

Course to Program Mapping Template

Program name Nuclear Engineering Technology Division ASET Date 3/27/2015

Catalog year 2015-2016 Completed by M. Dubois

Program-Level Student Learning Outcomes	Course # METC 100	Course # NUET 100	Course # MDTC 160 OR CIS130	Course # ELEC 125	Course # NUET 120	Course # NUET 130	Course # MATL 121	Course # NUET 205
Describe and apply the culture of safety, continuous improvement, and peer checking.		Ap		C	Ap	Ap		Ap
Explain the requirement for documentation, formal procedures, and recordkeeping for nuclear related activities.	C	Ap			Ap	Ap		Ap
Describe the main systems in a nuclear power plant, and how they are used in power generation.		C			Ap	Ap		
Identify typical power plant components and explain their function.		C			Ap	Ap		Ap
Describe different sources of radiation, their effects on organic matter, methods of detection, and shielding.		C			Ap	Ap	C	
Identify and define problems in mathematic and scientific terms	Ap	C	C	Ap	C	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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Recognize assumptions and limits of analysis to the application of technology, including social and ethical implications.	Ap	C	C	Ap	C	C	C	
Recognize the need to engage in lifelong learning, and to perform research or conduct investigations to continuously upgrade knowledge and skills.	C	C	C	C	C	C	C	C
Communicate effectively, and work as part of a team.	Ap	C		Ap	Ap	Ap	C	Ap

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Program-Level Student Learning Outcomes	Course # CHEM 151	Course # MATH 160	Course # ELEC 133	Course # METC 234	Course # NUET 230	Course # ELEC 141	Course # NUET 240	Course # NUET 220
Describe and apply the culture of safety, continuous improvement, and peer checking.					Ap		Ap	Ap
Explain the requirement for documentation, formal procedures, and recordkeeping for nuclear related activities.				C	Ap	C	Ap	Ap
Describe the main systems in a nuclear power plant, and how they are used in power generation.				C	Ap	C	C	Ap
Identify typical power plant components and explain their function.			C	C	Ap	C	C	Ap
Describe different sources of radiation, their effects on organic matter, methods of detection, and shielding.	C						C	
Identify and define problems in mathematic and scientific terms	Ap	Ap	Ap	Ap	C	Ap	C	C

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Recognize assumptions and limits of analysis to the application of technology, including social and ethical implications.	C	Ap	Ap	C	C	C	C	C
Recognize the need to engage in lifelong learning, and to perform research or conduct investigations to continuously upgrade knowledge and skills.	C	C	C	C	C	C	C	C
Communicate effectively, and work as part of a team.	C	Ap	Ap	Ap		Ap		

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Program-Level Student Learning Outcomes	Course # ELEC 211							
Describe and apply the culture of safety, continuous improvement, and peer checking.								
Explain the requirement for documentation, formal procedures, and recordkeeping for nuclear related activities.	C							
Describe the main systems in a nuclear power plant, and how they are used in power generation.	Ap							
Identify typical power plant components and explain their function.	C							
Describe different sources of radiation, their effects on organic matter, methods of detection, and shielding.								
Identify and define problems in mathematic and scientific terms	Ap							

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Recognize assumptions and limits of analysis to the application of technology, including social and ethical implications.	C							
Recognize the need to engage in lifelong learning, and to perform research or conduct investigations to continuously upgrade knowledge and skills.	C							
Communicate effectively, and work as part of a team.	Ap							

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