

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

SAMPLE

= General Education Requirement

# ENVIRONMENTAL ENGINEERING FLOWCHART

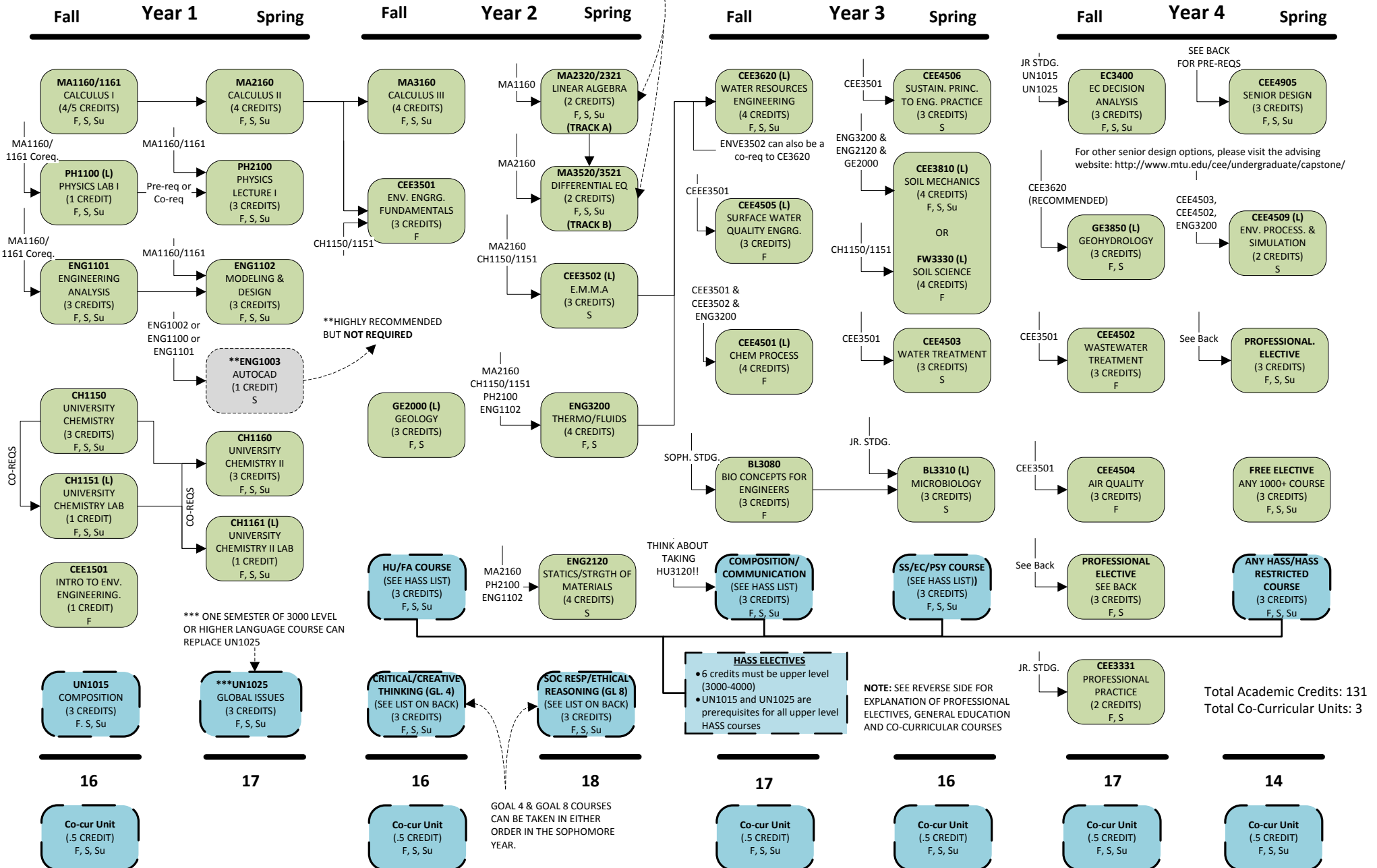
## Academic Year 2017-18



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

Updated: 5/17/17

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



**PROFESSIONAL ELECTIVES**

Course #	Course Title	Credits	Semester	Pre-reqs
ACC2000	Accounting Principles I	3	Fall, S, Su	---
CEE3332	Fundamentals of Construction Engineering	3	Fall, S, Su	Sophomore Standing
CEE4507	Distribution and Collection	3	Spring	CEE3620 and CEE3501
CEE4511	Solid and Hazardous Waste Engineering	3	Spring	CEE3501
CEE4515	Atmospheric Chemistry	3	Spring	CEE4504 or CEE4501, SR
CEE4518	Aquatic Biogeochemistry	3	Fall	CEE4501, CEE4505 (Co-reqs)
CEE4528	Global Biogeochemistry	3	Fall	CEE4501 (Co-req)
CEE4620	River and Floodplain Hydraulics	3	Fall	CEE3620
CEE4640	Stormwater Management and LID	3	Summer (Online)	CEE3620
CEE4820	Foundation Engineering	3	Fall	CEE3810
CEE4830	Geosynthetics Engineering	3	Spring	CEE3810
CEE4990	Special Topics (Varies by semester)	3	Fall, Spring	Varies
CEE5504	Modeling & Management of Lakes & Rivers	3	Spring	CEE4505
CS1121	Intro to Programming I	3	Fall, S, Su	MA1032 (Co-req)
CS1122	Intro to Programming II	3	Fall, S, Su	CS1121
EC3300	Industrial Organization	3	Fall, S, Su	EC2001, UN1015, UN1025
FW3540*	Intro to GIS for Natural Resource Mgmt	4	Spring	CEE3502
FW4220	Wetlands	4	Fall	---
GE3040	Fund. of Applied and Environ. Geophysics	4	Spring	PH2200
GE4800	Groundwater Engineering	3	On Demand	GE3850
MEEM4685	Env Resp Design & Manuf	3	Spring – alt yrs	Senior Standing
MKT3000	Principles of Marketing	3	Fall, S, Su	Cannot be a Freshman
PH1200/2200	Physics II	4	Fall, S, Su	PH2100, MA2160 (co-req)
SS3520	U.S. Environmental History	3	Fall	UN1015, UN1025
