

# Automotive Service Technology

The Automotive Service Technology program prepares graduates for employment in the automotive repair industry as maintenance and service technicians by providing skills training in all major areas of automotive diagnosis and repair.

In addition to relevant industry aligned technical courses, program GEC studies further prepare graduates for employment as service technicians and increase their opportunity to advance in an exciting field of career opportunities. Program graduates may also benefit from GEC credits earned to more seamlessly advance their education toward a wide array of baccalaureate degree programs.

## Skills and Competencies

Students utilize similar tools and equipment as found in industry from manufacturers such as Amco, Cuda, OTC, Pico, Robinair, and Snap-On.

Students develop industry relevant competencies through their performance of hands-on tasks on late-model vehicles representing a variety of manufacturer's.

Students leave Northern with a wide range of skills including the ability to troubleshoot mechanical failures, diagnose electrical and electronic systems, and perform service procedures with a high level of competence.

NMU's automotive technology program, accredited by the National Automotive Technician's Education Foundation (NATEF), provides prioritized instruction aligned with the demands of industry leaders and employers.

Bottom line – students learn skills employers want!

## Course Work

This degree includes the following courses as part of the program requirements, and specific major requirements along with General Education Courses and graduation requirements.

### Technical Concentration\*:

- AUT100 Automotive Lab/Industry Safety (2 cr.)
- AUT110 Power Train Fundamentals (2 cr.)
- AUT140 Steering and Suspension Fundamentals (2 cr.)
- AUT150 Automotive Brake Fundamentals (2 cr.)
- AUT164 Engine Repair (4 cr.)
- AUT166 Manual Drive Train and Axles (4 cr.)
- AUT170 Electrical/Electronic Systems I (4 cr.)
- AUT230 Heating and Air Conditioning (4 cr.)
- AUT240 Advanced Steering Suspension and Alignment (2 cr.)
- AUT250 Advanced Automotive Brakes (2 cr.)
- AUT260 Automatic Transmission/Transaxle (4 cr.)
- AUT262 Engine Performance I (4 cr.)
- AUT264 Engine Performance II (4 cr.)
- AUT268 Automotive Service Repair (4 cr.) *or*  
AUT291 Auto Service Internship (4 cr.)
- AUT272 Electricity/ Electronics II (4 cr.)

### Other required courses

- EN111 College Composition I (4 cr.)
- MA101 Quantitative Literacy (4 cr.)  
(or higher meeting the GEC requirements)
- Electives from General Education Program (7 cr.)

*\*Students must have a minimum grade of "C" and a grade point average of 2.25 for all technical concentration courses.*

## Career Development

You should begin the resume-building process as soon as you can. The Academic and Career Advisement Center can assist you with career planning, while Career Services will help you fine tune your resume and look for jobs related to your field. In the meantime, the more hands-on experience you have, the better the chances are that you will find a job. Becoming involved in a field-related internship is a way to develop your professional network, enhance your skills and proficiencies, and gain experience. Your academic course work is important as well, so be sure to maintain a high grade point average.

## Additional Considerations

Skills learned in the automotive technology program apply to a variety of career opportunities beyond automotive service. Program graduates have also used their skills to secure employment at prominent companies such as Cliff's Natural Resources, Fabick Heavy Equipment, Ford Motor Company, NAPA Auto Parts, and Rousch Racing.

## Job Outlook

Job placements include specializing in a single area of automotive repair, focusing on the diagnosis and repair of specific automotive carlines, or servicing a wide range of vehicles in most or all areas of repair.

Automotive Service Technicians on average make \$23.07 an hour. The job outlook is projected to remain steady from 2020 to 2030, largely due to the need to replace workers who are exiting the workforce due to retirement or change of occupation.

# Potential Careers

Depending upon student interest, job opportunities in automotive service exist in a wide array of settings including manufacturer specific dealerships, independent repair facilities, specialty service providers, and fleet repair facilities.

- Automotive Service Technician
- Brake Specialist
- Chassis Technician
- Drivability Specialist
- Driveline Technician
- Electrical Diagnostician
- Exhaust Specialist
- HVAC Specialist
- Lube Technician
- Maintenance Technician
- Rebuilder
- Transmission Specialist

## *With Additional Training:*

- Field Engineer
- Parts Supply Specialist
- Service Writer
- Service Manager



Education Foundation

# Additional Resources and Information

For Career Planning and Opportunities:  
Academic & Career Advisement Center  
3302.1 C.B. Hedgcock  
906-227-2971  
[www.nmu.edu/acac](http://www.nmu.edu/acac)

Technology and Occupational Sciences  
101 Jacobetti Complex  
906-227-2190  
[www.nmu.edu/tos](http://www.nmu.edu/tos)

For Job Search, Resume and Career Information:  
Career Services  
3302.3 C. B. Hedgcock  
906-227-2800  
[www.nmu.edu/careers](http://www.nmu.edu/careers)

For Information about NMU Student Organizations Associated with this Major Contact:  
Center for Student Enrichment  
1206 University Center  
906-227-2439  
[www.nmu.edu/cse](http://www.nmu.edu/cse)

Internet Resource Links:  
[www.careers.org](http://www.careers.org)  
[www.bls.gov](http://www.bls.gov)

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit:  
<http://www.nmu.edu/institutionalresearch/disclosure>

For Career Information with National Organizations:  
[www.asashop.org](http://www.asashop.org) -Automotive Service Assoc.  
[www.autoserviceproviders.com](http://www.autoserviceproviders.com) -Alliance of Automotive Service Providers Association



**NORTHERN MICHIGAN  
UNIVERSITY**

The Academic & Career Advisement Center  
2022



What to do with  
a major in...

**Automotive Service  
Technology  
Associate's Degree**

