

Automotive Technology

Degree Type

Associate in Applied Science or Diploma

Contact Information

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Delivery Methods

Face-to-Face: Wahpeton

The Automotive Technology curriculum prepares students for employment in the vast and broad automotive technology industry.

Students are provided with experiences emphasizing diagnostic and repair skills with extensive shop time. Students test, diagnose, adjust, and repair automotive systems including automatic transmissions, brakes, driveability, electrical and electronics, engine repair, heating and air conditioning, suspension and steering, and manual drivetrain and axles. Students' abilities in communications, human relations and other aspects of general education are also enhanced through coursework.

Graduates gain employment as automotive repair technicians in automotive dealerships, independent automotive shops, or automotive service centers. Graduates may choose to specialize in automatic transmissions, brakes, driveability, electrical and electronics, engine repair, heating and air conditioning, suspension and steering, or manual drivetrain and axles. Many graduates have advanced from automotive repair technicians to team leaders, service writers, service managers, owners, and automotive vocational teachers.

Students interested in pursuing additional education may return for advanced automotive classes or return for one additional year and earn a second major, Auto and Diesel Master Technician. Students interested in pursuing an advanced degree will find the Associate in Applied Science degree in Automotive Technology provides transfer options to four-year colleges and universities in related fields.

Going Green: With growing concern about environmental pollution, the automotive industry has responded by developing alternative drive and fuel systems such as electric, hybrid. Automotive Technicians will have to have knowledge of these systems to be a viable employee in this field.

This program is accredited by the National Automotive Technicians Education Foundation, Inc. (NATEF) at the Automotive Service Excellence (ASE) Master Automobile Service Technology level.

NOTE: This program requires an EliteBook 850 Laptop or equivalent. Please refer to the NDSCS website for specifications. The cost will be approximately \$1065.00 if purchased through NDSCS. For further information, contact Terry Marohl, department chair, at 701-671-2308.

Admission Requirements*

The applicants must be high school graduates or equivalent. Students considered for acceptance must complete all admission requirements.

Please Note: Students are placed into English, math and reading courses based on ACT, ACCUPLACER or other nationally recognized tests. Please see www.ndscs.edu/current-students/student-success/test-center for the NDSCS Course Placement Policy and testing information. Students may be on an extended plan of study pending their course placement.

**Program Admission Requirements are subject to revision. Please check the department or program website under Program Admission Requirements for current information.*

Award

Upon successful completion of the required courses, students will be awarded a diploma or Associate in Applied Science degree in Automotive Technology.

Required Courses

Course Code	Title	Credits
AUTO 103	Power Trains/Brakes	3
AUTO 143	Steering, Suspension, and Wheel Alignment	3
AUTO 165	Automotive Electrical and Electronics	5
AUTO 168	Hybrid and Electrical Vehicle Systems	1
AUTO 188	Driveability Procedures I	5
AUTO 206	Chassis Repair/Body Electrical	7
AUTO 216	Engine Repair	7
AUTO 226	Automatic Transmissions/Transaxles	7
AUTO 286	Driveability Procedures	7
MFGT 110	Industrial Shop Practices	2
TECH 109	Air Conditioning	2

Related/General Education Courses Diploma

Course Code	Title	Credits
FYE 101	Science of Success	1
ENGL 105	Technical Communications	3
MATH 120	Basic Mathematics I	2
MATH 123	Basic Mathematics II	2
	Social and Behavioral Sciences, Humanities, History and/or Computer Electives (4 credits)	4
	Wellness Elective (1 credit)	1

Associate in Applied Science

Course Code	Title	Credits
FYE 101	Science of Success	1
ENGL 110	College Composition I	3
	English/Communication Elective (choose one)	3
MATH 120	Basic Mathematics I	2
MATH 123	Basic Mathematics II	2
	Wellness Elective(s) (2 credits)	2
	Social and Behavioral Sciences, Humanities, History and/or Computer Electives (4 credits)	4
AUTO 297	Cooperative Education	1
	Total Required Credits	62-70