

Mechanical Engineering Technology

1st Semester

NMC

MTU

Number	Course Name	Cr	Number	Course Name	Cr
ENG 111	English Composition	4	UN 1015 HU 1XXX	Composition HASS Elective	3 1
EGR 101	Intro to Engineering	1	ENG 1XXE	ENG Elective	1
MTH 141	Calculus I	5	MA 1160 MA 1XXX	Calculus I STEM Math Elective	4 1
CHM 150, 150R, 150L	General Chemistry I	5	CH 1150/51/53	University Chemistry I	5
15			15		

2nd Semester

NMC

MTU

Number	Course Name	Cr	Number	Course Name	Cr
MFG 113	Machining I	3	MET 2153 TRU XXXX	Machine Tool Funds. & App Unassigned Transfer	2 1
EGR 221	Material Science	3	MET 1540	Material Science	3
MTH 142	Calculus II	5	MA 2160 MA 1XXX	Calculus II STEM Math Elective	4 1
EGR 113	Engineering Graphics I	3	MET 1020	Tech. Computer App.	3
* GEO 109	World Reg. Geo.	3	UN 1025	Global Issues	3
17			17		

3rd Semester

NMC

MTU

Number	Course Name	Cr	Number	Course Name	Cr
* PSY 101	Intro to Psychology	3	PSY 2000	Intro to Psychology	3
* PHL 101	Intro to Philosophy	3	HU 2700	Intro to Philosophy	3
* HST 101 /111/112	History	4	SS 2502/00/01 SS1XXX	History HASS Elective	3 1
10			10		

4th Semester

NMC

MTU

Number	Course Name	Cr	Number	Course Name	Cr
MTH 131	Intro to Prob & Stats	3	MA 2710	Intro to Statistical Analy	3
PHY 221, 221R, 221L	P&P Physics I	5	PH 2100/1100 TRU XXXX	University Physics I Unassigned Transfer	4 1
# EGR 201	Statics	3	# MET 2120 TRU XXXX	Statics and Strength Unassigned Transfer	2 1
ACC 121	Acct. Principles I	4	ACC 2000 ACC 1XXE	Acct. Principles I ACC Elective	3 1
EGR 232	Introductory Thermo	3	MET 3700	Applied Thermo	3
18			18		

NOTE: Students required to complete MTU EE 1110 (1 credit) before enrolling in EGR 211.

Mechanical Engineering Technology

5th Semester

NMC

MTU

Number	Course Name	Cr	Number	Course Name	Cr
# EGR 202	Mechanics of Mat.	3	# MET 2120	Statics and Strength	2
			TRU XXXX	Unassigned Transfer	1
PHY 222, 222R, 222L	P&P Physics II	5	PH 2200/1200	University Physics II	4
			TRU XXXX	Unassigned Transfer	1
EGR 203	Dynamics	4	MET 2130	Dynamics	3
			TRU XXXX	Unassigned Transfer	1
EGR 211	Electrical Circuits I	3	EET 1411	Basic Electronics	3

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NMC EGR 201 and EGR 202 combined transfers as MTU MET 2120. MET 2120 4 credits and TRU XXXX 2 credits.

* Gen. Ed. required courses – some selected NMC courses may satisfy MTU requirements and Michigan Transfer Agreement. See advisor for Gen. Ed. courses and applicable MTA requirements.

NMC 75 credits transfer to MTU 63 program + 12 credits electives. MTU EE1100 1 credit.

3rd semester is a summer session. Up to 3 additional credits of Physical Education may transfer.

Courses at MTU

Junior year

7th Semester

MET 3500	Manuf. Process	4
MET 3242	Machine Design I	3
MET 3400	App. Fluid Mech.	3
EET 2233	Electrical Machinery	4

8th Semester

MET 2400	Pract. App. in Para.	3
EET 3131	Instrumentation	3
MET 3451	Machine Design II	3
MET 4460	Prod. Desg. and Dev.	2
	Tech. Elective	3

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Senior Year

9th Semester

EC 3400	Economic Decs. Analy	3
MET 4210	App. Quality Techn.	3
MET 4575	Senior Project I	2
MET 4300	App. Heat Transfer	3
HU 3120	Tech. and Prof. Comm.	3
	HASS Gen. Ed. (3000+)	3

10th Semester

MET 4999	Prof. Pract. Seminar	1
MET 4675	Senior Project II	2
MET 4360	Thermal-Fluids Lab	1
	Technical Elective	5
	HASS Gen. Ed.	3
	HASS Gen. Ed. (3000+)	3

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Mechanical Engineering Technology

MTU 61 credits

Program Total: 136 Credits

[Does not include 3 Credits of Physical Education required for Graduation.]

One additional Composition Course (NMC ENG 112) required for MTA completion. Once all MTA requirements are met, the student will receive an Associate Degree from Northwestern Michigan College. Any course not completed at NMC will require completion at MTU, including all prerequisite courses.

All program specific courses require a 2.0 (C) grade for transfer.

Students may require additional courses necessary to meet the minimum Mathematical and English Composition pre-requisites.

NMC and MTU course offerings and / or delivery methods are subject to change.

Students are required to meet with an academic advisor during each semester to maintain continuity with program requirements.