

TRANSPORTATION

AUTOMOTIVE TECHNICIAN

* All students applying for the transportation programs are **REQUIRED to attend a Tuesday Campus Visit**

Delivery: Daytime Classes

Start: Fall or Spring Semester, Full-Time

AWARDS

Automotive Technician A.A.S. Degree.	72 cr.
Automotive Technician Diploma.	66 cr.
Automotive Electronics & HVAC Diploma	35 cr.
Automotive Engine Performance Diploma.	35 cr.
Automotive Powertrain Diploma	35 cr.
Automotive Vehicle Maintenance Certificate.	18 cr.

MAJOR DESCRIPTION

As skilled professionals, automotive technicians accurately diagnose mechanical problems related to engine, transmission, fuel injection, suspension and electrical systems. Students learn to maintain and repair engine, chassis, drive train, front-wheel drive, fuel injection, and electrical and emission systems. Instruction involves classroom theory, demonstrations, computer applications and hands-on car repair.

The Vehicle Maintenance programs is designed to introduce students to the automotive industry and provide opportunities to obtain the entry level fundamental knowledge, skills, training and credentials needed for employment and advancement in transportation career pathways. The curriculum follows the standards defined by the ASE Education Foundation which ensures all training meets the highest standards. Students who graduate from this program will be able to work for independent repair facilities and dealerships in maintenance and light repair.

WORK ENVIRONMENT

Automotive technicians land jobs at dealerships, independent shops and specialty shops. They generally work indoors with good ventilation and lighting as well as strong safety precautions.

POTENTIAL JOB TITLES

- Automotive Technician
- Automobile Service Advisor
- Automotive Repair Technician
- Automotive Engineer
- Service Manager
- Light Duty Maintenance Technician
- Fleet Repair Technician
- Lube Technician
- Tire Technician

SALARY DATA

See latest data at careerwise.minnstate.edu.

- Average Wage: \$21.89/hour
- Top Earners: \$32.10/hour

ACCREDITATION

This program is accredited by the ASE Education Foundation.

AUTOMOTIVE TECHNICIAN A.A.S. DEGREE

This is a sample course sequence.

Please contact your program advisor regarding your academic plans.

First Year - First Semester 18 cr

AUTM1003	Automotive Fundamentals.....	2
AUTM1013	Automotive Starting and Charging Systems.....	3
AUTM1023	Automotive Suspension Systems.....	3
AUTM1033	Automotive Brake Systems.....	3
AUTM1043	Vehicle Maintenance.....	4
ENGL1150	Composition I or	
ENGL1200	Technical Writing.....	3

First Year - Second Semester 17 cr

AUTM2117	Automotive Electronics 1.....	3
AUTM2127	Automotive Electronics 2.....	3
AUTM2137	Automotive HVAC Systems.....	3
AUTM2147	Advanced Automotive Electronics.....	5
	General Elective (any MnTC area)	
	<i>PHIL1200 recommended</i>	3

Second Year - First Semester 17 cr

AUTM2218	Automotive Engine Fundamentals.....	3
AUTM2228	Automotive Transmission Fundamentals.....	3
AUTM2238	Automotive Driveline Fundamentals.....	3
AUTM2248	Advanced Powertrain.....	5
	General Elective (MnTC Goal 3)	
	<i>BIOL1110 recommended</i>	3

Second Year - Second Semester 20 cr

AUTM2314	Engine Performance 1.....	3
AUTM2324	Engine Performance 2.....	3
AUTM2334	Engine Performance 3.....	3
AUTM2344	Advanced Engine Performance.....	5
SPEE1020	Interpersonal Communication.....	3
	General Elective (any MnTC area)	
	<i>SOCY1010 recommended</i>	3

TOTAL PROGRAM REQUIREMENTS 72

AUTOMOTIVE TECHNICIAN DIPLOMA

This is a sample course sequence.

Please contact your program advisor regarding your academic plans.

