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# 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 <sup>2</sup>		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 <sup>2</sup>		3
	Semester Total	15
4th semester		
Select from el	ectives <sup>3</sup>	7-9
Diversity <sup>2</sup>		3
Communications <sup>3</sup>		
	Semester Total	13-15
	Total Units	62-64

<sup>2</sup> See approved General Education list for the AAS Degree. (https:// catalog.tmcc.edu/degrees-certificates/general-education/aas/) <sup>3</sup> 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.
- 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 Re	quirements	
Diversity <sup>1</sup>		[3]
Communications/Engl	ish	6
Communications -	Recommended:	
BUS 107	<b>Business Speech Communications</b>	
English - Recomme	ended:	
ENG 107	Technical Communications I	
Fine Arts/Humanities/	Social Science	3
Human Relations <sup>1</sup>		[3]
Requirement is sat following courses:	isfied through embedded curriculum in the	
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 <sup>1</sup>		[3]
Requirement is sat following courses:	isfied through embedded curriculum in the	
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 Constitut	ions	3
Core Requirements		
AUTO 111	Automotive Electricity	4
OSH 222	General Industry Safety	1
Emphasis Requireme	nts	
AUTO 101	Introduction to General Mechanics	4
AUTO 112	Automotive Electricity II	4
AUTO 136	Engine Repair	5
AUTO 145	Automotive Brakes	5



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

<sup>1</sup> 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.