

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

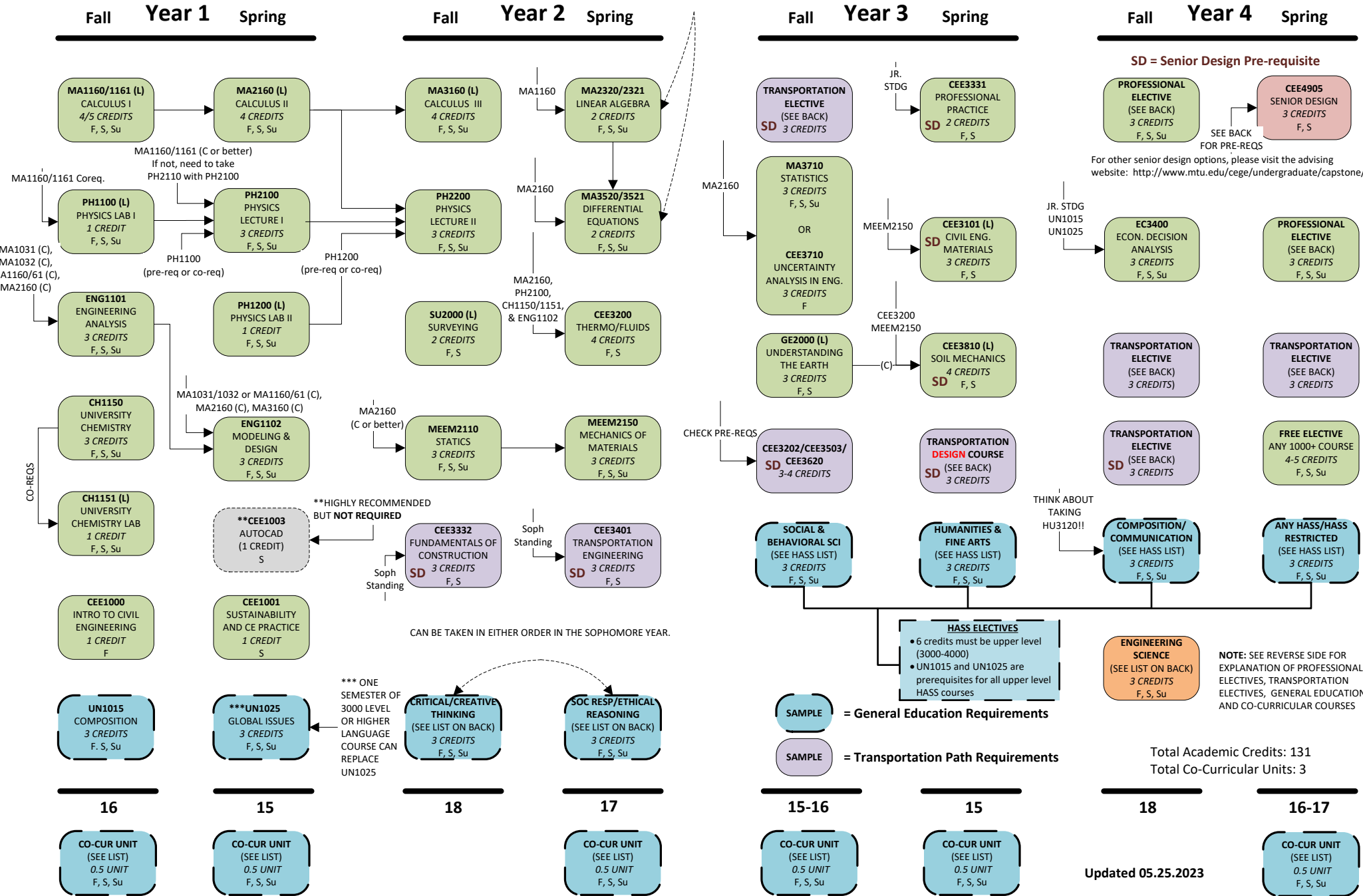


Michigan Tech

This is not an official list of degree requirements.
Adjustments may be required due to curriculum changes.

Transportation Path Academic Year 2023-24

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



TRANSPORTATION REQUIREMENTS

Choose 1 course from the following

CEE3202	STRUCTURAL ANALYSIS	F, Sp	3 cr.
CEE3503	ENVIRONMENTAL ENG.	Sp	3 cr.
CEE3620	WATER RESOURCES ENG	F, Sp, Su	4 cr.

TRANSPORTATION DESIGN COURSE (Select 1)

CEE4401	PAVEMENT DESIGN	Fall	3 cr.
CEE4407	TRANSPORTATION DESIGN	Spring	3 cr.

TRANSPORTATION ELECTIVES (select 4)

CEE4020	DIGITAL PROJECT DELIVERY	Fall	3 cr.
CEE4101	BITUMINOUS MATERIALS	Fall	3 cr.
CEE4333	ESTIMATING, PLAN., CONST	Fall	3 cr.
CEE4344	CONSTRUCTION SCHEDULING	Spring	3 cr.
CEE4401	PAVEMENT DESIGN	Fall	3 cr.
CEE4402	TRAFFIC ENGINEERING	Fall	3 cr.
CEE4404	RAILROAD ENGINEERING	Fall	3 cr.
CEE4406	AIRPORT PLANNING	Spring	3 cr.
CEE4407	TRANSPORTATION DESIGN	Spring	3 cr.
CEE4410	TRANSPORTATION PLANNING	Fall	3 cr.
CEE4760	OPT. METHODS IN CEE	Spring	3 cr.
CEE5190	SPECIAL TOPICS	Varies	3 cr.
CEE5402	TRAFFIC FLOW THEORY	Spring (alt)	3 cr.

SENIOR DESIGN (SD) PRE-REQS

(complete 7 of the following)

CEE3101, (CEE3202 or CEE3503 or CEE3620),
CEE3331, CEE3332, CEE3401, CEE3810
TRANSPORTATION DESIGN COURSE, & 2
TRANSPORTATION ELECTIVES

ENGINEERING SCIENCE ELECTIVE

(select 1)

BE2700	BIOMEDICAL SIGNALS & SYSTEMS
CM2110	MATERIAL AND ENERGY BALANCES
CM2200	INTRO TO MINERALS & MATERIALS
EE3010	CIRCUITS AND INSTRUMENTATION
MSE2100	INTRO TO MATERIALS SCI & ENGRG
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, ENVIRONMENTAL, AND GEOSPATIAL ENGINEERING ACADEMIC ADVISOR.

GENERAL EDUCATION REQUIREMENTS

A. CORE COURSES (12 CREDITS)

- UN1015** (COMPOSITION)
- UN1025** (GLOBAL ISSUES) or 3000+ level Modern Language Course
- CRITICAL AND CREATIVE THINKING**
ART1000, HU2130, HU2324, HU2501, HU2503, HU2538, HU2700, HU2701, HU2820, HU2910, MUS1000, SND1000, SS2300, THEA1000
- 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)

- COMM/COMP:
-

- HUMANITIES/FINE ARTS:
-

- SOCIAL & BEHAVIORAL SCIENCES:
-

- 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)

- _____
- _____
- _____
- _____
- _____
- _____