SS3630	Environmental Policy and Politics	3	Fall – alt yrs	UN1015, UN1025
SU2000	Surveying & GIS Fundamentals	2	Fall, Spring	---
UN4000	Seminar Series in Earth, Planetary & Space	1	Fall, Spring	Junior Standing

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

\*FW3540 WILL BE OPEN TO FORESTRY MAJORS ONLY UNTIL THE INITIAL REGISTRATION PERIOD IS OVER

**UNDERGRADUATE CATALOG:** <http://www.mtu.edu/catalog/undergraduate/course-descriptions/>

**GENERAL EDUCATION:** <http://www.mtu.edu/provost/academic-policies/general-education/programs/>

**CO-CURRICULAR LIST:** <http://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/>

**SENIOR DESIGN PREREQUISITES:**

REQUIRED

CEE3501 OR CEE3503, CEE3502, AND CEE3620

PLUS 4 OF THE FOLLOWING:

CEE3810/FW3330, CEE4502, CEE4504, CEE4506, GE3850

**GENERAL EDUCATION REQUIREMENTS**

**A. CORE COURSES (12 CREDITS)**

1. **UN1015** (COMPOSITION)
2. **UN1025** (GLOBAL ISSUES)
3. CRITICAL AND CREATIVE THINKING (**Goal 4**) \*
4. SOCIAL RESPONSIBILITY AND ETHICAL REASONING (**Goal 8**) \*\*

**\*GOAL 4 LIST**

FA2330  
FA2520  
FA2720  
FA2820  
HU2130  
HU2324  
HU2501  
HU2503  
HU2538  
HU2700  
HU2820  
HU2910  
SS2300

**\*\*GOAL 8 LIST**

EC2001  
ED2000  
PSY2000  
SS2100  
SS2200  
SS2400  
SS2500  
SS2501  
SS2502  
SS2503  
SS2504  
SS2505  
SS2600  
SS2610  
SS2700

**B. HASS COURSES (12 CREDITS) (General Ed Website, left)**

1. COMMUNICATION/COMP (HASS LIST)  
\_\_\_\_\_

2. HU OR FA COURSE (HASS LIST)  
\_\_\_\_\_

3. SS OR EC OR PSY COURSE (HASS LIST)  
\_\_\_\_\_

4. ANY HASS OR HASS RESTRICTED COURSE (HASS LIST)  
\_\_\_\_\_

- 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)**

PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_

PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_  
PE/FA/AR/AF \_\_\_\_\_