$1{ }^{\text {st }}$ Semester
NMC
MTU

| Number | Course Name | Cr | Number | Course Name | Cr |
| :--- | :--- | :---: | :--- | :--- | :---: |
| ENG 111 | English Composition | 4 | UN 1015 <br> HU 1XXX | Composition <br> HASS Elective | 3 |
| 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 <br> STEM Math Elective | 4 |
| MA 1XXX | 1 |  |  |  |  |
| BIO 227, <br> 227L | Human A\&P I | 4 | BL2010/2011 | Anatomy/Physiology I | 4 |

$2^{\text {nd }}$ Semester
NMC
MTU

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

$3^{\text {rd }}$ 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 | History | 4 | SS 2502 | History | 3 |
| /111/112 |  | /00/01 <br> SS1XXX | HASS Elective | 1 |  |
| 10 |  |  |  | 10 |  |


| $4^{\text {th }}$ Semester | NMC |  | MTU |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Course Name | Cr | Number | Course Name | Cr |
| MTH 241 | Calculus III | 5 | $\begin{aligned} & \text { MA } 3160 \\ & \text { MA 1XXX } \end{aligned}$ | Calculus III STEM Math Elective | 4 1 |
| $\begin{aligned} & \text { PHY 221, } \\ & \text { 221R, 221L } \end{aligned}$ | P\&P Physics I | 5 | PH 2100/1100 TRU XXXX | University Physics I Unassigned Transfer | $\begin{aligned} & \hline 4 \\ & 1 \\ & \hline \end{aligned}$ |
| EGR 201 | Statics | 3 | BE 3300 | Biomechanics I | 3 |
| * GEO 109 | World Reg. Geography | 3 | UN 1025 | Global Issues | 3 |
|  |  | 16 |  |  | 16 |


| $5^{\text {th }}$ Semester $\quad$ NMC |  |  |  | MTU |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Course Name | Cr | Number | Course Name | Cr |
| MTH 251 | Diff. Eq. | 4 | MA 2320/3520 | Diff. Eq. / Linear Alg. | 4 |
| $\begin{aligned} & \hline \text { PHY 222, } \\ & \text { 222R, 222L } \\ & \hline \end{aligned}$ | P\&P Physics II | 5 | $\begin{aligned} & \text { PH 2200/1200 } \\ & \text { TRU XXXX } \end{aligned}$ | University Physics II Unassigned Transfer | $\begin{aligned} & 4 \\ & 1 \end{aligned}$ |
| EGR 221 | Material Science | 3 | BE 2800 | Biomaterials I | 3 |
| $\begin{aligned} & \text { CHM 151, } \\ & \text { 151R, 151L } \\ & \hline \end{aligned}$ | 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.
$3^{\text {rd }}$ semester is summer term.
Up to 3 additional credits of Physical Education may transfer.

## Courses at MTU

## Junior year

$6^{\text {th }}$ Semester

| BE 2700 | Signals and Systems | 3 |
| :--- | :--- | :--- |
| EE 3010 | Circuits \& Instrumentation | 3 |
| BE 2400 | Cell \& Molecular Biology | 3 |
| BE 3400 | Lab Techniques | 2 |
| BE 3800 | Biomaterials II | $\mathbf{3}$ |

## Senior Year

$8^{\text {th }}$ Semester
BE 4901
Design Project I
Technical Elective I
Technical Elective II 3
Science Elective 3
HASS Gen. Ed. (3000+)

14

## $7^{\text {th }}$ Semester

3

3
3

2
3
$9^{\text {th }}$ Semester
2 BE 4910 Design Project II 2
Technical Elective III 3
Technical Elective IV 3
HASS Elective 3
HASS Gen. Ed. (3000+) 3

MTU 58 credits.
Program Total: $\mathbf{1 3 5}$ 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.

