



STEM Academy

Engineering Technology Pathway

This pathway develops students' ability to reason, think creatively, make decisions, and solve problems.

GRADUATION REQUIREMENTS

Language Arts 4.0 credits
 Mathematics 3.0 credits
 Science 3.0 credits
 Social Studies 3.0 credits
 Physical Ed 1.5 credits
 Electives 7.5 credits

*4 yr college ready:

- 1 additional credit of math
- Minimum 2 credits of the same world language

Pathways courses (count as electives)

Introduction to Technology
 Computer Aided Drafting and Design
 Pre-Engineering/Architectural Computer
 Aided Drafting and Design
 Introduction to Engineering
 3-D Solid Modeling
 Principles of Engineering

CERTIFICATE OPPORTUNITIES

Successful completion of pathway and Concurrent Enrollment courses may lead to certification. Examples of certificates are:

- Basic and Advanced CAD
- Residential/Commercial Architectural CAD
- GIS CAD

POST-SECONDARY OCCUPATIONS

Career Options	Salary Estimate	Minimum Degree Required
Engineering Technician	\$57,000	Associate
Surveying Technician	\$39,000	High School Diploma
Architect	\$73,000	Bachelor

Extended Learning and Leadership Opportunities

TSA (Technology Student Association) student organization.
 Career Explore Internships.

Early College Credit Opportunities (Concurrent Enrollment)

Below is a sampling of courses that may be taken prior to graduation:

AEC107 Print Reading Res/
 Commercial
 CAD100 Print Reading for CAD
 CAD101 Computer Aided
 Drafting

CAD236 MAP/AutoDesk
 GIS101 Introduction to GIS
 GIS131 GPS for Global Info
 Systems