

# Career & Technical Course Offerings through the College Express Program

## Auto Mechanics

The Auto Mechanics course is offered during the morning and afternoon College Express times. Do you love cars and enjoy figuring out how they work? An automobile mechanic's job is to maintain and repair vehicles. The exact type of work a mechanic does, however, depends on his or her training. Some specialize in a specific brand of vehicle (for example, Ford), while others service all makes and models.

Due to the complexity of today's motor vehicles, many mechanics specialize in particular areas of repair: for example, engine and fuel systems, air conditioning, brakes, or electrical and electronic systems. Automobile mechanics working in small shops tend to perform a wider variety of tasks than those in large shop, where specialization is more common.

Students enrolled in Auto Mechanics can earn college credit during high school and will take the following classes if they complete both years of the program:

***AUTO 111 Intro. To Engine Technology*** (Fall 20) 3 Hours

The application, theory, and design of automotive engine operation. Emphasis given to development of the skills needed for testing, disassembly, precision measuring, machining, and re-assembly of spark ignition cylinder heads.

***AUTO 121 Engine Overhaul*** (Fall 20) 3 Hours

Application of maintenance and service procedures to diagnose and repair a "short block" with emphasis given to skills needed to overhaul and rebuild stock automotive engine. Discussion about blueprinting and performance enhancements will be minimal. Disassembly techniques, measuring, machining, and proper re-assembly practices will be stressed.

***AUTO 128 Fuel Systems & Emission Controls*** (Spring 21) 5 Hours

Emphasis on electronic fuel injection and emission components with discussion on mechanical fuel injections, alternative fuels, and the environment. This class will also touch briefly on the carburetion system. Injection system maintenance, testing, servicing, and repair will

***AUTO 134 Steering and Suspension Systems*** (Fall 19) 3 Hours

Principles of operation, maintenance, and repair of automotive systems including electronic steering and suspension, steering columns, steering gears, and air bag safety. Emphasis given to front-wheel-drive and four-wheel drive systems.

***AUTO 135 Braking Systems*** (Spring 20) 4 Hours

To inspect and service hydraulic disc/drum braking systems including two and four wheel ABS and traction control systems. Use of lathes and other special tools will be utilized.

Education for Employment 400

# VVEDS

Vermilion Vocational Education Delivery System



Danville Area  
Community College