

# AUTOMOTIVE TECHNOLOGY I, CERTIFICATE OF COMPETENCY (AUT)

AUT 114	Steering and Suspension	4
AUT 115	Fuel I and II	2
<b>Total Hours</b>		<b>20</b>

## Career

Effective: Fall 2002

This certificate is designed to prepare the student for entry level positions in the occupational specialty of automotive technician. The Certificate of Competency in Automotive Technology I will be awarded upon successful completion of the minimum competencies as out-lined below. Program completers will be prepared to seek positions as entry-level automotive service technicians and automotive mechanics.

## Program Outcomes

Upon successful completion of this program, students should be able to:

- Identify tool and equipment nomenclature.
- Adhere to tool safety regulations.
- Explain the Occupational Safety and Health Act (OSHA) and the "right to know."
- Utilize electronic and service manuals.
- Define the overview of the automobile and its major components.
- Install electronic pollution controls.
- Test, service and repair electronic pollution controls requirements.
- Repair electronic braking systems.
- Explain testing, service and repair requirements for electronic braking systems.
- Identify electronic controlled trip computers.
- Install warning, security and sound systems.
- Prepare engines for removal. Disassemble, inspect and clean engine parts.
- Inspect and measure crankshaft.
- Install bearing, pistons, piston rings and crankshaft
- Perform reconditioning of valve seats and valve stem seals.
- Remove the camshaft. Install timing components, gears chain and belts.
- Inspect and service oil pumps.

## Curriculum

The College will award a certificate of competency to students who complete an approved credit-bearing career program that requires less than 30 credits. General education courses may not be required for programs that have less than 30 credits. The student must have a cumulative GPA of 2.0 or higher. At least six (6) credits, or 50% of the total credits required, whichever is greater, must be completed at Delaware County Community College.

Code	Title	Hours
<b>Required Courses</b>		
AUT 100	Introduction to Automotive Service Operation and Shop Practices	2
AUT 101	Automotive Electricity and Electronics	4
AUT 102	Automotive Engines	4
AUT 103	Brake Systems	4