

## Biomedical Engineering

### 1<sup>st</sup> 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					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
BIO 227, 227L	Human A&P I	4	BL2010/2011	Anatomy/Physiology I	4

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17

### 2<sup>nd</sup> Semester

### NMC

### MTU

Number	Course Name	Cr	Number	Course Name	Cr
CIT 110	Programming Design	3	ENG 1101	Engrg Analysis & Prob	3
CHM 150, 150R, 150L	General Chemistry I	5	CH 1150/51/53	University Chemistry I	5
MTH 142	Calculus II	5	MA 2160 MA 1XXX	Calculus II STEM Math Elective	4 1
BIO 228, 228L			BL2020/2021	Anatomy/Physiology II	4

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### 3<sup>rd</sup> Semester

### NMC

### MTU

Number	Course Name	Cr	Number	Course Name	Cr
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## Biomedical Engineering

**5<sup>th</sup> Semester**

**NMC**

**MTU**

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	BE 2800	Biomaterials I	3
CHM 151, 151R, 151L	General Chemistry II	5	CH 1160/61/63	University Chemistry II	5
17			17		

\* General Education required courses - some selected NMC courses may satisfy MTU Gen. Ed. requirements and Michigan Transfer Agreement. See an advisor for Gen. Ed. courses and applicable MTA requirements.

NMC 77 credits transfer to MTU 69 program + 8 credits electives.

3<sup>rd</sup> semester is summer term.

Up to 3 additional credits of Physical Education may transfer.

### Courses at MTU

**Junior year**

**6<sup>th</sup> Semester**

**7<sup>th</sup> Semester**

**BE 2700      Signals and Systems**

## Biomedical Engineering

MTU 58 credits.

**Program Total: 135 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.**