Electrical Engineering

MTU

Number	Course Name	Cr	Number	Course Name	Cr
ENG 111	English Composition	4	UN 1015	Composition	3
			HU 1XXX	HASS Elective	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	Calculus I	4
			MA 1XXX	STEM Math Elective	1
* GEO 109	World Reg. Geography	3	UN 1025	Global Issues	3
16					

2nd Semester

1st Semester

C

Number	Course Name	Cr	Number	Course Name	Cr
CIT 110	Programming Design	3	ENG 1101	Engrg Analysis & Prob	3
CHM 150,	General Chemistry I	5	CH 1150/51/53	University Chemistry I	5
150R, 150L					
MTH 142	Calculus II	5	MA 2160	Calculus II	4
			MA 1XXX	STEM Math Elective	1
		13			13

3rd Semester

NMC

NMC

NMC

MTU

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,	History	4	SS 2502/00/01	History	3
111,112			SS1XXX	HASS Elective	1
	MTU online course		EE 1110	Ess. Math for EE	1
10					

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

4th Semester

NMC

Number	Course Name	Cr	Number	Course Name	Cr
MTH 241	Calculus III	5	MA 3160	Calculus III	4
			MA 1XXX	STEM Math Elective	1
PHY 221,	P&P Physics I	5	PH 2100/1100	University Physics I	4
221R, 221L			TRU XXXX	Unassigned Transfer	1
EGR 211	Elect. Circuits I	3	EE 2111	Electric Circuits I	3
		13			13

5th Semester

NMC

MTU

MTU

Number	Course Name	Cr	Number	Course Name	Cr
MTH 251	Diff. Eq.	4	MA 2320/3520	Diff. Eq. / Linear Alg.	4
PHY 222,	P&P Physics II	5	PH 2200/1200	University Physics II	4
222R, 222L			TRU XXXX	Unassigned Transfer	1
EGR 221	Material Science	3	MSE 2100	Material Science	3
		12			12

Electrical Engineering

MTU ECE Department approval granted to substitute EGR101/ENG1XXE for EE1111 (7/24/2019).

* 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 64 credits transfer to MTU 57 program + 7 credits electives.

MTU 1 credit (EE 1110) prior to transfer.

3rd and 6th semesters are summer sessions. Up to 3 additional credits of Physical Education may transfer.

		Courses	at MTU		
6 th Semester	(Summer Track A)				
EE 3120	Electric Energy Systems	3			
EE 2112	Electric Circuits II	4			
		7			
Junior year					
7 th Semester	(Fall)		8 th Semester	(Spring)	
CS 1111	Intro. C / C++	3	EE 2174	Digital Logic & Lab	4
EE 3131	Electronics and Lab	4	EE 3901	Design Fundamentals	2
EE 3160	Signals & Systems	3	EE 3180	Intro. Prob. & Ran. Sig.	3
EE 3140	Electromagnetics	3	EE 3261	Control Systems	3
	HASS Elective	1		EE Elective	3
		14			15
Senior Year					
9 th Semester	(Fall)		10 th Semester	r (Spring)	
EE 4901	EE Design 1	2	EE 4910	EE Design 2	2
EE 4250	Modern. Comm. Systems	3		EE Elective	3
EE 3171	Microcontroller Appl.	4		EE Elective	3
	EE Elective	3		EE Elective	3
	HASS Gen. Ed. (3000+)	3		HAAS Gen. Ed. (3000+)	3
		15			14

MTU 66 credits.

Program Total: 130 Credits

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

One additional Composition Course 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.