AUTOMOTIVE TECHNOLOGY



Automotive Technology

Program Overview

In the fast-paced world of automotive technology, today's technicians are required to service and diagnose sophisticated systems. Manchester Community College's Automotive Technology program isn't just about keeping up with the technology, it's about setting the pace. We're constantly fine-tuning and elevating our program to meet ever-changing industry demands.

Explore our offerings! Our expert instructors are nationally recognized, master-certified and bring many years of real-world experience to the classroom. Training includes co-op placement with nationally recognized manufacturers and industry-leading auto companies. With co-op work experience as a required part of the program, you'll advance your skills in the most efficient, hands-on way possible. While in your co-op work experience, you'll be paid and work alongside seasoned technicians who will help guide you to success.

Degree & Certificate Options / Areas of Emphasis

Our curriculum is designed to suit individual interests and aspirations. Degree requirements will be met using specific courses and co-op placement. While earning your degree you'll have four areas of emphasis to choose from. All areas of emphasis will give you time in the classroom (and/or online) and will provide hands-on learning in the automotive lab and at co-op sites.

- **Ford ASSET / Ford MLR (Ford Maintenance & Light Repair):** *Study in collaboration with Ford Motor Company and Ford/Lincoln dealers to earn 100% of Ford factory certifications.*
- **Global Manufacturers -** *Includes Asian and European as well as domestic brands. Study in these programs: Audi Education Partnership (AEP), Mercedes-Benz Campus and/or Subaru's Web-Based "Subaru-University."*
- **Independent Shops -** *Train with top tier local or regional independent repair shops and dealerships. If not an official MCC Automotive partner, we will work with you on training and coop placement for building required skills.*
- **MCAP - (Mopar® Career Automotive Program):** *An MCC training partnership between Dodge, Jeep®, Ram, Chrysler, FIAT®, Alfa Romeo and more, with an option to earn Automotive Service Excellence (ASE) certification.*

Admission Requirements

In addition to the college-wide admissions requirements, the following items are required to apply to either the degree or the certificate programs:

- A valid driver's license and a driving record that meets industry insurability standards (Copy of driving record is required for admission).
- College assessment results that indicate placement into College Composition I with Corequisite or College Composition I (ENGL110XM or ENGL110M) and college mathematics (100 level or higher).
- Attend an Automotive Technology Information Session. Use the QR code in the blue box on the right, or go to this url: mccnh.edu/admissions/information-sessions.

Outcomes

Potential Jobs

Students with an Automotive Technology A.S. degree often find full-time employment with their co-op sponsors and typically work as:

- Business Owner
- Certified Technician
- Line Technician
- Master Technician
- Parts Manager
- Service Advisor
- Service Manager
- Shop Foreman

Transfer Opportunities

Automotive coursework must be completed no more than 10 years prior to acceptance into the MCC program in order for credits to transfer IN. Students earning a degree in this program can expect to transfer OUT to:

- Benjamin Franklin Institute of Technology
- Keene State College
- Southern NH University
- UNH
- ...and many more!

Co-Op Opportunities

To match your interest and specialization, many co-op opportunities are available with recognized dealers and independent shops. More co-op information at mccnh.edu/programs/automotive-technology.

More About MCC Automotive Technology Programs!

INFO SESSIONS

MCC's Auto Tech degree is a state-of-the-art, two-year program combining classroom and practical training with paid, on-the-job, co-op experience. Scan QR code to attend an Automotive Information Session and get your questions answered!

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Automotive Technology Degree

Degree Program - First Year

Fall Semester

Course Code	Title	TH	LAB	CR
AUTO1011M	Maintenance and Light Repair	2	8	4
AUTO1012M	Electrical Systems	3	9	6
AUTO1013M	Automotive Co-op Work Experience I	0	15	2
FYE100M	MCC Essentials	1	0	1
	Foreign Lang./Humanities/Fine Arts Elective	3	0	3
	Sub-Total Credits	**9**	**32**	**16**

Spring Semester

Course Code	Title	TH	LAB	CR
AUTO1021M	Steering and Suspension Systems	3	6	5
AUTO1022M	Electronic Controls	3	6	5
AUTO1033M	Automotive Co-op Work Experience II	0	15	2
	Mathematics Elective (100 level or higher)	3	0	3
	Sub-Total Credits	**9**	**27**	**15**

