

AUTOMOTIVE TECHNICIAN

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* 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 Maintenance & Light Repair Diploma. 36 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 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

Accreditation

This program is accredited by the National Automotive Technician Education Foundation (NATEF).

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

AUTOMOTIVE TECHNICIAN – DIPLOMA

*This is a sample course sequence.
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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)	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
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AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR – DIPLOMA

*This is a sample course sequence.
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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 2018-2019 Diploma pending Minnesota State Approval.*

AUTOMOTIVE ELECTRONICS & HVAC –DIPLOMA

*This is a sample course sequence.
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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

AUTOMOTIVE ENGINE PERFORMANCE – DIPLOMA

*This is a sample course sequence.
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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

AUTOMOTIVE POWERTRAIN – 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

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

**AUTOMOTIVE VEHICLE MAINTENANCE -
CERTIFICATE**

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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

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2018-2019 CATALOG

