

# TRANSPORTATION TECHNOLOGIES, AAS

## Automotive Certified Technician

Associate of Applied Science, Transportation Technologies, Automotive Certified Technician program is certified by the National Automotive Technicians Education Foundation (NATEF), 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.

## Outcomes

Students completing the degree will:

- Identify and implement safety procedures involved in diagnosis, service, and repair of all major light vehicle components and systems.
- Analyze and interpret diagnostic and test information to formulate correct repair procedures.
- Demonstrate correct repair strategies and techniques by applying knowledge of system operation and demonstrating mechanical skills to accomplish repair tasks.

AAS degrees are generally non-transfer degrees that are 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 (<http://catalog.tmcc.edu/degrees-certificates/general-education/aas>).
4. Have no financial or library obligation to the college.

Code	Title	Units
<b>General Education Requirements</b>		
<i>Diversity</i> <sup>1</sup>		[3]
<i>Communications/English</i>		6
Recommended:		
ENG 107	Technical Communications I	
<i>Fine Arts/Humanities/Social Science</i>		3
<i>Human Relations</i> <sup>1</sup>		[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	
<i>Mathematics</i> <sup>1</sup>		[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	
<i>Science</i>		3
Recommended:		
PHYS 100	Introductory Physics	
<i>U.S./Nevada Constitutions</i>		3
<b>Core Requirements</b>		
AUTO 111	Automotive Electricity	4
DT 211	Light Duty Performance	2
OSH 222	General Industry Safety	1
<b>Emphasis Requirements</b>		
AUTO 101	General Auto	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
<b>Elective Requirements</b>		
Select Track 1 or Track 2		9
<i>Track 1 - Engine Performance</i>		
Select 9 units of the following:		
AUTO 165	Auto Heating and Air Conditioning	
AUTO 235	Engine Performance III	
AUTO 290	Internship in Automotive Level I	
<i>Track 2 - Drive Trains</i>		
Select 9 units of the following:		
AUTO 205	Manual Drive Trains and Axles	
AUTO 216	Automatic Transmissions	
AUTO 290	Internship in Automotive Level I	
Total Units		66

<sup>1</sup> Course may also count toward degree requirements. Please consult with Academic Advisement.

1st semester	Units
AUTO 101 General Auto	4
Communications/English <sup>2</sup>	3
OSH 222 General Industry Safety	1
Semester Total	8
2nd semester	Units
AUTO 111 Automotive Electricity	4
AUTO 112 Automotive Electricity II	4
AUTO 136 Engine Repair	5
Semester Total	13

**3rd semester**

AUTO 145	Automotive Brakes	5
AUTO 150	Steering and Suspension Systems	5
AUTO 225	Engine Performance I	4
AUTO 227	Engine Performance II	4
Semester Total		18

**4th semester**

AUTO 265	Electrical/Electronic Systems III	4
U.S. and Nevada Constitutions <sup>2</sup>		3
Science		3
Select an elective from Track 1 or Track 2 <sup>3</sup>		4
Semester Total		14

**5th semester**

Diversity/Fine Arts/Humanities/Social Science <sup>2</sup>		3
DT 211	Light Duty Performance	2
Select an elective from Track 1 or Track 2 <sup>3</sup>		5
Communications/English <sup>3</sup>		3
Semester Total		13
Total Units		66

<sup>2</sup> See approved General Education list for the AAS Degree. (<http://catalog.tmcc.edu/degrees-certificates/general-education/aas>)

<sup>3</sup> See program recommendations or requirements.