

# AUTOMOTIVE TECHNOLOGY

## CAREER OPPORTUNITIES

Graduates of the automotive technology program will be qualified as entry level technicians, finding employment opportunities with:

- Automobile dealerships
- Independent garages
- Aftermarket specialty shops
- Other related businesses.



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**HIGH DEMAND FIELD!**

**Questions?**

**Contact:**  
**[admissions@nmcc.edu](mailto:admissions@nmcc.edu)**

## APPLICATION PROCEDURE

**The following procedures constitute the admissions process:**

1. Submit an NMCC application.
2. Submit official high school transcript and/or HiSET/GED scores (current senior's transcript should include completed ranking period grades).
3. Official college transcripts for applicants who have attended other post-secondary schools.
4. If SAT scores are not available, placement testing may be required.
5. Meet with an Admissions Counselor.
6. A campus tour is highly recommended.

## **PROGRAM PURPOSE**

Automotive technology is a two-year program designed to provide broad fundamental training in all aspects of automotive service and repair, applying up-to-date methods and materials for today's technology. In the first semester, students concentrate on the under-car chassis, including wheels and tires, wheel balancing techniques, brakes, front and rear suspension, steering systems, computerized wheel alignment, and automotive electricity.

During the spring semester, first year students concentrate on automotive electronics and electrical systems, including batteries, starting systems, charging systems, ignition systems and vehicle wiring. In the second year, students cover the areas of engine performance diagnostics and repair, including: OBDII computerized engine control, CAN and network communications, high pressure and low-pressure fuel injection systems, emission control systems, and ABS control systems. In the final semester, the courses cover areas of major engine service, automatic/manual transmissions, final drive assemblies and advanced electronics.

***The Automotive Technology program has achieved Master Level certification by the National Institute for Automotive Excellence (ASE).***

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## AUTOMOTIVE TECHNOLOGY

2023-2024

### Associate in Applied Science Degree Program

First Semester			C	L	CR
> AUT	109	Introduction to Automotive Technology	0.5	1.5	1
> AUT	114	Suspension & Steering	1.5	4.5	3
> AUT	115	Automotive Electricity	2	2	3
> AUT	116	Brakes	1.5	4.5	3
COL	103	College Success	1	0	1
ENG	111	English Composition	3	0	3
WEI	103	Welding for Automotive Technicians	2	2	3
			11.5	14.5	17

Second Semester			C	L	CR
> AUT	124	Engine Repair	3	9	6
> AUT	125	Automotive Electronics	2	2	3
AUT	216	Motor Vehicle Inspection	2	0	2
MAT	121	Technical Mathematics	4	0	4
		Humanities Elective	3	0	3
			14	11	18

Third Semester			C	L	CR
> AUT	214	Engine Performance	3	9	6
> AUT	229	Automotive Heating & Air Conditioning	2	2	3
> AUT	231	Innovative Automotive Technologies	2	2	3
> AUT	233	Light Vehicle Diesel Systems	2	2	3
PHY	150	Physics	3	2	4
			12	17	19

Fourth Semester			C	L	CR
> AUT	223	Manual Drive Train & Axels	1.5	4.5	3
> AUT	225	Automatic Transmissions	1.5	4.5	3
> AUT	228	Alternative Propulsion Systems	2	2	3
COM	221	Technical Communications	3	0	3
		Social Science Elective	3	0	3
			11	11	15

Total Required 69

## AUTOMOTIVE TECHNOLOGY

2023-2024

### Certificate Program

First Semester			C	L	CR
> AUT	109	Introduction to Automotive Technology	0.5	1.5	1
> AUT	114	Suspension & Steering	1.5	4.5	3
> AUT	115	Automotive Electricity	2	2	3
> AUT	116	Brakes	1.5	4.5	3
ENG	111	English Composition	3	0	3
WEI	103	Welding for Automotive Technicians	2	2	3
			10.5	14.5	16

Second Semester			C	L	CR
> AUT	124	Engine Repair	3	9	6
> AUT	125	Automotive Electronics	2	2	3
AUT	216	Motor Vehicle Inspection	2	0	2
MAT	121	Technical Mathematics	4	0	4
			11	11	15

Total Required 31



The Automotive Technology program has achieved Master Level certification by the National Institute for Automotive Excellence (ASE) after a thorough evaluation.

\* Note: AUT courses within a semester are scheduled sequentially, not concurrently

> Major courses; a minimum grade of "C" or 2.0 is required  
Key: C= Class Hours, CR= Credit Hours, L= Laboratory

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207-768-2785

Northern Maine Community College | 33 Edgemont Drive | Presque Isle, ME 04769

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2023-2024