

# WESTERN DAKOTA TECH

## **AUTOMOTIVE TECHNOLOGY**

### **Associate of Applied Science, 64.5-67.5 Credit Hours, 18-Month Program**

The Automotive Technology program will provide education in most types of vehicles.

<b>Course</b>	<b>No.</b>	<b>Course Title</b>	<b>Credits</b>
<b>General Education Requirements</b>			
CIS	105	MICROCOMPUTER SOFTWARE APPLICATIONS I	3
ENGL	106	WORKPLACE COMMUNICATIONS I*	3
MATH	100	ELEMENTARY ALGEBRA** <i>or higher</i>	3
PSYC	103	HUMAN RELATIONS IN THE WORKPLACE	3
SOC	100	INTRODUCTION TO SOCIOLOGY	3
<b>Total</b>			<b>15</b>
<b>Technical Requirements</b>			
AT	100	INTRODUCTION TO AUTOMOTIVE TECHNOLOGY***	.5
AT	111	HEATING, VENTILATION, AND AIR CONDITIONING	3
AT	131	HYBRID AND ELECTRIC VEHICLE SYSTEMS	1
AT	135	AUTOMOTIVE DRIVETRAINS	9
AT	140	BRAKES/STEERING AND SUSPENSION	8
AT	205	ELECTRICITY AND ELECTRONIC SYSTEMS	9
AT	225	ENGINE PERFORMANCE	9
AT	240	ENGINE OVERHAUL	4
AT	245	ENGINE CONSTRUCTION AND OPERATION	3
AT	250	SHOP AND PARTS MANAGEMENT	1
AT	299	INTERNSHIP (OPTIONAL)	3
WDM	100	WELDING AND FABRICATION FOR GENERAL APPLICATIONS	2
<b>Total</b>			<b>49.5-52.5</b>

\*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

\*\*Prerequisite: Acceptable ACCUPLACER score or Basic Math.

\*\*\* AT 100 is to be taken in the first semester of enrollment in the Automotive Technology Program.

2022-2023 Academic Catalog - 5/2022

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**Learn. Do. Now.**

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## Semester Breakdown AAS

First Semester			Second Semester		
		CR			CR
AT 100	Introduction to Automotive Technology (first 10 days)	.5	AT 100	Introduction to Automotive Technology (first 10 days)	.5
AT 111	Heating, Ventilation, and Air Conditioning (first 4 weeks)	3	AT 131	Hybrid and Electric Vehicle Systems	1
AT 140	Brakes/Steering and Suspension (last 12 weeks)	8	AT 135	Automotive Drivetrains	9
CIS 105	Microcomputer Software Applications I	3	MATH 100	Elementary Algebra <i>or higher</i>	3
PSYC 103	Human Relations in the Workplace	3	WDM 100	Welding and Fabrication for General Applications	2
<b>Total Credit Hours</b>		<b>17- 17.5</b>	<b>Total Credit Hours</b>		<b>15-15.5</b>
Third Semester			Fourth Semester		
		CR			CR
AT 205	Electricity and Electronic Systems (first 12 weeks)	9	AT 225	Engine Performance (last 12 weeks)	9
AT 245	Engine Construction and Operation (last 4 weeks)	3	AT 240	Engine Overhaul (first 4 weeks)	4
AT 250	Shop and Parts Management	1	AT 299	Internship <i>optional</i>	3
ENGL 106	Workplace Communications	3	SOC 100	Introduction to Sociology	3
<b>Total Credit Hours</b>		<b>16</b>	<b>Total Credit Hours</b>		<b>16-19</b>

If you are or have been convicted, pleaded guilty or no contest to, or received a suspended imposition of sentence for a felony or certain misdemeanors, you are advised that you may not be able to complete all course requirements for your chosen program, you may be prevented from taking required certification/licensure examinations in your chosen program field, and you may be prevented from gaining employment in your program field.