

AUTOMOTIVE TECHNOLOGY

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Degrees

A.S. Automotive Technology

Certificate of Achievement

Automotive Chassis Specialist

Automotive Technician

Automotive Tune-Up and Electronics Specialist

AUTOMOTIVE TECHNOLOGY ASSOCIATE OF SCIENCE

A degree in Automotive Technology prepares students with the skills and knowledge necessary to perform diagnosis and repair in the automotive shop environment. This program includes coursework that is essential for entry-level positions and enhances the skills and knowledge base of those who are seeking career progression within the automotive industry or transfer to a university. Completing this degree prepares students to pass ASE certification tests and satisfies the California Bureau of Automotive Repair training requirements for certification as a licensed smog Inspector.

Required Courses - Major:

		Units
AUT 140	Automotive Engines	4
AUT 142	Brakes/Suspension/Alignment	6
AUT 144	Manual Transmissions/Power Trains	3
AUT 145	Automotive Transmissions/Power Trains	4
AUT 146	Automotive Air Conditioning/Heating Systems	2
AUT 162	Automotive Electrical Systems	5
AUT 166	Automotive Diagnosis and Tune-Up	6
AUT 170	Advanced Engine and Emission Controls	6

Total Major Units

36

Total Degree Units

60

Program Level Student Learning Outcomes:

1. Locate service information from available sources, determine specifications, locate procedures, determine parts and labor charges and accurately complete a repair order.
2. Describe the theory and operation of automotive systems and circuits. Explain technical procedures and legal processes.
3. Demonstrate competency in service and repair by being able to test, adjust, diagnose, repair, calibrate, and validate repairs on a variety of automotive systems.
4. Demonstrate knowledge of safe working habits in an automotive repair facility.

AUTOMOTIVE CHASSIS SPECIALIST CERTIFICATE OF ACHIEVEMENT

This certificate program prepares students with the skills and knowledge necessary to perform diagnosis and repair in the automotive shop environment. This program includes coursework that is essential for entry-level positions and enhances the skills and knowledge base of those who are seeking career progression within the automotive industry. Completing this certificate program prepares students to pass ASE certification tests in the area of brakes, suspension, electrical systems, manual transmissions, and automatic transmissions.

Required Courses:

		Units
AUT 142	Brakes/Suspension/Alignment	6
AUT 144	Manual Transmissions/Power Trains	3
AUT 145	Automotive Transmissions/Power Trains	4
AUT 162	Automotive Electrical Systems	5

Plus 3 additional units selected from the following:		Units
BUS 50	Mathematical Applications in Business	3
BUS 132	Entrepreneurial Management	3
BUS 150	Entrepreneurial Marketing	3
Total units required for Certificate		21

Program Level Student Learning Outcomes:

1. Locate service information from available sources, determine specifications, locate procedures, determine parts and labor charges and accurately complete a repair order.
2. Describe the theory and operation of automotive systems and circuits. Explain technical procedures and legal processes.
3. Demonstrate competency in service and repair by being able to test, adjust, diagnose, repair, calibrate, and validate repairs on a variety of automotive systems.
4. Demonstrate knowledge of safe working habits in an automotive repair facility.