

Automotive Certified Technician Emphasis

Transportation Technologies Degree

Associate of Applied Science

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.

General Education Requirements

Diversity	(3 credits)
English/Communications	6 credits
Recommended: ENG 107	
Human Relations	3 credits
Recommended: CE 201	
Quantitative Reasoning	3 credits
Recommended: MATH 108 or higher	
Science	3 credits
Recommended: PHYS 100	
Social Science/Humanities	3 credits
U.S. and Nevada Constitutions	3 credits
Total General Education Requirements	21 Credits

Core Requirements

AIT 110	General Industrial Safety.....	1
AUTO 111	Automotive Electricity	4
DT 211	Light Duty Performance	2

Total Core Requirements 7 Credits

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

Total Emphasis Requirements 35 Credits

Elective Requirements

Choose from one of the following tracks:

Track 1—Engine Performance (choose 9 credits)

AUTO 165	Auto Heating and Air Conditioning.....	5
AUTO 235	Engine Performance III.....	4
AUTO 290	Internship in Auto Level 1.....	4-5

Track 2—Drive Trains (choose 9 credits)

AUTO 205	Manual Drive Trains and Axles.....	4
AUTO 216	Automatic Transmissions.....	5
AUTO 290	Internship in Auto Level 1.....	4-5

Total Elective Requirements 9 Credits

Total Degree Requirements 72 Credits

Suggested Course Sequence

First Year	Course #	Title	Credits
1st Semester—Summer			
Emphasis	AUTO 101	General Auto	4
English	ENG 101	Composition I	3
			Total 7
2nd Semester—Fall			
Core	AIT 110	General Industrial Safety	1
Core	AUTO 111	Automotive Electricity	4
Emphasis	AUTO 145	Automotive Brakes	5
Emphasis	AUTO 150	Steering and Suspension Systems	5
Quantitative Reasoning	MATH 108	Math for Technicians	3
			Total 18
3rd Semester—Spring			
Emphasis	AUTO 112	Automotive Electricity II	4
Emphasis	AUTO 136	Engine Repair	5
Emphasis	AUTO 225	Engine Performance I	4
Science	PHYS 100	Introductory Physics	3
			Total 16
Second Year	Course #	Title	Credits
1st Semester—Fall			
Emphasis	AUTO 227	Engine Performance II	4
Emphasis	AUTO 265	Electrical/Electronic Systems III	4
U.S. and Nevada Constitutions	Elective		3
Track Requirement	Elective	Choose Track 1 or Track 2	4
			Total 15
2nd Semester—Spring			
Humanities/Diversity	AAD 201	History of the Built Environment	3
Human Relations	CE 201	Workplace Readiness	3
Core	DT 211	Light Duty Performance	2
Track Requirement	Elective	Choose Track 1 or Track 2	5
Communications	ENG 107	Technical Communications I	3
			Total 16
			Degree Total 72

