

Civil Engineering

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
EGR 113	Engineering Graphics I	3	ENG 1102	Engrg Modeling & Design	3
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

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2nd Semester
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Number	Course Name	Cr	Number	Course Name	Cr
CIT 110	Programming Design	3	ENG 1101	Engrg Analysis & Prob	3
EGR 131	Elementary Surveying	5	SU 2000 SU 1000 TRU XXXX	Surveying Surveying Eng. Orient. Unassigned Transfer	2 1 2
MTH 142	Calculus II	5	MA 2160 MA 1XXX	Calculus II STEM Math Elective	4 1
* GEO 109	World Reg. Geography	3	UN 1025	Global Issues	3

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3rd Semester
NMC
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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

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4th Semester
NMC
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Number	Course Name	Cr	Number	Course Name	Cr
MTH 241	Calculus III	5	MA 3160 MA 1XXX	Calculus III STEM Math Elective	4 1
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	MEEM 2110	Statics	3
ENV 111	Physical Geology	4	GE 2000 GE 1100	Understanding the Earth Geo. Eng. & Sci. Orient.	3 1

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Civil Engineering

5th Semester

NMC

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Number	Course Name	Cr	Number	Course Name	Cr
MTH 251	Diff. Eq.	4	MA 2320/3520	Diff. Eq. / Linear Alg.	4
PHY 222, 222R, 222L	P&P Physics II	5	PH 2200/1200 TRU XXXX	University Physics II Unassigned Transfer	4 1
EGR 221	Material Science	3	MSE 2100	Material Science	3
EGR 202	Mechanic of Materials	3	MEEM 2150	Mechanic of Materials	3
15			15		

EGR 101 substitutes for CEE 1000

* 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 76 credits transfer to MTU 66 program + 10 credits electives.

3rd semester is summer term.

Up to 3 additional credits of Physical Education may transfer.

Courses at MTU

6th Semester

CEE 3332	Fundamentals of Construction	3
ENG 3200	Thermo / Fluids	4
CEE 3401	Transportation Engineering	3
MA 3710	Statistics	3
CEE 3202	Structural Analysis	3
		16

7th Semester

CEE 3620	Water Resources	4
CEE 3331	Professional Practice	2
CEE 1001	Sustain. and CE Prac.	1
CEE 3810	Soil Mechanics	4
CEE 4213	Structural Concrete	4
		15

Senior Year

8th Semester

EC 3400	Econ. Decision Analysis	3
	Professional Elective	3
	Professional Elective	3
CEE 3101	Civil Eng. Materials	3
	HASS Gen. Ed. (3000+)	3
		15

9th Semester

CEE 4905	Senior Design	3
	Professional Elective	3
CEE 3503	Environmental Engrg.	3
	Professional Elective	3
	HASS Gen. Ed. (3000+)	3
		15

Civil Engineering

MTU 61 credits.

Program Total: 137 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.