

# AUTOMOTIVE TECHNICIAN

Delivery: Daytime Program  
 Start: Fall or Spring Semester, Full-Time  
 Location: Rosemount Campus

## Outcome

Automotive Technician A.A.S. Degree ..... 72 credits  
 Automotive Technician Diploma ..... 65 credits  
 Driveability Certificate ..... 20 credits  
 Drivetrain/Transmission Certificate..... 20 credits  
 Engines/General Automotive Certificate..... 20 credits  
 Brakes, Suspension and Electrical Certificate..... 20 credits

## 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.

## 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

- Automobile Mechanic
- Automobile Service Advisor
- Automotive Repair Technician
- Automotive Technician
- Auto Mechanic
- Automotive Engineer

## Salary Data

- Average Wage: \$19.95/hour
- Top Earners: \$29.49/hour

## AUTOMOTIVE TECHNICIAN – A.A.S. DEGREE

### Fall Semester – First Year

Course#	Course Title	Credits
AUTM2000	Basic Automotive Electrical/Battery	3
AUTM2010	Suspension, Steering, & Alignment Systems	3
AUTM2020	Brakes	4
AUTM2031	Differential and Four-Wheel Drive	3
COML1400	Introduction to Computers	3
	General Education Elective**	3
<b>Total Credits</b>		<b>19</b>

### Spring Semester – First Year

Course#	Course Title	Credits
AUTM2300	Driveability and Emissions	4
AUTM2310	Body and Engine Electrical Systems	4
AUTM2320	Automotive Computers and Fuel Injection	5
SPEE1020	Interpersonal Communication	3
	General Education Elective**	3
<b>Total Credits</b>		<b>19</b>

### Fall Semester – Second Year

Course#	Course Title	Credits
AUTM2120	Engine Overhaul, Theory, Diagnosis, & Repair	7
AUTM2136	Heating, Ventilation, and Air Conditioning	3
AUTM2140	General Automotive	3
	General Education Elective (MnTC Goal 3 or 4)**	4
<b>Total Credits</b>		<b>17</b>

### Spring Semester – Second Year

Course#	Course Title	Credits
AUTM2200	Manual Transmissions, Transaxle & Clutches	4
AUTM2210	Basic Automatic Transmission/Transaxle	4
AUTM2220	Advanced Automatic Transmission/Transaxle	5
	General Education Elective**	4
<b>Total Credits</b>		<b>17</b>

**TOTAL PROGRAM REQUIREMENTS 72**

*This is a sample course sequence resulting in an A.A.S. degree. Please consult your program advisor regarding your academic plans.*

*\*\* Select General Education electives from any MnTC goal area. See pages 116-118 for MnTC goal areas.*

## AUTOMOTIVE TECHNICIAN – DIPLOMA

### Fall Semester – First Year

Course#	Course Title	Credits
AUTM2000	Basic Automotive Electrical/Battery	3
AUTM2010	Suspension, Steering, & Alignment Systems	4
AUTM2020	Brakes	4
AUTM2031	Differential and Four-Wheel Drive	3
COML1400	Introduction to Computers	3
<b>Total Credits</b>		<b>17</b>

### Spring Semester – First Year

Course#	Course Title	Credits
AUTM2300	Driveability and Emissions	5
AUTM2310	Body and Engine Electrical Systems	4
AUTM2320	Automotive Computers and Fuel Injection	5
SPEE1020	Interpersonal Communication	3
<b>Total Credits</b>		<b>17</b>

### Fall Semester – Second Year

Course#	Course Title	Credits
AUTM2120	Engine Overhaul, Theory, Diagnosis, & Repair	8
AUTM2136	Heating, Ventilation, and Air Conditioning	3
AUTM2140	General Automotive	3
ENGL1100	Writing and Research Skills (or ENGL1102)	3
<b>Total Credits</b>		<b>17</b>

### Spring Semester – Second Year

Course#	Course Title	Credits
AUTM2200	Manual Transmissions, Transaxle & Clutches	4
AUTM2210	Basic Automatic Transmission/Transaxle	5
AUTM2220	Advanced Automatic Transmission/Transaxle	5
<b>Total Credits</b>		<b>14</b>
<b>TOTAL PROGRAM REQUIREMENTS</b>		<b>65</b>

*This is a sample course sequence resulting in a diploma.  
Please consult your program advisor regarding your academic plans.*

## DRIVEABILITY – CERTIFICATE

### Fall Semester – First Year

Course#	Course Title	Credits
AUTM2000	Basic Automotive Electrical/Battery	3
AUTM2300	Driveability and Emissions	5
AUTM2310	Body and Engine Electrical Systems	4
AUTM2320	Automotive Computers and Fuel Injection	5
	General Education**	3
<b>Total Credits</b>		<b>20</b>
<b>TOTAL PROGRAM REQUIREMENTS</b>		<b>20</b>

*This is a sample course sequence resulting in a certificate.  
Please consult your program advisor regarding your academic plans.*

\*\* General Education – Select from SPEE1020, COML1400 or ENGL1100.

## DRIVETRAIN/TRANSMISSION – CERTIFICATE

### Fall Semester – First Year

Course#	Course Title	Credits
AUTM2000	Basic Automotive Electrical/Battery	3
AUTM2200	Manual Transmissions, Transaxle & Clutches	4
AUTM2210	Basic Automatic Transmission/Transaxle	5
AUTM2220	Advanced Automatic Transmission/Transaxle	5
	General Education**	3
<b>Total Credits</b>		<b>20</b>
<b>TOTAL PROGRAM REQUIREMENTS</b>		<b>20</b>

*This is a sample course sequence resulting in a certificate.  
Please consult your program advisor regarding your academic plans.*

\*\* General Education – Select from SPEE1020, COML1400 or ENGL1100.

## ENGINES/GENERAL AUTOMOTIVE – CERTIFICATE

### Fall Semester – First Year

Course#	Course Title	Credits
AUTM2000	Basic Automotive Electrical/Battery	3
AUTM2120	Engine Overhaul, Theory, Diagnosis, & Repair	8
AUTM2136	Heating, Ventilation, and Air Conditioning	3
AUTM2140	General Automotive	3
	General Education**	3
<b>Total Credits</b>		<b>20</b>
<b>TOTAL PROGRAM REQUIREMENTS</b>		<b>20</b>

*This is a sample course sequence resulting in a certificate.  
Please consult your program advisor regarding your academic plans.*

\*\* General Education – Select from SPEE1020, COML1400 or ENGL1100.

## BRAKES, SUSPENSION AND ELECTRICAL – CERTIFICATE

### Fall Semester – First Year

Course#	Course Title	Credits
AUTM2000	Basic Automotive Electrical/Battery	3
AUTM2010	Suspension, Steering, & Alignment Systems	4
AUTM2020	Brakes	4
AUTM2031	Differential and Four-Wheel Drive	3
	General Education**	3
<b>Total Credits</b>		<b>17</b>
<b>TOTAL PROGRAM REQUIREMENTS</b>		<b>17</b>

*This is a sample course sequence resulting in a certificate.  
Please consult your program advisor regarding your academic plans.*

\*\* General Education – Select from SPEE1020, COML1400 or ENGL1100.