S INDICATES COURSE IS OFFERED SPRING SEMESTER

SIL INDICATES COLIRSE IS DEFERED. 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)

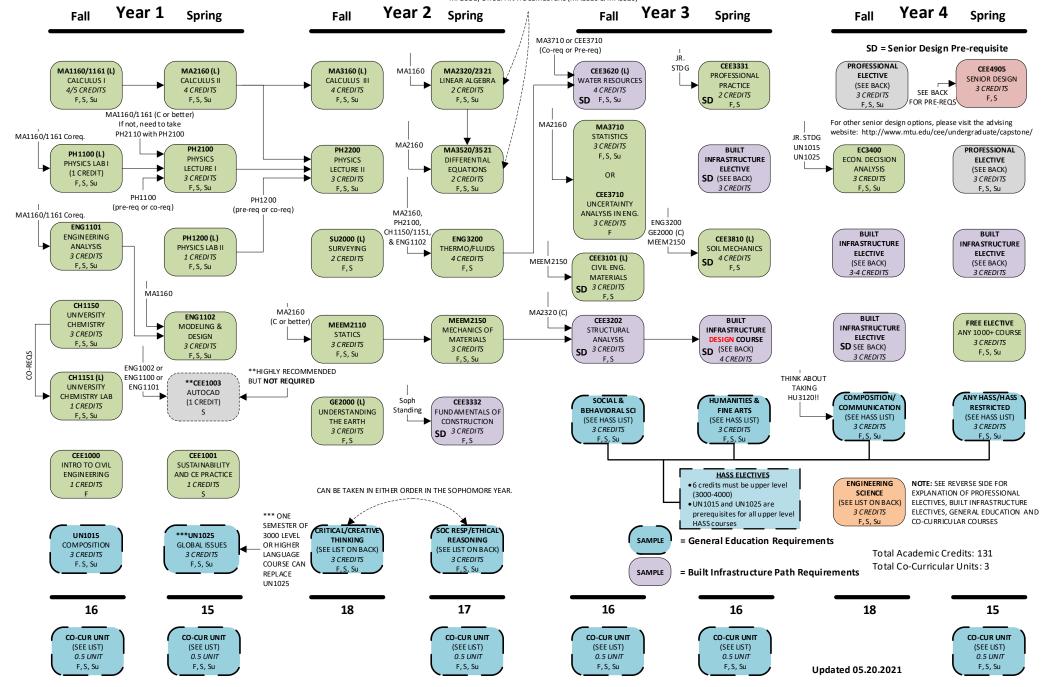
CIVIL ENGINEERING FLOWCHART **Built Infrastructure Path** Academic Year 2021-22

This is not an official list of degree requirements.

Michigan Tech

Adjustments may be required due to curriculum changes.

NOTE: LINEAR ALGEBRA & DIFFERENTIAL EQUATIONS CAN BE TAKEN DURING THE SAME SEMESTER (MA2321 & MA3521) OR SEPARATE SEMESTERS (MA2320 & MA3520)



Built Infrastructure Requirements

BUILT INFR	ASTRUCTURE	DESIGN COURSE	(select 1)
CEE 4242	CTDLICTLIDAL	CONCRETE DECIC	'NI C

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.	
CEE5213	CONCRETE/MASONRY BLDG SYS	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):

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

GENERAL EDUCATION (CO-CURRICULAR & HASS LIST):

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

PROFESSIONAL ELECTIVES

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).
- 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 AND ENVIRONMENTAL 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	COCIAI	0.	DELLAVAODAT	CCIENICEC.

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 Website, left)

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1	4
2	5