

**ACADEMIC ROADMAP TEMPLATE:  
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 II	MAT 126 or MAT 161	Yes		Applied Calculus II or Calculus II	MAT 127 or MAT 162	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	Yes	
College Writing 1	CWP 101			College Writing II	CWP 102		

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