Support of MET Program Outcomes by Technical Courses in the Major

Program Outcomes	Required Courses																		
	ENT 213 Computer Methods for Technologists	ENT300 Analytical Methods or MAT 315	ENT301 Mechanics 1	ENT302 Mechanics 2	ENT 314 Solid Modeling	ENT331 Electrical Circuits and Devices I	ENT 311 Thermodynamics	ENT 312 Fluid Mechanics	ENT 411 Heat Transfer	ENT 303 Kinematics	ENT371 Electric Machines	ENT 401 Stress Analysis	ENT 402 Shock and Vibrations	ENT 420 Professional Experience in Mechanical Engineering	ENT 421 Machine Design I	ENT 422 Senior Design Machine Design II	TEC 101 Technical Drawing	TEC 201 Material Processing	TEC 311 Material Science and Testing
1) An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline	X	X	X I	X I	X I	X	X R	X M	X M	X R	X	X M	X M	X M	X M	X M	X	X	X
2) An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;					X I									X R		X M			
3) An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature	X		X I	X I	X I		X R	X R	X R	X I		X M	X M	X M	X M	X M			
4) An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes										X I	X			X R	X M	X M			
5) An ability to function effectively as a member or leader on a technical team		X	X I	X I		X	X R	X M	X M	X R	X	X M	X M	X M	X M	X M	X	X	X

Note: I – Introduction, R – Reinforcement, M – Mastery. Color-filled cells indicate that these courses are used for assessment.