Michigan Technological University
Registrar's Office
Academic Year 2021-22
Bachelor of Science in Civil Engineering (ECEUG) Department of Civil, Environmental, and Geospatial Engineering

Student Name and ID Number
Estimated Graduation Date

| Major Requirements: 66-68 Credits |  |  |
| :---: | :---: | :---: |
| Course Number | Credits | Course Status Code M, R, P, WVD, SUB* |
| Core Requirements (32 Credits) |  |  |
| CEE 1000 | 1 |  |
| CEE 1001 | 1 |  |
| CEE 3101 | 3 |  |
| CEE 3331 | 2 |  |
| CEE 3810 | 4 |  |
| EC 3400 | 3 |  |
| ENG1101 or ENG1001 \& ENG1100 | 3/4 |  |
| ENG 1102 | 3 |  |
| ENG 3200 | 4 |  |
| MEEM 2110 | 3 |  |
| MEEM 2150 | 3 |  |
| SU 2000 | 2 |  |
| Math and Science (34 Credits) |  |  |
| CH 1150 | 3 |  |
| CH 1151 | 1 |  |
| CEE 3710 or MA 3710 | 3 |  |
| GE 2000 | 3 |  |
| MA 1121 or MA 1160 or MA 1161 | 4/5 |  |
| MA 2160 | 4 |  |
| MA 2320 or MA 2321 | 2 |  |
| MA 3160 | 4 |  |
| MA 3520 or MA 3521 | 2 |  |
| PH 1100 | 1 |  |
| PH 1200 | 1 |  |
| PH 2100 | 3 |  |
| PH 2200 | 3 |  |
| Credit Subtotal |  |  |

*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 substitute course.

## Electives: 12 Credits

| Course Number | Credits | Course Status Code <br> M, R, P, WVD, SUB* |
| :---: | :---: | :---: |

## Senior Design (6 Credits)

| CEE 4900 | 3 |  |  |
| :--- | :---: | :---: | :---: |
| CEE 4910 | 3 |  |  |
| or |  |  |  |
| CEE4905 | 3 |  |  |
| Professional Elective | 3 |  |  |
| or |  |  |  |
| CEE 4915 | 3 |  |  |
| CEE 4916 | 3 |  |  |
|  |  |  |  |
|  |  |  |  |
| Professional Electives (3 Credits) |  |  |  |
|  |  |  |  |
|  |  |  |  |

Engineering Science Electives (3 Credits)

| BE 2700 | 3 |  |
| :--- | :---: | :--- |
| CM 2110 | 3 |  |
| CM 2200 | 3 |  |
| EE 3010 | 3 |  |
| MSE 2100 | 3 |  |
| MEEM 2201 | 3 |  |
| MEEM 2700 | 3 |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Credit Subtotal |  |  |

## Choose a Pathway with your Academic Advisor

The options on page two represent 24-27 of the required credits for your degree. In consultation with your advisor you will choose one of four options:

General: 26 credits
Water Resources: 25 credits
Transportation: 24 to 25 credits
Built Infrastructure: 26 to 27 credits

Option Requirements: 24-27 Credits
Course Number
Credits Course Status Code M, R, P, WVD, SUB*

Option 1: General (26 Credits)

## Required CEE Core Courses ( 16 credits)

| CEE 3202 | 3 |
| :--- | :---: |
| CEE 3332 | 3 |
| CEE 3401 | 3 |
| CEE 3503 | 3 |
| CEE 3620 | 4 |
| Required Design Courses (4 credits) |  |
| CEE 4213 | 4 |
| CEE 4223 | 4 |

Professional Electives (6 credits)


Option 2: Water Resources (25 Credits)

| Required CEE Core Corses (7 credits) |  |
| :--- | :---: |
| CEE 3503 | 3 |
| CEE 3620 | 4 |

Select 1 course from the following ( 3 credits)

| CEE 3202 | 3 |
| :--- | :---: |
| CEE 3332 | 3 |
| CEE 3401 | 3 |
|  |  |
| Required Design Course (3 credits) |  |
| CEE 4620 | 3 |
| CEE 4640 | 3 |
| CEE 4665 | 3 |

