

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 Chassis Certificate	18 cr.
Automotive Electronics Certificate	18 cr.
Automotive Engine Performance Certificate	18 cr.
Automotive Powertrain Certificate	18 cr.

MAJOR DESCRIPTION

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

The curriculum follows the standards defined by the Automotive Service Excellence 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: \$24.72/hour
- Top Earners: \$35.47/hour

ACCREDITATION

This program is accredited by the ASE Education Foundation.

AUTOMOTIVE TECHNICIAN**A.A.S. DEGREE**

This is a suggested course sequence. New students can start with any semester course sequence but must have AUTM1000 as part of their first semester coursework.

Please contact your program advisor regarding your academic plans.

First Year - Fall Semester 18 cr

AUTM1000	Introduction to Automotive, Safety, and Pollution . . .	1
AUTM2007	Intro to Chassis Systems	2
AUTM2017	Automotive Brake Systems	3
AUTM2027	Automotive Suspension Systems	3
AUTM2037	Automotive HVAC Systems	3
AUTM2047	Advanced Automotive Chassis Systems	3
ENGL1150	Composition I or	
ENGL1200	Technical Writing	3

First Year - Spring Semester 17 cr

AUTM2157	Intro to Automotive Electricity and Electronics	2
AUTM2167	Automotive Electronics and Computers	3
AUTM2177	Automotive Starting and Charging Systems	3
AUTM2187	Vehicle Communication Systems	3
AUTM2197	Vehicle Accessory and Safety Systems	3
	General Elective (any MnTC area)	
	<i>PHIL1200 recommended</i>	3

Second Year - Fall Semester 17 cr

AUTM2208	Introduction to Powertrain Systems	2
AUTM2218	Automotive Engine Fundamentals	3
AUTM2228	Automotive Transmission Fundamentals	3
AUTM2238	Automotive Driveline Fundamentals	3
AUTM2258	Advanced Automotive Powertrain	3
	General Elective (MnTC Goal 3)	
	<i>BIOL1110 recommended</i>	3

Second Year - Spring Semester 20 cr

AUTM2354	Introduction to Engine Performance	2
AUTM2364	Engine Mechanical and Fuel Systems	3
AUTM2374	Engine Computer Control Systems	3
AUTM2384	Engine Ignition and Emission Systems	3
AUTM2394	Diesel, Hybrid, and Electric Drive	3
COMS1020	Interpersonal Communication	3
	General Elective (any MnTC area)	
	<i>SOCY1010 recommended</i>	3

TOTAL PROGRAM REQUIREMENTS 72

AUTOMOTIVE CHASSIS**CERTIFICATE**

Please contact your program advisor regarding your academic plans.

First Year - Fall Semester 18 cr

AUTM1000	Introduction to Automotive, Safety, and Pollution . . .	1
AUTM2007	Intro to Chassis Systems	2
AUTM2017	Automotive Brake Systems	3
AUTM2027	Automotive Suspension Systems	3
AUTM2037	Automotive HVAC Systems	3
AUTM2047	Advanced Automotive Chassis Systems	3
ENGL1150	Composition I or	
ENGL1200	Technical Writing	3

TOTAL PROGRAM REQUIREMENTS 18

AUTOMOTIVE ELECTRONICS**CERTIFICATE**

Please contact your program advisor regarding your academic plans.

First Year - Fall Semester 18 cr

AUTM1000	Introduction to Automotive, Safety, and Pollution . . .	1
AUTM2157	Intro to Automotive Electricity and Electronics	2
AUTM2167	Automotive Electronics and Computers	3
AUTM2177	Automotive Starting and Charging Systems	3
AUTM2187	Vehicle Communication Systems	3
AUTM2197	Vehicle Accessory and Safety Systems	3
	General Elective (any MnTC area)	
	<i>PHIL1200 recommended</i>	3

TOTAL PROGRAM REQUIREMENTS 18

AUTOMOTIVE ENGINE PERFORMANCE CERTIFICATE

Please contact your program advisor regarding your academic plans.

First Year - Fall Semester **18 cr**

AUTM1000	Introduction to Automotive, Safety, and Pollution . . .	1
AUTM2354	Introduction to Engine Performance.	2
AUTM2364	Engine Mechanical and Fuel Systems.	3
AUTM2374	Engine Computer Control Systems.	3
AUTM2384	Engine Ignition and Emission Systems.	3
AUTM2394	Diesel, Hybrid, and Electric Drive.	3
COMS1020	Interpersonal Communication.	3

TOTAL PROGRAM REQUIREMENTS 18

AUTOMOTIVE POWERTRAIN CERTIFICATE

Please contact your program advisor regarding your academic plans.

First Year - Fall Semester **18 cr**

AUTM1000	Introduction to Automotive, Safety, and Pollution . . .	1
AUTM2208	Introduction to Powertrain Systems	2
AUTM2218	Automotive Engine Fundamentals	3
AUTM2228	Automotive Transmission Fundamentals.	3
AUTM2238	Automotive Driveline Fundamentals.	3
AUTM2258	Advanced Automotive Powertrain	3
	General Elective (MnTC Goal 3 or 4)	
	<i>BIOL1110 recommended</i>	3

TOTAL PROGRAM REQUIREMENTS 18





DAKOTA COUNTY
TECHNICAL COLLEGE

A member of Minnesota State

DCTC.EDU • 2022-2023 CATALOG

////////////////////////////////////
DCTC IS 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.