

ASSOCIATE OF APPLIED SCIENCE - TRANSPORTATION TECHNOLOGIES - AUTOMOTIVE CERTIFIED TECHNICIAN EMPHASIS

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.

Degree Outcomes

Students completing the degree will:

- Fulfill the requirements for the Associate of Applied Science.
- Demonstrate competency in their specified emphasis.

Emphasis Outcomes

Students completing the emphasis 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.

General Education Requirements

<i>Diversity</i> ¹	[3]
<i>Communications/English</i>	6
Recommended:	
ENG 107	Technical Communications I
<i>Fine Arts/Humanities/Social Science</i>	3
<i>Human Relations</i>	3
Recommended:	
CE 201	Workplace Readiness

<i>Mathematics</i>	3	
Recommended:		
MATH 108	Math for Technicians (or higher)	
<i>Science</i>	3	
Recommended:		
PHYS 100	Introductory Physics	
<i>U.S./Nevada Constitutions</i>	3	
Core Requirements		
AUTO 111	Automotive Electricity	4
DT 211	Light Duty Performance	2
OSH 222	General Industry Safety	1
Emphasis Requirements		
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
Elective Requirements		
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		72

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

Course	Title	Units
1st semester		
AUTO 101	General Auto	4
Communications/English ²		3
OSH 222	General Industry Safety	1
Semester Total		8
2nd semester		
AUTO 111	Automotive Electricity	4
AUTO 112	Automotive Electricity II	4
AUTO 136	Engine Repair	5
Mathematics ³		3
Semester Total		16
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 ²		3
Science		3
Select an elective from Track 1 or Track 2 ³		4
Semester Total		14
5th semester		
Diversity/Fine Arts/Humanities/Social Science ²		3
Human Relations ³		3
DT 211	Light Duty Performance	2
Select an elective from Track 1 or Track 2 ³		5
Communications/English ³		3
Semester Total		16
Total Units		72

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

³ See program recommendations or requirements.