	CWP 101	Yes		College Writing II	CWP 102	Yes	
General Education				General Education			

**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 Technologists	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. Chemistry 2 or Fund. Of Chemistry 2	CHE 102 (or CHE 112 + 114)	Yes		Intro. Oral Communication	SPC 205	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>
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**

<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>
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			