Engineering Technology Cluster

2016

Skills-to-Course Matrix

Cluster Knowledge and Skills (CTE standards)

CCTC	Code Number	KS Statement	Engineering 1 TSA? - No	Engineering 2 TSA? - Yes	Drafting 1 TSA? Yes	Drafting 2 TSA? Yes	Course 5 TSA?	Course 6 TSA?
	EN01	Use effective communication skills with a variety of audiences.	X	X	TBD	TBD		
	EN02	Exhibit integrity and professionalism in engineering cluster occupations.	X	X	TBD	TBD		
	EN03	Use technology such as computers and design software to solve engineering problems.	X	X	TBD	TBD		
	EN04	Understand and use applied mathematics and science for engineering cluster careers.	X	X	TBD	TBD		
	EN05	Develop and implement a career plan within the engineering cluster occupations.			TBD	TBD		
	EN06	Use teamwork, critical thinking and problem solving skills to address complex problems in engineering.	X	X	TBD	TBD		
	EN07	Understand the role of engineering in society throughout history and how it is affected by economics, regulations, politics, and corporate culture.		X	TBD	TBD		
	EN08	Apply design principles and life-cycle methodology to create products, systems, and processes using appropriate technology.	X	X	TBD	TBD		
	EN09	Understand the impact personal characteristics, such as creativity, resourcefulness, the ability to visualize and the ability to think abstractly have on engineers and their ability to design.	X	X	TBD	TBD		
	EN10	Understand and adhere to safety, health, and environmental standards and regulations.	X	X	TBD	TBD		