



AUTOMOTIVE TECHNOLOGY



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PURPOSE OF PROGRAM

Automotive technology is a two-year program designed to provide broad fundamental training in all aspects of automotive service and repair, employing 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. Seniors in the transportation trades programs have the option to participate in a structured field trip to Detroit, MI in order to experience the history and manufacturing processes of the transportation industry.



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

Receive hands-on instruction on the bumper to bumper mechanical, electrical and computer aspects of a vehicle.

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.

APPLICATION PROCEDURE

The following procedures constitute the admissions process:

1. An application form must be submitted accompanied by a nonrefundable \$20 application fee.
2. An official high school transcript must also be submitted (current seniors' transcripts should include completed ranking periods); HiSET/GED test scores must be submitted by applicants who are not high school graduates.
3. Official college transcripts must be submitted by applicants who have attended other colleges or postsecondary schools.
4. Placement testing or appropriate SAT scores, individual interviews and campus tours are required, in most cases, prior to being admitted.
5. Admissions decisions are made as quickly as possible once a candidate's file is complete.
6. Accepted applicants are required to make a deposit within thirty days of acceptance. Students requesting on-campus housing are required to submit an additional deposit to reserve space in the residential complex.

Learn about hybrid and electric vehicle technology and advances in alternative fuels!

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AUTOMOTIVE TECHNOLOGY

2018-2019 Curriculum

Associate in Applied Science Degree Program

First Semester		C	L	CR
♦ AUT 109	Intro. to Auto Tech	.5	1.5	1
♦ AUT 114	Suspension and 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 Auto Tech	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
MAT 119	Applied Mathematics	4	0	4
SAE 121	Industrial Safety	3	0	3
	Humanities Elective	3	0	3
		15	11	19

Third Semester		C	L	CR
♦ AUT 214	Engine Performance	3	9	6
♦ AUT 229	Auto Heating & Air Cond.	2	2	3
♦ AUT 231	Innovative Auto Technologies	2	2	3
AUT 216	Motor Vehicle Inspection	2	0	2
PHY 150	Physics	3	2	4
		12	15	18

Fourth Semester		C	L	CR
♦ AUT 223	Manual Drive Train and Axles	*1.5	*4.5	3
♦ AUT 225	Automatic Transmissions	*1.5	*4.5	3
♦ AUT 228	Alternative Propulsion Sys	2	2	3
COM 221	Technical Communications	3	0	3
	Social Science Elective	3	0	3
		11	11	15

TOTAL REQUIRED 69

Certificate Program

First Semester		C	L	CR
♦ AUT 109	Intro. to Auto Tech	.5	1.5	1
♦ AUT 114	Suspension and 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 Auto Tech	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
MAT 119	Applied Mathematics	4	0	4
SAE 121	Industrial Safety	3	0	3
		12	11	16

TOTAL REQUIRED 32

♦ Major courses; a minimum grade of "C" or 2.0 required.

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

NMCC is an equal opportunity/affirmative action institution and employer.
For more information, please call 768-2791.

207-768-2785

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