

COURSES

SMALL ENGINE REPAIR & AUTOMOTIVE TECHNOLOGY (1.0)

An exciting look into the world of internal combustion engines, how they shape our world, and the skills necessary to repair and service them. We will explore all of the systems of a small engine and apply that information during the rebuilding of a small four cycle engine. Students will become familiar with tools, techniques, and terms necessary to understand how an engine works.



AG MECHANICS

The Ag Mechanics is a deep dive exploration of the major topics related to the mechanical and technical side of agricultural and technological subjects. This class will be broken into four major sections including agricultural equipment, agricultural structures, agricultural problem solving, and employability skills. The objective of this course is to be able to spend uninterrupted time learning how to repair, create and solve problems on your own. We will be re-enforcing many of the skills taught in previous agriculture classes while being able to focus more on achieving high end results and accomplishing larger projects. Projects will include working on equipment and constructing a structure such as a small building or shed and all of its mechanical systems. Working with local agri-businesses to explore and find solutions to problems that they may have. Most of our time will be spent getting our hands dirty while also working to be able to communicate our findings in a way that will help you get a job in the mechanical or technical industry in the future.

CAREER OPPORTUNITIES

Agricultural Equipment Technician
Irrigation Specialist
Farm/Ranch Technician
Precision Agriculture Technician
Machinist
Conservation Technician
Forestry
Engine & Equipment Diagnostic
Hydraulic Systems Technician
Ag Tech Specialist
Remote Systems Operator
Biofuel Technician
Business Owner
Farm Manager
Farm Owner

Some CTE programs also prepare students for further education, allowing them to pursue degrees in Agricultural Engineering, Ag Mechanics Instruction at universities or community colleges.



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CAREER & FINANCIAL MANAGEMENT (.5)

Focusing on the areas of Career Management and Financial Management and will cover the following topics: Career development, options beyond high school, job search process, workplace regulations, career readiness skills, lifelong learning, leadership and ethics, business communications and technological innovations, budgeting, money management, credit and loans, interest, investing, consumer options and protections, insurances, taxes.



AGRICULTURE, FOOD, & NATURAL RESOURCES (AFNR)

How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? While students discover the answers to these questions, they're learning about the history of manufacturing, robotics and automation, manufacturing processes, compute modeling, manufacturing equipment, and flexible manufacturing systems.