

ENGINEERING ACADEMY

Engineering cluster focuses of careers in planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support. The pathways identified in this cluster are **robotics/pre-engineering and automotive**. These careers require educational preparation ranging from high school education with on-the-job training to advanced degrees obtained at the university level.

Robotics/Pre-Engineering

1. Purpose

Students study the basics of applied physics, simple machines, advanced programming concepts, and the history and future of robotics. Students use the principles and theories of science, engineering, and mathematics to solve technical problems in research and development, manufacturing, sales, construction, inspection, and maintenance.

Automotive Service Technology

1. Purpose

This program prepares students for employment and/or specialized training in the automotive industry.

Course Sequence

Grade	Robotics/Pre-Engineering	Automotive Technology
9th	Introduction to Career and Technology 9100110 Computer and Business Skills 8200330	Introduction to Career and Technology 91000110 Computer and Business Skills 8200330
10th	Engineering Assisting 1* 8743010	Intro to Auto Tech* 8709410
11th	Engineering Assisting 2* 8743020	Auto Tech 2* 8709420
12th	Engineering Assisting 3* 8743030 AND Senior Project* 8743040	Auto Tech 3* 8709430 AND Senior Project* 8709440

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