

AUTOMOTIVE TECHNOLOGY ASSOCIATE IN SCIENCE DEGREE

Division: Technology and Engineering

PROGRAM CODE: 2S03838

The **Automotive Technology Associate in Science Degree** is designed to provide the student with the knowledge and skills needed for employment in the following automotive industry areas: Engine Repair, Automatic Transmissions/Transaxles Repair, Manual Drive Trains and Axles Repair, Suspension and Steering Repair, Brakes Repair, Electrical and Electronics Repair, Heating and Air Conditioning Repair, Engine Performance Repair, Service Consulting, Service Management, and Parts Control. This degree requires a total of 46.5-52.5 units.

Code	Title	Units
Required Courses (36.5 units):		
AUTO 081 F	Engine Rebuilding and Repair	8
AUTO 082 F	Engine Performance and Drivability	8
AUTO 083 F	Brake and Suspension Systems Repair	8
AUTO 084 F	Automatic Transmissions	8
AUTO 131 F	Automotive Fundamentals	4.5
Restricted Electives (10-16 units):		10-16
AUTO 050 F	Automotive Specialty Practice	2
AUTO 051 F	Internship in Automotive	2-4
AUTO 055 F	Automotive Business Management	5
AUTO 060 F	Automotive Powertrains	5
AUTO 065 F	Automotive Electrical and Electronic Systems	5
AUTO 070 F	Engine Reconditioning	7
AUTO 072 F	Automotive Engine Performance	7
AUTO 073 F	Brake Systems Repair	7
AUTO 086 F	Automatic Transmission Fundamentals	3
AUTO 088 F	Fuel Systems and Advanced Drivability Diagnosis	4
AUTO 089 F	Automotive Air Conditioning	4
AUTO 090 F	Emission Control Systems and Advanced Diagnosis	6
AUTO 091 F	Cylinder Head Repair	4
AUTO 096 F	Performance Technology	4
WELD 100 F	Introduction to Welding (formerly WELD 121AF)	3
Total Units		46.5-52.5

Outcome 1: Demonstrate safe work habits when using tools and equipment to repair automotive systems and comply with all local, state, federal, and international regulations regarding hazardous waste handling, disposal, and record keeping.

Outcome 2: Demonstrate the proper safety procedures and techniques required in an automotive repair facility.

Outcome 3: Evaluate vehicle malfunctions, demonstrate diagnostic procedures, interpret diagnostic test results, recommend repairs or

corrective action, and proficiently perform vehicle repairs following vehicle manufacturers' specifications.

Outcome 4: Compose a written vehicle repair estimate including parts and labor, collaborate with other staff members to inform the customer, and summarize the repairs performed on a vehicle repair order using the industry standard concern, cause, and correction format.

Outcome 5: Plan and participate in automotive technology update training and certification testing on a regular basis to stay current with emerging automotive repair skills and industry needs.

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