

STEM - (Science Technology Engineering & Math)

The STEM Career Academy is a four-component learning experience which develops a comprehensive understanding of careers in Science, Technology, Engineering and Mathematics. A STEM Endorsement on the High School Diploma will be awarded to students who complete the academy’s requirements.

STEM ACADEMY COURSE SEQUENCE

	Applied Technology	Computer Science	Engineering
9th Grade (Suggested)	<ul style="list-style-type: none"> Intro to Manuf & Metal Intro to Manuf & Wood 	<ul style="list-style-type: none"> Computer Science 1 (Sem 1) Computer Science 2 (Sem 2) 	<ul style="list-style-type: none"> Introduction to Engineering & Design
10th Grade	<ul style="list-style-type: none"> Construction & Building Technology Advanced Manufacturing & Metals 	<ul style="list-style-type: none"> Computer Science 1 (Sem 1) Computer Science 2 (Sem 2) 	<ul style="list-style-type: none"> Principles of Engineering
11th Grade	<ul style="list-style-type: none"> Manufacturing Youth Apprenticeship WCTC Dual Enrollment 	<ul style="list-style-type: none"> AP Computer Science Java AP Computer Science Principles IT Student Help Desk Advanced Programming 	<ul style="list-style-type: none"> Civil Engineering & Architecture Digital Electronics Environmental Sustainability
12th Grade	STEM Academy Capstone Students may also take further elective courses which align with their career pathway. Additional Math & Science courses should be taken Junior & Senior year.		

Co-Curricular Connection:

STEM Academy students can be active in Robotics Club, IT Student Help Desk, Math Club, Summer Enrichment, or Tech Club. Work experience such as Youth Apprenticeship and SOE contribute to real world application.

Community Engagement:

At least 8 hours of job shadowing in a related STEM field is required.

At least 40 hours of volunteer or work experience in a related STEM field is required. Participation in groups/clubs related to STEM contributes to this total.

Capstone Course:

The STEM Capstone course will reflect core content knowledge as well as leadership, writing skills, project management and organization. Students will share final projects with the community in a STEM showcase event.