

Program Educational Objective 1: Solve technical problems Apply the latest technology and engineering tools to solve technical problems in the practice of mechanical engineering technology and related interdisciplinary fields.											Program Educational Objective 2: Remain technically current with continuous learning Remain technically current and adapt to rapidly changing technologies through self improvement with continuous learning or post-graduate education.		Program Educational Objective 3: Demonstrate independent thinking, self-management, and functioning effectively in team-oriented activities Demonstrate independent thinking, self-management, and functioning effectively in team-oriented and open-ended activities in an industrial environment.	Program Educational Objective 4: Communicate effectively in oral, written, and graphical forms.	Program Educational Objective 5: Perform ethically and professionally in business, industry, and society.	Program Educational Objective 6: Develop leadership skills and responsibility in their chosen career field.	Program Educational Objective 7: Understand global issues and the impact of technology and engineering solutions Understand global issues and the impact of technology and engineering solutions on the society and environment.		
SLO a: Appropriate mastery of techs, skills, and tools	SLO b: Apply current knowledge, adapt to emerging applications	SLO c: Conduct, analyze and interpret experiments	SLO d: Apply creativity in the design of systems	SLO f: Identify, analyze and solve technical problems	PO 1: Develop, simulate, and analyze mechanical systems	PO 2: Select engineering materials	PO 3: Identify and inspect tolerances	PO 4: Manage design work/processes.	PO 5: Implement design and produce parts.	PO 6: Estimate cost and manage engineering projects.	PO 7: Analyze/plan system's control and integration.	PO 8: Provide an integrated educational experience	SLO h: Engage in lifelong learning.	SLO k: Quality, timeliness, and continuous improvement	SLO e: An ability to function effectively on teams	SLO g: Communicate through engineering drawings, reports	SLO i: understand professional, ethical, social responsibility	SLO e: An ability to function effectively on teams.	SLO j: A respect for diversity
Management																			
MET 405 Economic Analysis for Engineering and Technology	R			R						P					P		I	P	
MET 406 Strength of Materials	P	R	P	P	P		P								P				P
MET 408 Elements of Machine Design	R			R	R														
MET 409 Senior Project in Industrial Technology	P			P	R				P	R		P		R	P	R			R
MET 413 Applications and Gaging of Geometric Dimensioning and Tolerancing	P						R								P	P			P
MET 430 Senior Seminar	P												P			P	P		
MATH 115 College Algebra		I																	
MATH 123 Analytic Geometry and Trigonometry		I																	
MATH 301 Fundamentals and Applications of Calculus		I																	
CHEM 100 Chemistry: Reactions and Reason		I																	
PHYS 105 General Physics I		I																	
MFG 370 Fundamentals of Manufacturing Processes	P		P						P										

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MFG 371/225 Manufacturing Processes and Materials	P		P			P			P											
COMM 101 Introduction to Speech Communication																I				
ENG 305T Technical Writing	I															P				
FS (ESR)																	P			I
ECT 281 Robotic Controls	I																			

Legend: I Introduced P Practiced R Reinforced

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