

**ACADEMIC ROADMAP
BS SP MET**

Mechanical Engineering Technology Curriculum 2017

Freshman Year

FIRST SEMESTER				SECOND SEMESTER			
Course Title	Catalog Number	REQ	Sequence	Course Title	Catalog Number	REQ	Sequence
Applied Calculus 1 or Calculus I	MAT 126 or MAT 161/163	Yes		Applied Calculus II or 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 Chemistry II	CHE 102 or CHE 112 + CHE 114	Yes	
General Physics I	PHY 107	Yes		Technical Drawing	TEC 201	Yes	
Technical Drawing	ENT 101 or TEC 101	Yes		Gen. Physics II or Univ. Physics II	PHY 108 or 111 CWP 102	Yes	
College Writing 1	CWP 101			College Writing II			

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	MAT 311 or Math course By advisement	Yes	
Computer Methods for Technologists	ENT 213	Yes		by advisement Computer-based Infor. Proc. I	CIS 151 ENT 314 TEC 311	Yes	
Mechanics I	ENT 301 SPC 205	Yes		Solid Modeling		Yes	
Intro. Oral Communication		Yes		Mat. Science & Testing		Yes	
Univ. Physics II	PHY 112 or	Yes		If course or elective		Yes	
IF course or elective	IF or elective			If course or elective			

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	
IF Course or Elective				Stress Analysis	ENT 401	Yes	
IF Course or Elective				Foreign Language or Elective (if needed)			

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	ENT422W	Yes	
Machine Design I	ENT 421	Yes		IF Course or Elective			
Foreign Language or Elective (if needed)				IF Course or Elective			