

ACADEMIC ROADMAP TEMPLATE:**BS SP MET****Mechanical Engineering Technology****Freshman Year****FIRST SEMESTER**

Course Title	Catalog Number	REQ	Sequence
Mathematics Requirement		MAT126 or 161	
Chemistry requirement		CHE 101 or CHE 111	
Introduction to Equation Solving Software (1 credit hr.)		ENT 102	
IF Course			
College Writing I 'H' OR 'A' OR 'S' ELECTIVE		CWP 101	Take elective courses to meet any Buffalo State's requirements in writing, global, diversity, or general education, as well as upper division requirements.

Sophomore Year**THIRD SEMESTER**

Course Title	Catalog Number	REQ	Sequence
Mathematics Requirement		MAT 311	
Major Elective: Intro to Oral Communication		SPC 205	
Materials Processing		TEC 201 or ENT 201	
Major Elective: Computer-based Information Processing I		CIS 151	
Physics Requirement Intro. to Engineering Economics and Project Management (1 credit hr.)		PHY 107 or PHY 111 ENT 202	

SECOND SEMESTER

Course Title	Catalog Number	REQ	Sequence
Mathematic Requirement		MAT 127 or MAT 162	
Chemistry Requirement		CHE 102 or CHE 112	
Technical Drawing		TEC 101 or ENT 101	
'H' OR 'A' OR 'S' ELECTIVE			Take elective courses to meet any Buffalo State's requirements in writing, global, diversity, or general education, as well as upper division requirements.
College Writing II		CWP 102	

FOURTH SEMESTER

Course Title	Catalog Number	REQ	Sequence
Analytical Methods for Technologists (ENT 300) OR Differential Equations (MAT 315)		ENT 300 OR MAT 315	
Materials Science and Testing		TEC 311	
Physics Requirement 'H' OR 'A' OR 'S' Elective		PHY 108 or PHY 112	Take elective courses to meet any Buffalo State's requirements in writing, global, diversity, or general education, as well as upper division requirements.
Civilizations Elective Technology Elective			

Junior Year**FIFTH SEMESTER**

Course Title	Catalog Number	REQ	Sequence
Mechanics I		ENT 301	
Thermodynamics		ENT 311	
Electrical Circuits and Devices I		ENT 331	
'H' OR 'A' OR 'S' Elective		Take elective courses to meet any Buffalo State's requirements in writing, global, diversity, or general education, as well as upper division requirements.	
'H' OR 'A' OR 'S' Elective		Take elective courses to meet any Buffalo State's requirements in writing, global, diversity, or general education, as well as upper division requirements.	

SIXTH SEMESTER

Course Title	Catalog Number	REQ	Sequence
Mechanics II		ENT 302	
Fluid Mechanics		ENT 312	
Industrial Electronics		ENT 335	
Civilization Elective			
'H' OR 'A' OR 'S' Elective		Take elective courses to meet any Buffalo State's requirements in writing, global, diversity, or general education, as well as upper division requirements.	
Foreign Language or "L" Elective (if needed)			

Senior Year**SEVENTH SEMESTER**

Course Title	Catalog Number	REQ	Sequence
Solid Modeling		ENT 314	
Stress Analysis		ENT 401	
Heat Transfer		ENT 411	
Professional Experience in Mechanical Engineering Technology (1 credit)		ENT 420	
Machine Design I		ENT 421	
"L" elective			
Foreign Language or "L" Elective (needed)			

EIGHTH SEMESTER

Course Title	Catalog Number	REQ	Sequence
Kinematics		ENT 303	
Shock and Vibration Analysis		ENT 402	
Machine Design II		ENT 422W	
Civilization Elective			
"L" elective			