Summer Semester

Course Code	Title	TH	LAB	CR
AUTO1031M	IC Engine and Systems	2	6	4
AUTO1032M	Brake Systems	2	6	4
AUTO2021M	Automotive Co-op Work Experience III	0	15	2
	Social Science Elective (ANTH, ECON, GEOG, HIST, POLS, PSYC, SOCI)	3	0	3
	Sub-Total Credits	**7**	**27**	**13**

Degree Program - Second Year

Fall Semester

Course Code	Title	TH	LAB	CR
AUTO2021M	Automotive Co-op Work Experience IV	0	15	2
AUTO2011M	Manual Transmissions and Drivetrains	2	6	4
AUTO2013M	Climate Control Systems	2	6	4
ENGL110XM or ENGL110M	College Composition I with Corequisite or College Composition I	4	0	4
	Sub-Total Credits	**8**	**27**	**14**

Fall Semester

Course Code	Title	TH	LAB	CR
AUTO2021M	Automotive Co-op Work Experience V	0	15	2
AUTO2022M	Automatic Transmission and Transaxles	2	8	4
AUTO2023M	Vehicle Performance Diagnosis	2	9	5
	Science Elective	3	0	3
	Sub-Total Credits	**7**	**32**	**14**
	Total Credits			**72**

Technical Standards

It is strongly recommended that students have driving experience with a manual transmission, have strength to lift automotive parts and equipment and perform manual tasks.

All courses and degree requirements are subject to change. For the most current information on MCC programs, go to mccnh.edu/programs.

Automotive Technology Certificate

The Automotive Certificate program combines classroom and practical training and provides you with the skills you'll need to become an entry-level technician. Become familiar with the latest technology, learn how to become an apprentice technician and earn a certificate at the same time! While training you'll gain skills that directly apply to the field of study, prepare you for ASE exams and allow you to work toward full-time employment.

Course Code	Title	TH	LAB	CR
AUTO1011M	Maintenance and Light Repair	2	8	4
AUTO1012M	Electrical Systems	3	9	6
AUTO1021M	Automotive Co-op Work Experience I	3	6	5
AUTO1032M	Brake Systems	2	6	4
	Total Credits			**19**

Automotive Technology Professional Certificate

In the Automotive Technology Professional Certificate program, you'll learn the skills necessary to become a "B" level technician by becoming familiar with the latest technology, earning a professional certificate and working as an apprentice technician. You'll gain skills that prepare you for ASE exams and full-time employment. This certificate combines classroom and practical training with paid on-the-job work experience. AT Professional certificate students must complete two internship courses with a minimum of 560 hours of work at an approved site.

Course Code	Title	TH	LAB	CR
AUTO1011M	Maintenance and Light Repair	2	8	4
AUTO1012M	Electrical Systems	3	9	6
AUTO1013M	Automotive Co-op Work Experience I	0	15	2
AUTO1022M	Electronic Controls	3	6	5
AUTO1023M	Automotive Co-op Work Experience II	0	15	2
AUTO1031M	IC Engine and Systems	2	6	4
AUTO1032M	Brake Systems	2	6	4
AUTO1033M	Automotive Co-op Work Experience III	0	15	2
AUTO2013M	Climate Control Systems	2	6	4
FYE100M	MCC Essentials	1	0	1
ENGL110XM or ENGL110M	College Composition I with Corequisite or College Composition I	4	0	4
	Math Elective (100 level or higher)	3	0	3
	Open Elective	3	0	3
	Foreign Lang./Humanities/Fine Arts Elective	3	0	3
	Total Credits			**47**

Powersports Certificate

Using a balance of classroom instruction in specialized courses, industry-relevant hands-on training, on-the-job experience and online training, the Powersports Certificate program is designed to cultivate highly skilled technicians. With a focus on service, you will be trained from customer concern to problem correction.

Course Code	Title	TH	LAB	CR
PSPT101M	Introduction to Power Sports Basic Maintenance and Repair	2	8	4
PSPT102M	Electrical Systems	3	9	6
PSPT103M	Engine and Drivetrain	2	8	4
PSPT104M	Brake and Suspension Systems	2	8	4
PSPT105M	Fuel Systems	2	8	4
	Total Credits			**22**