| Major Requirements: 98-105 Credits |  |  |
| :--- | :---: | :---: |
| Course Number | Credits | Course Status Code <br> M, R, P, WVD, SUB* |
| Major Requirements: 37-39 Credits |  |  |
| CH 1150 | 3 |  |
| CH 1151 | 1 |  |
| EE 3010 | 3 |  |
| ENG 1101 or <br> ENG 1001 and <br> ENG 1100 | $3 / 4$ |  |
| ENG 1102 | 3 |  |
| MA 1160 or MA 1161 | $4 / 5$ |  |
| MA 2160 | 4 |  |
| MA 2320 or MA 2321 | $2 / 2$ |  |
| MA 3160 | 4 |  |
| MA 3710 or CE 3710 | 3 |  |
| PH 1100 | 1 |  |
| PH 2100 | 3 |  |
| Multidisciplinary Senior Design Project: 3 Credits |  |  |
| ENG 4905 | 3 |  |

## BSE PATHWAY OPTIONS: See Pages 2-4

Students must choose one of the following options: Geospatial, Mining, Systems, or Faculty Defined

| Free Electives: 6 credits |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |


| $\quad$ Additional Information: check all that apply |  |
| :--- | :--- |
| Currently Enrolled in: |  |
| $\square$ | Certificate Program |
| $\square$ | Double Major |
| $\square$ | Minor___ |
| $\square$ | Additional Degree |

[^0]| General Education: 24 Credits |  |  |  |
| :---: | :---: | :---: | :---: |
| Course Number | Credits | Course Status Code <br> M, R, P, WVD, SUB* |  |

Courses used to complete General Education may not be used to complete other degree requirements.

| Core: 12 credits |  |  |
| :--- | :---: | :---: |
| UN 1015 | 3 |  |
| UN 1025 or upper level <br> modern language | 3 |  |
| Critical and Creative <br> Thinking | 3 |  |
| Social Responsibility and <br> Ethical Reasoning | 3 |  |

$\checkmark$ Each course can satisfy only one requirement
$\checkmark$ No more than three credits may come from the Restricted List
$\checkmark$ Six credits must be at the 3000- or 4000- level (an upper level language course in place of UN1025 does not meet this

| Humanities, Fine Arts/Social \& Behavioral Sciences <br> (HASS): $\mathbf{1 2}$ credits |  |  |
| :--- | :---: | :---: |
| Communication/ <br> Composition |  |  |
| 3 |  |  |$|$

## Co-curricular Activities

Required for graduation, but not included in the GAP calculation or in the overall credits required for the degree.

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|  | .5 |  |
|  | .5 |  |
|  | .5 |  |
|  | .5 |  |
|  | .5 |  |




## FACULTY DEFINED EMPHASIS: 61 Credits

A coherent plan of study that is approved by the Academic Advisor for the Bachelor of Science in Engineering program, Department Chair of Engineering Fundamentals, and Academic Dean for the College of Engineering.

## Required Core Courses

| EC 3400 | 3 |  |
| :--- | :--- | :--- |
| ENG 3830 | 1 |  |

Core Modifications - Select One Course

| CEE 3101 | 3 |  |
| :--- | :---: | :--- |
| CS 1121 | 3 |  |
| GE 2310 | 3 |  |
| MY 2100 | 3 |  |

Select - Minimum 4 credits

| ENG 2120 or | 4 |  |
| :--- | :---: | :--- |
| (MEEM 2110 and <br> MEEM 2150) | 3 |  |
|  | 3 |  |

Select - Minimum 4 credits

| ENG 3200 or <br> (MEEM 2200 or <br> MEEM 2201) and <br> (MEEM 3201 or <br> MEEM 3210) | 4 |  |
| :--- | :---: | :--- |
|  | 3 |  |
|  | 3 |  |
| Design Implementation - Select One Course |  |  |
| CEE 3332 | 4 |  |
| GE 2020 | 3 |  |
| MEEM 3600 | 4 |  |
| SSE 3730 | 3 |  |

Technical Emphasis: 22-23 credits
Select 22 to 23 engineering credits in a coherent plan of study that is approved by the Academic Advisor for the Bachelor of Science in Engineering program, Department Chair of Engineering Fundamentals and Academic Dean for the College of Engineering.

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## FACULTY DEFINED EMPHASIS, CONT.

## Directed Electives: 13 Credits

Select 13 credits in a choerent plan of study such as partial fulfillment of a university approved minor, or a self-defined program with the advice of Michigan Tech faculty.

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Faculty Defined Mathematics and/or Science Electives: 7 credits

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| Advisor Use Only |  |
| :--- | :---: |
| Total Credits Required | $128-131$ |
| Total Credits Completed |  |
| Total Credits Needed |  |


[^0]:    *M-Passed with valid grade, transfer, or Advance Placement credit; Registered in course; Plan to take in future, WVD-Waived course or credit (does not reduce total degree credits required), SUB-Petitioned as

