

Course to Program Mapping Template

Program name MECHANICAL ENGINEERING TECH Division ASET Date _____

Catalog year _____ Completed by MARTIN DUBOIS

Program-Level Student Learning Outcomes	Course # MDTC 160	Course # MECH 102	Course # ELEC 125	Course # MECH 103	Course # MECH 131	Course # MATL 101	Course # METC 170	Course # MECH 201
Identify and define problems in mathematical and scientific terms	C	C	Ap	C	C	C	C	C
Produce graphic representations of designs using CAD software, Solid Modeling software, and pencil and paper methods.	Ap	C	Ap	C	Ap		Ap	C
Select materials and determine component sizes and shapes to meet design criteria.	Ap	Ap	C	Ap	C	C	Ap	Ap
Apply instruments to make measurements and analyze data from such measurements.	C	Ap	Ap	Ap	Ap	Ap	C	Ap
Identify typical mechanical components and explain their function.	C	Ap	C	Ap	Ap	C	C	Ap
Apply fundamental manufacturing processes using manual and automated machine tools.	Ap	Ap	Ap	Ap	Ap			Ap
Recognize assumptions and limits of analysis to the application of technology, including social and ethical implications.			C			C		

Use the following codes, based on Bloom's taxonomy, under each course number as appropriate: K=Knowledge level; C= Comprehension level; Ap= Application level; An=Analysis or above

*All core courses within the program should be included in the Program map.

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Program-Level Student Learning Outcomes	Course # MDTC 160	Course # MECH 102	Course # ELEC 125	Course # MECH 103	Course # MECH 131	Course # MATL 101	Course # METC 170	Course # MECH 201
Select and apply power generation and power transmission components including mechanical, pneumatic, hydraulic, thermal, and electrical types.			C		Ap		C	C
Recognize the need to engage in lifelong learning, and to perform research or conduct investigations to continuously upgrade knowledge and skills.	Ap	Ap	Ap	Ap	Ap	Ap	Ap	Ap
Communicate effectively, and work as part of a team.	Ap	Ap	Ap	Ap	Ap			Ap

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Program-Level Student Learning Outcomes	Course # ELEC 141	Course # QSTC 115	Course # MDTC 226	Course # METC 220	Course # MECH 111	Course # MECH 210	Course # MECH 234	Course # PHY 152 OR CHEM 151
Identify and define problems in mathematical and scientific terms	C			Ap	C	Ap	Ap	C
Produce graphic representations of designs using CAD software, Solid Modeling software, and pencil and paper methods.	Ap		Ap	C		Ap		
Select materials and determine component sizes and shapes to meet design criteria.	C	C	C	Ap	Ap	Ap	C	C
Apply instruments to make measurements and analyze data from such measurements.	Ap	Ap	C	C	Ap	C	C	C
Identify typical mechanical components and explain their function.		C	C	Ap	Ap	Ap	C	
Apply fundamental manufacturing processes using manual and automated machine tools.	Ap	Ap	Ap		Ap			
Recognize assumptions and limits of analysis to the application of technology, including social and ethical implications.		Ap		Ap		Ap	Ap	

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Program-Level Student Learning Outcomes	Course # ELEC 141	Course # QSTC 115	Course # MDTC 226	Course # METC 220	Course # MECH 111	Course # MECH 210	Course # MECH 234	Course # PHY 152 OR CHEM 151
Select and apply power generation and power transmission components including mechanical, pneumatic, hydraulic, thermal, and electrical types.	Ap			Ap		Ap	Ap	
Recognize the need to engage in lifelong learning, and to perform research or conduct investigations to continuously upgrade knowledge and skills.	Ap	Ap	Ap	Ap	Ap	Ap	Ap	Ap
Communicate effectively, and work as part of a team.	Ap			Ap	Ap		Ap	

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