



# DIESEL HYDRAULICS TECHNOLOGY



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## PROGRAM PURPOSE

Diesel hydraulics technology is a two-year program emphasizing the basic principles of mechanics, building on mechanical aptitude and knowledge of the eight areas of medium/heavy truck systems. These areas include preventative maintenance, brakes, diesel engine diagnosis and tune-up, suspension and steering, drive train, electrical/electronics systems and heating ventilation and A/C. In the first semester, students concentrate on preventative maintenance, engine diagnostics and tune up and electricity fundamentals. Coursework in the spring semester includes brakes, suspension and steering and electrical systems. Specialization in diesel hydraulics, hydraulic systems test and repairs, diesel engine rebuilding, electronic controls and heating/air conditioning round out the second year.



The Diesel Hydraulics 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).

**The program recently acquired equipment to educate students in green technology options.**

## CAREER OPPORTUNITIES

Graduates of the diesel hydraulics technology program may find employment as technicians with:

- construction companies
- logging companies
- farm machinery dealers
- heavy equipment dealers
- farm operations
- transportation companies

Capable graduates can advance into management positions.

## APPLICATION PROCEDURE

The following procedures constitute the admissions process:

1. Submit an NMCC application along with a \$20 application fee.
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. Individual interview required.
6. A campus tour is highly recommended.

*Work with real customers including local fleets, farms, and construction companies!*

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

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# DIESEL HYDRAULICS TECHNOLOGY

2020-2021 Curriculum

## Associate in Applied Science Degree Program

<u>First Semester</u>		C	L	CR
♦ AUT 115	Automotive Electricity	2	2	3
COL 103	College Success	1	0	1
♦ DIM 112	Intro to Diesel Hydraulics	3*	9*	3
♦ DIM 114	Engine Diagnosis/Tune-up	3*	9*	3
ENG 111	English Composition	3	0	3
SAE 121	Industrial Safety	3	0	3
		12	11	16
<u>Second Semester</u>		C	L	CR
♦ AUT 125	Automotive Electronics	2	2	3
♦ DIM 122	Heavy Equipment/ Electrical Systems	3*	9*	3
♦ DIM 123	Brake Systems	3*	9*	1.5
♦ DIM 125	Suspension/Steering Sys.	3*	9*	1.5
MAT 119	Applied Mathematics	4	0	4
WEI 101	Intro. to Welding	2	2	3
		11	13	16
<u>Third Semester</u>		C	L	CR
♦ AUT 229	Auto Heating and AC	2	2	3
♦ DIM 211	Hydraulics Technology	3*	9*	3
♦ DIM 213	Diesel Engine Rebuilding	3*	9*	3
PHY 150	Physics	3	2	4
WEI 133	Electric Welding	2	2	3
	Social Science Elective	3	0	3
		13	15	19
<u>Fourth Semester</u>		C	L	CR
AUT 216	Motor Vehicle Inspection	2	0	2
♦ DIM 221	Drive Train Systems	3*	9*	3
♦ DIM 222	Air Conditioning Systems/ Transport Refrigerations	3*	9*	3
COM 221	Technical Communications	3	0	3
	Humanities Elective	3	0	3
	Elective	3	0	3
		14	9	17
<b>TOTAL REQUIRED</b>		<b>68</b>		

## Certificate Program

<u>First Semester</u>		C	L	CR
♦ AUT 115	Automotive Electricity	2	2	3
♦ DIM 112	Intro to Diesel Hydraulics	3*	9*	3
♦ DIM 114	Engine Diagnosis/Tune-up	3*	9*	3
ENG 111	English Composition	3	0	3
SAE 121	Industrial Safety	3	0	3
		11	11	15
<u>Second Semester</u>		C	L	CR
♦ AUT 125	Automotive Electronics	2	2	3
♦ DIM 122	Heavy Equipment/ Electrical Systems	3*	9*	3
♦ DIM 123	Brake Systems	3*	9*	1.5
♦ DIM 125	Suspension/Steering Sys.	3*	9*	1.5
MAT 119	Applied Mathematics	4	0	4
WEI 101	Intro. to Welding	2	2	3
		11	13	16
<b>TOTAL REQUIRED</b>		<b>31</b>		

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

*Key: C= Class Hours, L= Lab Hours, CR= Credit Hours*

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

**Fantastic internships are available with industry leading companies.**

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

**207-768-2785**

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