Water Resources Electives (12 credits)

| CEE 4502 | 3 |  |
| :--- | :---: | :--- |
| CEE 4503 | 3 |  |
| CEE 4505 | 3 |  |
| CEE 4507 | 3 |  |
| CEE 4610 | 3 |  |
| CEE 4620 | 3 |  |
| CEE 4640 | 3 |  |
| CEE 4650 | 3 |  |
| CEE 4665 | 3 |  |
| CEE 5620 | 3 |  |
| CEE 5666 | 3 |  |
| GE 3850 | 3 |  |
| GE 4800 | 3 |  |


| Credit Subtotal |  |
| ---: | ---: |
| General |  |
| Water Resources |  |
| Transportation |  |
| Built Infrastructure |  |

Option Requirements: 24-27 Credits


Option 3: Transportation (24-26 Credits)
Required CEE Core Courses ( 6 credits)

| Required CEE Core Courses (6 credits) |  |  |
| :--- | :---: | :--- |
| CEE 3332 | 3 |  |
| CEE 3401 | 3 |  |
| Select 1 course from the following (3 - 4 credits) |  |  |
| CEE 3202 | 3 |  |
| CEE 3503 | 3 |  |
| CEE 3620 | 4 |  |
| Required Design Course (3-4 credits) |  |  |
| CEE 4401 | 3 |  |
| CEE 4407 | 4 |  |
| Transportation Electives (12 credits) |  |  |
| CEE 4020 | 3 |  |
| CEE 4101 | 3 |  |
| CEE 4333 | 3 |  |
| CEE 4344 | 3 |  |
| CEE 4401 | 3 |  |
| CEE 4402 | 3 |  |
| CEE 4404 | 3 |  |
| CEE 4406 | 3 |  |
| CEE 4407 | 4 |  |
| CEE 4410 | 3 |  |
| CEE 4760 | 3 |  |

Option 4: Built Infrastructure (26-27 Credits)

| Required CEE Core Courses (10 credits) |  |  |
| :--- | :---: | :--- |
| CEE 3202 | 3 |  |
| CEE 3332 | 3 |  |
| CEE 3620 | 4 |  |
| Required Design Course (4 credits) |  |  |
| CEE 4213 | 4 |  |
| CEE 4223 | 4 |  |
| Built Infrastructure Electives (12 - 14 credits) |  |  |
| CEE 4020 | 3 |  |
| CEE 4201 | 3 |  |
| CEE 4213 | 4 |  |
| CEE 4223 | 4 |  |
| CEE 4233 | 3 |  |
| CEE 4244 | 3 |  |
| CEE 4333 | 3 |  |
| CEE 4344 or CMG 4120 | 3 |  |
| CEE 4820 | 3 |  |
| CEE 4830 | 3 |  |
| CEE 4850 | 3 |  |
| CEE 5212 | 3 |  |
| CEE 5213 | 3 |  |

General Education Requirements: 24 Credits
Course Number Credits Course Status Code 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 |  |
|  | 3 |  |
| Critical and Creative <br> Thinking | 3 |  |
|  <br> Ethical Reasoning |  |  |


| HASS: 12 Credits |  |
| :--- | :--- | :--- |
| $\checkmark$ Students must complete 12 credits of HASS course work |  |
| $\checkmark$ Six of the 12 credits must be at the 3000- or 4000- level* |  |
| $\checkmark$ At least three credits each in the following: Communication/Comp, |  |
| Humanities and Fine Arts, and Social \& Behavioral Sciences. |  |
| $\checkmark$ No more than three credits may come from the Restricted List |  |

[^0]Free Electives: 0-5 Credits

| Course Number | Credits | Course Status Code <br> M, R, P, WVD, SUB* |  |
| :---: | :--- | :--- | :---: |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Credit Subtotal |  |  |  |

## Co-Curricular Activities: 3 Credits

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

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


| Additional Information |
| :---: |
| (check all that apply) |
| Currently Enrolled in: |
| - Double Major |
| $\square$ Minor |
| $\square$ Second Degree |


[^0]:    *an upper division language course in place of UN1025 does not meet this requirement.

