AUTOMOTIVE CERTIFIED TECHNICIAN, TRANSPORTATION TECHNOLOGIES, AAS

Program Code: Automotive Certified Tech-AAS

Program Description

Associate of Applied Science, Transportation Technologies, Automotive Certified Technician program is accredited by the ASE Education Foundation, the TMCC automotive program prepares graduates for highly skilled apprentice positions as service, repair and maintenance technicians. The automotive certified technician emphasis meets the Automotive Service Excellence (ASE) standards necessary for a career in repair shops in new car dealerships or independent businesses. The program emphasizes skills in diagnosis, troubleshooting, repair and maintenance of passenger vehicles and light-duty trucks.

Automotive Career Map (https://sites.tmcc.edu/flipbook/career-maps/)

Recommended Course Schedule

1st semester		Units
AUTO 101	Introduction to General Mechanics	4
AUTO 111	Automotive Electricity	4
AUTO 112	Automotive Electricity II	4
OSH 222	General Industry Safety	1
ENG 107	Technical Communications I	3
	Semester Total	**16**
2nd semester		
AUTO 136	Engine Repair	5
AUTO 145	Automotive Brakes	5
AUTO 150	Steering and Suspension Systems	5
Science [2]		3
	Semester Total	**18**
3rd semester		
AUTO 225	Engine Performance I	4
AUTO 227	Engine Performance II	4
AUTO 265	Electrical/Electronic Systems III	4
Constitution [2]		3
	Semester Total	**15**
4th semester		
Select from electives [3]		7-9
Diversity [2]		3
Communications [3]		3
	Semester Total	**13-15**
	Total Units	**62-64**

[2] See approved General Education list for the AAS Degree. (https://catalog.tmcc.edu/degrees-certificates/general-education/aas/)

[3] See program recommendations or requirements.

Program Requirements

AAS degrees are generally non-transfer degrees designed for students to enter the workforce.

To earn an AAS degree, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 units within the college.
3. Satisfy General Education requirements for the AAS (https://catalog.tmcc.edu/degrees-certificates/general-education/aas/).
4. Have no financial or library obligation to the college.

Code	Title	Units
General Education Requirements		
Diversity [1]		*[3]*
Communications/English		*6*
Communications - Recommended:		
BUS 107	Business Speech Communications	
English - Recommended:		
ENG 107	Technical Communications I	
Fine Arts/Humanities/Social Science		*3*
Human Relations [1]		*[3]*
Requirement is satisfied through embedded curriculum in the following courses:		
AUTO 136	Engine Repair	
AUTO 145	Automotive Brakes	
AUTO 150	Steering and Suspension Systems	
AUTO 225	Engine Performance I	
AUTO 227	Engine Performance II	
Mathematics [1]		*[3]*
Requirement is satisfied through embedded curriculum in the following courses:		
AUTO 111	Automotive Electricity	
AUTO 136	Engine Repair	
AUTO 145	Automotive Brakes	
AUTO 150	Steering and Suspension Systems	
AUTO 225	Engine Performance I	
AUTO 227	Engine Performance II	
Science		*3*
Recommended:		
PHYS 100	Introductory Physics	
U.S./Nevada Constitutions		*3*
Core Requirements		
AUTO 111	Automotive Electricity	4
OSH 222	General Industry Safety	1
Emphasis Requirements		
AUTO 101	Introduction to General Mechanics	4
AUTO 112	Automotive Electricity II	4
AUTO 136	Engine Repair	5
AUTO 145	Automotive Brakes	5

AUTO 150	Steering and Suspension Systems	5
AUTO 225	Engine Performance I	4
AUTO 227	Engine Performance II	4
AUTO 265	Electrical/Electronic Systems III	4
Elective Requirements		**7-9**
AUTO 165	Auto Heating and Air Conditioning	
AUTO 235	Engine Performance III	
AUTO 205	Manual Drive Trains and Axles	
AUTO 216	Automatic Transmissions	
AUTO 185	Introduction to Alternative Fueled Vehicles	
AUTO 285	Hybrid Vehicle Service Techniques	
AUTO 290	Internship in Automotive Level I	
Total Units		**62-64**

[1] Course may also count toward degree requirements. Please consult with Academic Advisement.

Program Outcomes

Students completing the degree will:

PSLO1: Identify and implement safety procedures involved in diagnosis, service, and repair of all major light vehicle components and systems.

PSLO2: Analyze and interpret diagnostic and test information to formulate correct repair procedures.

PSLO3: Demonstrate correct repair strategies and techniques by applying knowledge of system operation and demonstrating mechanical skills to accomplish repair tasks.