First Year - First Semester 18 cr

AUTM1003	Automotive Fundamentals.....	2
AUTM1013	Automotive Starting and Charging Systems.....	3
AUTM1023	Automotive Suspension Systems.....	3
AUTM1033	Automotive Brake Systems.....	3
AUTM1043	Vehicle Maintenance.....	4
ENGL1150	Composition I or	
ENGL1200	Technical Writing.....	3

First Year - Second Semester 14 cr

AUTM2117	Automotive Electronics 1.....	3
AUTM2127	Automotive Electronics 2.....	3
AUTM2137	Automotive HVAC Systems.....	3
AUTM2147	Advanced Automotive Electronics.....	5

Second Year - First Semester 17 cr

AUTM2218	Automotive Engine Fundamentals.....	3
AUTM2228	Automotive Transmission Fundamentals.....	3
AUTM2238	Automotive Driveline Fundamentals.....	3
AUTM2248	Advanced Powertrain.....	5
	General Elective (any MnTC area)	
	<i>BIOL1110 recommended</i>	3

Second Year - Second Semester 17 cr

AUTM2314	Engine Performance 1.....	3
AUTM2324	Engine Performance 2.....	3
AUTM2334	Engine Performance 3.....	3
AUTM2344	Advanced Engine Performance.....	5
SPEE1020	Interpersonal Communication.....	3

TOTAL PROGRAM REQUIREMENTS 66

AUTOMOTIVE ELECTRONICS & HVAC DIPLOMA

*This is a sample course sequence.
Please contact your program advisor regarding your academic plans.*

First Year - First Semester		18 cr
AUTM1003	Automotive Fundamentals.	2
AUTM1013	Automotive Starting and Charging Systems	3
AUTM1023	Automotive Suspension Systems.	3
AUTM1033	Automotive Brake Systems	3
AUTM1043	Vehicle Maintenance.	4
ENGL1150	Composition I or	
ENGL1200	Technical Writing.	3

First Year - Second Semester		17 cr
AUTM2117	Automotive Electronics 1	3
AUTM2127	Automotive Electronics 2.	3
AUTM2137	Automotive HVAC Systems.	3
AUTM2147	Advanced Automotive Electronics	5
	General Elective (any MnTC area) <i>BIOL1110 recommended</i>	3

TOTAL PROGRAM REQUIREMENTS 35

AUTOMOTIVE POWERTRAIN DIPLOMA

*This is a sample course sequence.
Please contact your program advisor regarding your academic plans.*

First Year - First Semester		18 cr
AUTM1003	Automotive Fundamentals.	2
AUTM1013	Automotive Starting and Charging Systems	3
AUTM1023	Automotive Suspension Systems.	3
AUTM1033	Automotive Brake Systems	3
AUTM1043	Vehicle Maintenance.	4
ENGL1150	Composition I or	
ENGL1200	Technical Writing.	3

First Year - Second Semester		17 cr
AUTM2218	Automotive Engine Fundamentals	3
AUTM2228	Automotive Transmission Fundamentals.	3
AUTM2238	Automotive Driveline Fundamentals.	3
AUTM2248	Advanced Powertrain	5
	General Elective (any MnTC area) <i>BIOL1110 recommended</i>	3

TOTAL PROGRAM REQUIREMENTS 35

AUTOMOTIVE ENGINE PERFORMANCE DIPLOMA

*This is a sample course sequence.
Please contact your program advisor regarding your academic plans.*

First Year - First Semester		18 cr
AUTM1003	Automotive Fundamentals.	2
AUTM1013	Automotive Starting and Charging Systems	3
AUTM1023	Automotive Suspension Systems.	3
AUTM1033	Automotive Brake Systems	3
AUTM1043	Vehicle Maintenance.	4
ENGL1150	Composition I or	
ENGL1200	Technical Writing.	3

Second Year - Second Semester		17 cr
AUTM2314	Engine Performance 1	3
AUTM2324	Engine Performance 2.	3
AUTM2334	Engine Performance 3.	3
AUTM2344	Advanced Engine Performance	5
SPEE1020	Interpersonal Communication.	3

TOTAL PROGRAM REQUIREMENTS 35

AUTOMOTIVE VEHICLE MAINTENANCE CERTIFICATE

*This is a sample course sequence.
Please contact your program advisor regarding your academic plans.*

First Year - First Semester		18 cr
AUTM1003	Automotive Fundamentals.	2
AUTM1013	Automotive Starting and Charging Systems	3
AUTM1023	Automotive Suspension Systems.	3
AUTM1033	Automotive Brake Systems	3
AUTM1043	Vehicle Maintenance.	4
ENGL1150	Composition I or	
ENGL1200	Technical Writing.	3

TOTAL PROGRAM REQUIREMENTS 18



DAKOTA COUNTY
TECHNICAL COLLEGE

DCTC.EDU • 2020-2021 CATALOG

////////////////////////////////////
DCTC IS A MEMBER OF MINNESOTA STATE AND AN AFFIRMATIVE ACTION, EQUAL OPPORTUNITY EMPLOYER/EDUCATOR.

This information is available in an alternate format by calling 651-423-8469 or TTY/Minnesota Relay at 1-800-627-3529.