Course to Program Mapping Template

Program name Industrial Electricity and Electronics **Division** ASET **Date** 12/12/2013

Catalog year 2012-2013 **Completed by** Thomas Harrill

Program-Level Student Learning Outcomes	Course # ELEC 125	Course # ELEC 127	Course # ELEC 130	Course # ELEC 132	Course # ELEC 133	Course # ELEC 135	Course # ELEC 136	Course # ELEC 137	Course # ELEC 141	Course # ELEC 144	Course # ELEC 211	Course # ELEC 214	Course # MECH 131
Acquire and apply technical expertise in the areas of Circuit analysis, Analog electronics, Digital electronics, Microprocessors, and Communication systems.	K,C,Ap,An		K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An			K
Utilize Virtual Instrumentation, Data Acquisition (LabView), CAI, Schematic Capture and Test and Applications software packages to refine skills and to analyze and design various electronic circuits.					K,C,Ap,An					K,C,Ap,An			
Develop and Demonstrate Problem Solving Skills.	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An		Ap
Develop a willingness to learn independently.	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	Ap
Develop and demonstrate effective wiring and laboratory skills.	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An		Ap
Demonstrate Equipment/Instrumentation Competence	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An		Ap
Develop and demonstrate Technical Documentation/Lab Report writing skills and the ability to comprehend Technical Documentation including Schematic Diagrams	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	Ap

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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Demonstrate effective Oral Presentation Skills												K,C,Ap,An	
Value Safety Training, Safe Work Practices and acknowledge Safety Standards	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	C
Develop and Demonstrate the synergistic relationship and integration of various technical and academic fields into the study of Electronics (i.e. Mechatronics)									K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	Ap
Design, Construct, and Troubleshoot AC and DC Motor Control Circuits and an demonstrate an understanding of process control.		K,C,Ap,An	K,C,Ap,An						K,C,Ap,An	K,C,Ap,An			C
Demonstrate a thorough understanding of DC and AC theory and operating concepts.	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	K,C,Ap,An	

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