F INDICATES COURSE IS OFFERED FALL SEMESTER

S INDICATES COURSE IS OFFERED SPRING SEMESTER

Su INDICATES COURSE IS OFFERED SUMMER SEMESTER

(L) INDICATES A COURSE WHICH INCLUDES A LAB MUST BE SCHEDULED IN ADDITION TO THE LECTURE

(C) INDICATES THE COURSE CAN EITHER BE TAKEN AT THE SAME TIME (CO-REQ) OR TAKEN PRIOR TO THE COURSE (PRE-REQ)

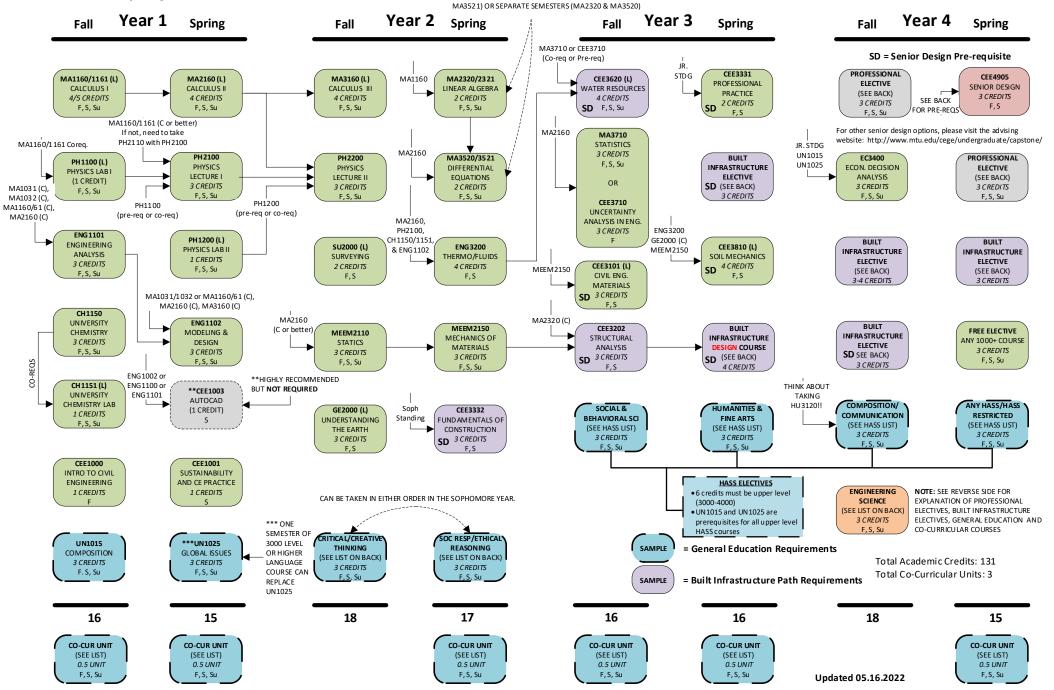
CIVIL ENGINEERING FLOWCHART Built Infrastructure Path Academic Year 2022-23

This is not an official list of degree requirements.

Adjustments may be required due to curriculum changes.

Michigan Tech

NOTE: LINEAR ALGEBRA & DIFFERENTIAL EQUATIONS CAN
BE TAKEN DURING THE SAME SEMESTER (MA2321 &



Built Infrastructure Requirements

BUILT INFR	ASTRUCTURE	DESIGN COUR	SE (select 1)
	_		

CEE4213	STRUCTURAL CONCRETE DESIGN	Spring	4 cr.
CEE4223	STEEL DESIGN 1	Fall	4 cr.

