

AUTOMOTIVE TECHNOLOGY (AAS)

Associate of Applied Science

Career-Technical Program

Interest Areas:

Manufacturing and Trades

This program is designed to prepare students for employment as entry-level technicians in the automotive repair industry. All ASE (Automotive Service Excellence) areas will be taught through the use of lecture, mock-ups, and customer vehicles. Successful completion of each semester or permission of the instructor is required for admission to the next semester.

Due to the complexity of cars today, the industry requires a high degree of reading and comprehension skills. Placement in specific English and courses math is determined by the college assessment test. The North Idaho College Automotive Technology program is NATEF certified and is taught by ASE Master Technicians.

Current industry professionals may enroll in individual courses on a space-available basis and with the instructor's permission.

Program Website (https://www.nic.edu/programs/viewprogram.aspx?program_id=7)

Program Requirements

In addition to the specific Automotive Technology courses, students must take a minimum of 15 credits of A.A.S. general education courses as specified in the program below. (The math requirement should be taken during the student's first semester of the program.)

Course	Title	Credits
Semester 1		
AUTO-102	Automotive Technology Fundamentals and Safety	2
AUTO-111	Manual Drive Trains and Axles	2
AUTO-118	Electrical Systems	3
AUTO-119L	Automotive Lab I	7
GEM 3 - A.A.S. Mathematical Ways of Knowing		3-5
Credits		17-19
Semester 2		
AUTO-124	Brakes, Suspension and Steering	2
AUTO-127	Engine Repair	3
AUTO-129L	Automotive Lab II	7
ENGL-101	English Composition	3
Credits		15
Semester 3		
AUTO-231	Engine Performance I	3
AUTO-233	Electrical Systems II and HVAC	2
AUTO-235L	Advanced Automotive Lab III	7
GEM 6 - A.A.S. Social and Behavioral Ways of Knowing		3
Credits		15
Semester 4		
AUTO-241	Automatic Transmissions/Transaxles	3

AUTO-243	Engine Performance II	2
AUTO-245L	Advanced Automotive Lab IV	7
COMM-101	Introduction to Speech Communication	3
A.A.S. Institutionally Designated		3
Credits		18
Total Credits		65-67

Course Key



GEM



WCHE



AAS



Gateway



Milestone

Institutionally
Designated

Program Outcomes

Upon completion of the program, students will be able to:

- Understand, explain, and model proper safety procedures in regards to overall shop safety practices with emphasis on maintenance/repair of automotive systems. Complete and pass nationally recognized S/P2, online safety training before attending any lab courses.
- Effectively troubleshoot and repair the following automotive systems, following NATEF program standards:
 - Engine Repair
 - Manual Drive Train and Axles
 - Suspension and Steering systems
 - Brakes
 - Electrical systems
- Demonstrate good, productive work habits, and basic computation and communications skills when performing both technical and general functions required of an automotive technician.
- Demonstrate effective diagnosis and repair of the following automotive systems:
 - Engine Repair
 - Automatic Transmissions and Transaxles
 - Manual Drive Train and Axles
 - Suspension and Steering systems
 - Brakes
 - Electrical/Electronic systems
 - Heating and Air conditioning systems
 - Engine performance
- Analyze vehicle malfunctions and formulate a process of diagnosis.
- Employ the proper operation of mechanical and electrical test equipment.
- Evaluate test results to predict the most likely root cause.
- Formulate the most efficient repair procedure.

In addition to the program outcomes, students will meet the following North Idaho College General Education (GEM) Requirements: Written and Oral Communication; Mathematical Ways of Knowing; Social and Behavioral Ways of Knowing; and an additional program-designated or selected course from any of the GEM requirements.