

State Approved Courses Science, Technology, Engineering & Mathematics Programs School Year 2014-15

Engineering & Technology		Science & Math			
Foundational CTE Courses	Career Exploration (80023) Computer Applications (10004 [^]) Employability Skills (22152 [^]) Foundations of CTE (22150 [^]) Service Learning (22104)				
<i>*.5 credits of Foundational CTE courses can be counted toward students' 2-credit concentrator status</i>					
Cluster Courses	Entrepreneurship (12053 [^]) MS Engineering (21000) MS Technology Education (21050) MS Mechatronics/Robotics (21016) Introduction to Technology Education (21051) Mechanical Drafting & Design (21106)				
Pathway Courses	Project Lead the Way Engineering Courses	State-Developed Engineering & Technology Courses	Non-CTE Academic Science Courses	Non-CTE Academic Math Courses	
	<i>*.5 credits of relevant academic coursework can be counted toward students' 2-credit concentrator status</i>				
	Aviation	Aerospace Engineering (21013)	Aviation (20053)	Aerospace (03209) Meteorology (03006)	Calculus (02121) Physics (03151 [^]) Trigonometry (02103)
	Engineering	Introduction to Engineering Design (21006) Principles of Engineering (21004) Digital Electronics (21008) Civil Engineering & Architecture (21012) Computer Integrated Manufacturing (21010) Biotechnical Engineering (21014)	Introduction to Engineering (21001) Engineering Design & Development (21007) Computer Assisted Drafting (21107) Intro to Architecture and Construction (17006) Electronics (17106) Introduction to Manufacturing (13002) Architectural Drafting (21103) Mechanical Drafting & Design (21106) Introduction to Drafting & Design (21102)	Physical Science (03159 [^]) Biology (03051 [^]) Biology - Advanced Studies (03052) Chemistry (03101 [^]) Physical Geography (03007) Anatomy and Physiology (03053)	Geometry (02072 [^]) Trigonometry (02103) Calculus (02121) Physics (03151 [^])
	Energy		Alternate Energy Systems (21057) Introduction to Energy/Power (20101)	Physical Geography (03007)	Geometry (02072 [^]) Trigonometry (02103)
	Robotics		Mechatronics/Robotics (21009)	Physical Science (03159 [^])	Calculus (02121) Physics (03151 [^])
	Dual Credit Courses	MTI EN 101 - Energy Essentials (99999 [^]) MTI EN 102 - Electrical Essentials (99999 [^]) MTI CIS 105 Complete Computer Concepts (9999 [^]) MTI ENG 201 - Technical Writing (99999 [^])			
	Capstone Courses	PLTW - Engineering Design and Development (21007) Entrepreneurship Experience (80026) Senior Experience (80019 [^]) Service Learning (22104) Youth Internships (80018 [^])			
<i>*Up to 1 credit of capstone coursework can be counted toward students' 2-credit concentrator status</i>					