

Automotive



Why Automotive?

Today's automotive technicians need high-level skills and knowledge to diagnose and service increasingly complex systems. The evolution from yesterday's mechanic to a skilled technician requires that today's technicians are competent with highly sophisticated systems, as well as with the traditional mechanical areas. Manchester Community College is constantly striving to update and upgrade our program to meet technical, manufacturer and dealer needs.

MCC automotive curriculum is designed to meet the individual student's area of interest by offering **nationally recognized manufacturer pathways, including:**

- **Audi Education Partnership** works with Audi of America and Audi dealers. Students participate in courses that focus on Audi-specific systems, products and training, as well as Audi technician certification. Start by completing your MCC A.A.S. degree and Audi online training, earn status as a maintenance and light repair technician and become eligible for the Audi Academy Fast Track program. Build the foundation to become a Master Guild Audi Technician.
- **Chrysler MCAP** (Mopar Career Automotive Program) is in alliance with Dodge, Jeep, Ram, Chrysler and Fiat group dealers. Students attend specialized curriculum and training that focuses on manufacturer-specific vehicles and systems.
- **Ford ASSET/MLR** in partnership with Ford Motor Company and Ford and Lincoln Dealers, Ford ASSET students earn 100% of Ford certifications. The Ford ASSET program is a paid co-op program allowing students to earn while they learn. At the end of the two years, students earn an associate degree and valuable dealer experience. Ford MLR certificate students earn factory certification in electrical systems, heating and air conditioning, suspension and steering and brakes after completing MCC course requirements and the required Ford technician online training.
- **MB Campus** students will build their skill set to become a Mercedes-Benz registered technician - learning about the latest technology, service and repair, as well as earning a potential internship at a Mercedes-Benz dealership.
- **Nissan/Infiniti** (Nissan Technician Training Academy-NTTA) is designed to help prepare students for a career as a factory-trained technician to work in Nissan and Infiniti dealerships across the country. NTTA is a collaborative partnership between Nissan North America, MCC and Nissan dealerships and Infiniti retailers.
- **Subaru University** students gain valuable knowledge of Subaru vehicle systems that can better prepare them for employment at a Subaru dealer.

Additionally, MCC offers a **Global Pathway** covering Asian, European and domestic makes or brands.

In all automotive pathways, students spend time in the classroom and labs on MCC campus, as well as work full-time at their co-op sites.

Admission Requirements

In addition to college-wide admissions requirements, students must have:

- A valid driver's license and have 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 (ENGL110M) and college mathematics (*100 level or higher*)
- Attend an information session

Potential Jobs

- Certified Technician
- Line Technician
- Performance Tuner
- Import Technician
- Parts Manager
- Service Manager

Potential Salary*

There is a wide range of jobs in the automotive industry. See below for the average annual salary range in NH for an **Auto Mechanic**.

ENTRY LEVEL	MID-RANGE	EXPERIENCED
\$31,761	\$47,154	\$56,888

**New Hampshire Occupational Employment & Wages 2021, published by the NH Economic + Labor Market Information Bureau — Salaries are based on 40 hours of work, not including overtime.*

Transfer Opportunities

Automotive coursework must be completed no more than 10 years prior to acceptance into the program in order for credits to transfer.

- Benjamin Franklin Institute of Technology
- Keene State College
- Southern NH University
- UNH

...and many more!

Co-Op Opportunities

- AutoFair
- Bonneville & Son
- Grappone Auto Group

...and many more!

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.

mccnh.edu

STAY CONNECTED



Degree & Certificate Requirements

Automotive Technology Degree

Degree Program - First Year

First Year	Fall Semester	TH	LAB	CR
AUTO1011M	Maintenance and Light Repair	2	8	4
AUTO1012M	Electrical Systems	3	9	6
FYE100M	MCC Essentials	1	0	1
	Foreign Language/Humanities/Fine Arts Elective	3	0	3
Total		9	17	14

First Year	Spring Semester	TH	LAB	CR
AUTO1021M	Steering and Suspension Systems	3	6	5
AUTO1022M	Electronic Controls	3	6	5
AUTO1023M	Automotive Co-op Work Experience I	0	15	2
	Mathematics Elective (100 level or higher)	3	0	3
Total		9	27	15

First Year	Summer Session	TH	LAB	CR
AUTO1031M	IC Engine and Systems	2	6	4
AUTO1032M	Brake Systems	2	6	4
AUTO1033M	Automotive Co-op Work Experience II	0	15	2
	Liberal Arts and Science Elective (3 or 4 credits)	3	0	3
Total		7	27	13

Degree Program - Second Year

Second Year	Fall Semester	TH	LAB	CR
AUTO2011M	Manual Transmissions and Drivetrains	2	6	4
AUTO2012M	Powertrain Management Systems	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
Total		10	18	16

Second Year	Spring Semester	TH	LAB	CR
AUTO2021M	Automotive Co-op Work Experience III	0	15	2
AUTO2022M	Automatic Transmission and Transaxles	2	8	4
AUTO2023M	Vehicle Performance Diagnosis	2	6	4
	Science Elective	3	0	3
	Social Science Elective	3	0	3
Total		10	29	16
Total Credits - 74				

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.

Automotive Technology Certificate

In the certificate program, students learn the skills necessary for an entry-level technician's position. The program combines classroom and practical hands-on training. Students become familiar with the latest technology and earn a certificate. Students gain skills that directly apply to the field of study, prepare for ASE exams and work toward full-time employment.

		TH	LAB	CR
AUTO1011M	Maintenance and Light Repair	2	8	4
AUTO1012M	Electrical Systems	3	9	6
AUTO1021M	Steering and Suspension Systems	3	6	5
AUTO1032M	Brake Systems	2	6	4
Total Credits - 19				

Automotive Technology Professional Certificate

In the Professional Certificate program, students learn the skills necessary to become "B" level technicians. Students become familiar with the latest technology, earn a professional certificate and work as an apprentice technician. Students gain skills that directly apply to the field of study, prepare for ASE exams and work toward full-time employment. The program combines classroom and practical training with paid on-the-job work experience. All professional certificate students must complete two internship courses with a minimum of 560 hours of work experience at an approved site.

		TH	LAB	CR
AUTO1011M	Maintenance and Light Repair	2	8	4
AUTO1012M	Electrical Systems	3	9	6
AUTO1021M	Steering and Suspension Systems	3	6	5
AUTO1022M	Electronic Controls	3	6	5
AUTO1023M	Automotive Co-op Work Experience I	0	15	2
AUTO1031M	IC Engine and Systems	2	6	4
AUTO1032M	Brake Systems	2	6	4
AUTO1033M	Automotive Co-op Work Experience II	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 or 4 credits)	3	0	3
	Foreign Language/Humanities/Fine Arts Elective	3	0	3
Total Credits - 50				

Power Sports Certificate

		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				

NISSAN INFINITI



Audi Education Partnership



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

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