BUILT INFRASTRUCTURE ELECTIVES (select 4)				
	CEE4020	DIGITAL PROJECT DELIVERY	Fall	3 cr.
	CEE4201	MATRIX STRUCTURAL ANALYSIS	Fall	3 cr.
	CEE4213	STRUCTURAL CONCRETE DESIGN	Spring	4 cr.
	CEE4223	STEEL DESIGN 1	Fall	4 cr.
	CEE4233	STRUCTURAL TIMBER DESIGN	Spring	3 cr.
	CEE4244	LOADS FOR CIVIL STRUCTURES	Spring	3 cr.
	CEE4333	ESTIMATING, PLANNING, CONST.	Spring	3 cr.
	CEE4344	CONSTRUCTION SCHEDULING	Spring	3 cr.
	CEE4820	FOUNDATION ENGINEERING	Fall	3 cr.
	CEE4830	GEOSYNTHETICS	Spring	3 cr.
	CEE4850	ROCK ENGINEERING	Spring	3 cr.
	CEE5212	PRESTRESSED CONCRETE DESIGN	Fall	3 cr.

Senior Design (SD) Pre-regs

(complete 7 of the following)

CEE3101, CEE3331, CEE3332, CEE3202, CEE3620, CEE3810, BUILT INFRASTRUCTURE DESIGN COURSE, & 2 BUILT INFRASTRUCTURE **ELECTIVES**

Engineering Science Elective

(select 1)

BE2700 **BIOMEDICAL SIGNALS & SYSTEMS** CM2110 MATERIAL AND ENERGY BALANCES CM2200 **INTRO TO MINERALS & MATERIALS** FF3010 CIRCUITS AND INSTRUMENTATION MSF2100 INTRO TO MATERIALS SCI & FNGRG MEEM2201 INTRODUCTORY THERMODYNAMICS MEEM2700 **DYNAMICS**

UNDERGRADUATE CATALOG (COURSE DESCRIPTIONS):

CONCRETE/MASONRY BLDG SYS

https://www.mtu.edu/catalog/courses/

CEE5213

GENERAL EDUCATION (CO-CURRICULAR & HASS LIST):

https://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/

PROFESSIONAL ELECTIVES

3 cr.

UNDERGRADUATE CATALOG: https://www.mtu.edu/catalog/courses/

- Any 1000 or higher level course in Computer Science, Fine Arts or Forestry. (CS, ART, FW, MUS, SND, THEA)
- Any 2000 or higher level course in Biological Sciences, Chemistry, Construction Management, Geology, Physics or Geospatial Engineering. (BL, CH, CMG, GE, PH, SU)
- Any 2000 or higher level course in Business or Economics (ACC, BUS, EC, FIN, MGT, MIS, MKT, OSM).

Fall

- Any 3000 or higher level course in Mathematics, Humanities, Psychology, Social Sciences or University Wide (MA, HU, PSY, SS, UN).
- Any 3000 or higher level course in Civil and Environmental Engineering (CEE) or any other Engineering Dept.

NOTE: OTHER COURSES MAY BE USED TO SATISFY THE PROFESSIONAL ELECTIVES REQUIREMENT IF APPROVED BY THE DEPARTMENT OF CIVIL, ENVIRONMENTAL, AND GEOSPATIAL ENGINEERING ACADEMIC ADVISOR.

GENERAL EDUCATION REQUIREMENTS

- A. CORE COURSES (12 CREDITS)
- 1. UN1015 (COMPOSITION)
- 2. UN1025 (GLOBAL ISSUES) or 3000+ level Modern Language Course
- 3. CRITICAL AND CREATIVE THINKING

ART1000, HU2130, HU2324, HU2501, HU2503, HU2538, HU2700, HU2820, HU2910, MUS1000, SND 1000, SS2300, THEA 1000

4. SOCIAL RESP. & ETHICAL REASONING

EC2001, PSY2000, SS2100, SS2200, SS2400, SS2500, SS2501, SS2502, SS2503, SS2504, SS2505, SS2600, SS2610, SS2700

- B. HASS COURSES (12 CREDITS) (General Ed Website, left)
- 1. COMM/COMP:

2. HUMANITIES/FINE ARTS:

3. SOCIAL & BEHAVIORAL SCIENCES:

4. ANY HASS OR HASS RESTRICTED COURSE:

- 6 credits must be upper division 3000-4000 level courses
- No more than 3 credits from the HASS Restricted list can be used to satisfy HASS requirements.
- Each course can satisfy only one requirement.

C. CO-CURRICULAR ACTIVITIES (3 UNITS)

(General	Ed We	bsite,	left)		
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