

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
Location: Rosemount Campus

Outcomes

Automotive Technician A.A.S. Degree	72 cr.
Automotive Technician Diploma	66 cr.
Automotive Electronics & HVAC Certificate	35 cr.
Automotive Engine Performance Certificate	35 cr.
Automotive Powertrain Certificate	35 cr.
Automotive Customer Service Specialist Certificate.	33 cr.
Automotive Maintenance & Light Repair.	36 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 Light Maintenance & Repair and Vehicle Maintenance programs are 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 National Automotive Technician Education Foundation (NATEF) 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

- Average Wage: \$19.30/hour
- Top Earners: \$23.92/hour

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

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 Credits		18

First Year - Second Semester

AUTM2117	Automotive Electronics 1	3
AUTM2127	Automotive Electronics 2	3
AUTM2137	Automotive HVAC Systems	3
AUTM2147	Advanced Automotive Electronics	5
PHIL1200	Critical Thinking	3
Total Credits		17

Second Year - First Semester

AUTM2218	Automotive Engine Fundamentals	3
AUTM2228	Automotive Transmission Fundamentals	3
AUTM2238	Automotive Driveline Fundamentals	3
AUTM2248	Advanced Powertrain	5
BIOL1110	Environmental Science	3
Total Credits		17

Second Year - Second Semester

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 Credits		17

SOCY1010	Marriage and the Family	3
----------	-------------------------	---

TOTAL PROGRAM REQUIREMENTS 72

* Final 2017-2018 A.A.S. Degree pending Minnesota State Approval.

AUTOMOTIVE TECHNICIAN - DIPLOMA

This is a sample course sequence.

Please contact your program advisor regarding your academic plans.

First Year - First Semester

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 Credits		18

First Year - Second Semester

AUTM2117	Automotive Electronics 1	3
AUTM2127	Automotive Electronics 2	3
AUTM2137	Automotive HVAC Systems	3
AUTM2147	Advanced Automotive Electronics	5
Total Credits		14

Second Year - First Semester

AUTM2218	Automotive Engine Fundamentals	3
AUTM2228	Automotive Transmission Fundamentals	3
AUTM2238	Automotive Driveline Fundamentals	3
AUTM2248	Advanced Powertrain	5
BIOL1110	Environmental Science (recommended)	2 or 3
Total Credits		17

Second Year - Second Semester

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 Credits		17

TOTAL PROGRAM REQUIREMENTS 66

** Final 2017-2018 Diploma pending Minnesota State Approval.*

AUTOMOTIVE ELECTRONICS & HVAC - CERTIFICATE

This is a sample course sequence.

Please contact your program advisor regarding your academic plans.

First Year - First Semester

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 Credits		18

First Year - Second Semester

AUTM2117	Automotive Electronics 1	3
AUTM2127	Automotive Electronics 2	3
AUTM2137	Automotive HVAC Systems	3
AUTM2147	Advanced Automotive Electronics	5
BIOL1110	Environmental Science	3
Total Credits		17

TOTAL PROGRAM REQUIREMENTS 35

** Final 2017-2018 Certificate pending Minnesota State Approval.*



DAKOTA COUNTY
TECHNICAL COLLEGE

Real Education. Real Results.

2017-2018 CATALOG

AUTOMOTIVE ENGINE PERFORMANCE - CERTIFICATE

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

First Year - First Semester

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 Credits		18

Second Year - Second Semester

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 Credits		17

TOTAL PROGRAM REQUIREMENTS 35

** Final 2017-2018 Certificate pending Minnesota State Approval.*

AUTOMOTIVE POWERTRAIN - CERTIFICATE

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

First Year - First Semester

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 Credits		18

First Year - Second Semester

AUTM2218	Automotive Engine Fundamentals	3
AUTM2228	Automotive Transmission Fundamentals	3
AUTM2238	Automotive Driveline Fundamentals	3
AUTM2248	Advanced Powertrain	5
BIOL1110	Environmental Science	3
Total Credits		17

TOTAL PROGRAM REQUIREMENTS 35

** Final 2017-2018 Certificate pending Minnesota State Approval.*

AUTOMOTIVE CUSTOMER SERVICE SPECIALIST - CERTIFICATE

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

First Year - First Semester

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 Credits		18

First Year - Second Semester

SPEE1020	Interpersonal Communication	3
PHIL1200	Critical Thinking	3
MKTC1100	Fundamentals of Sales	3
BUSN1040	Organizational Behavior	3
	General Education Elective	3
Total Credits		15

TOTAL PROGRAM REQUIREMENTS 33

** Final 2017-2018 Certificate pending Minnesota State Approval.*



DAKOTA COUNTY
TECHNICAL COLLEGE

Real Education. Real Results.

2017-2018 CATALOG

**AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR
- CERTIFICATE**

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

First Year - First Semester

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 Credits		18

First Year - Second Semester

AUTM1053	MLR Engine Repair	4
AUTM1063	MLR Engine Performance	4
AUTM1073	MLR Advanced Lab	5
AUTM2970	Automotive Internship	2
BIOL1110	Environmental Science	3
Total Credits		18

TOTAL PROGRAM REQUIREMENTS 36

** Final 2017-2018 Certificate pending Minnesota State Approval.*

**AUTOMOTIVE VEHICLE MAINTENANCE -
CERTIFICATE**

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

First Year - First Semester

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 Credits		18

TOTAL PROGRAM REQUIREMENTS 18

** Final 2017-2018 Certificate pending Minnesota State Approval.*



**DAKOTA COUNTY
TECHNICAL COLLEGE**

Real Education. Real Results.

2017-2018 CATALOG