F INDICATES COURSE IS OFFERED FALL SEMESTER

S IN DICATES 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

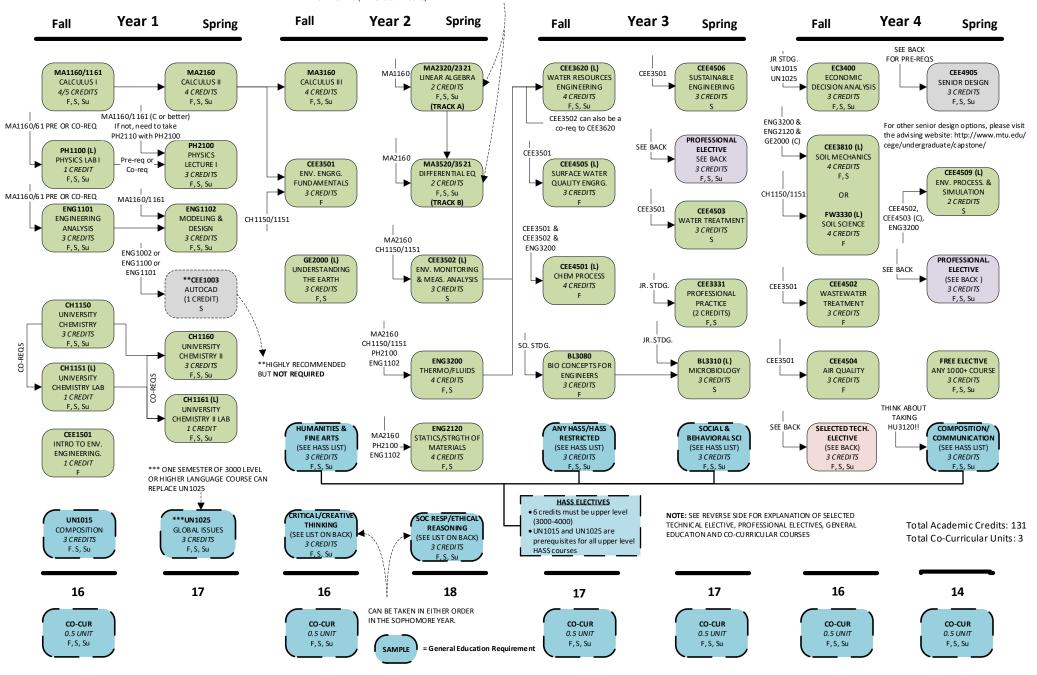
(C) INDICATES THE COURSE CAN EITHER BE TAKEN AT THE SAME TIME (CO-REQ) OR TAKEN PRIOR TO THE COURSE (PRE-REQ) ENVIRONMENTAL ENGINEERING FLOWCHART Academic Year 2021-22



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

Updated: 6.4.2021

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



Professio	onal Electives	General Education Requirements
	Professional Electives	
UNDERGRADUATE CATALOG: http://www.mtu.edu/catalog/courses/		
NY 3000 OR HIGHER LEVEL COURSE IN CIVIL AND	ANY 3000 OR HIGHER LEVEL COURSE IN HUMANITIES, SOCIAL SCIENCES, OR	A. CORE COURSES (12 CREDITS)
VVIRONMENTAL ENGINEERING OR IN ANY OTHER ENGINEERING	UNIVERSITY WIDE. (HU, SS, UN).	
EPARTMENT.	FOR EXAMPLE:	1. UN1015 (COMPOSITION)
OR EXAMPLE:	HU3120 Technical and Professional Communication (F, S, Su)	
EE3332 Fundamentals of Construction Engineering (F, S)	SS3520 U.S. Environmental History (F)	2. UN1025 (GLOBAL ISSUES) or 3000+ level
EE4507 Distribution and Collection (S)	SS3801 Science, Technology and Society (F)	Modern Language Course
EE4511 Solid and Hazardous Waste Engineering (S)	SS3811 Energy Security and Justice (S – ALT YEARS)	Modern Edinguage Course
EE4515 Atmospheric Chemistry (S)	SS3630 Environmental Policy and Politics (F – ALT YEARS)	3. CRITICAL AND CREATIVE THINKING
EE4518 Aquatic Biogeochemistry (F)	SS4200 Environmental Anthropology (F – ALT YEARS)	
EE4528 Global Biogeochemistry (F)	UN4000 Seminar Series in Earth, Planetary & Space Sciences (F, S)	ART1000, HU2130, HU2324, HU2501, HU2503,
EE4610 Water Resources System Modeling & Design (S)		HU2538, HU2700, HU2820, HU2910, MUS1000,
EE4620 River and Floodplain Hydraulics (F)	NOTES:	SND1000, SS2300, THEA1000
EE4640 Stormwater Management and LID (Su - ONLINE)	• AN OVERALL GPA OF 3.00 IS REQUIRED TO TAKE GRADUATE LEVEL	
EE4650 Hydraulic Structures (F)	COURSES (5000 LEVEL).	4. SOCIAL RESP. & ETHICAL REASONING
EE4820 Foundation Engineering (F)	 A MAXIMUM OF TWO (2) GRADUATE LEVEL COURSES MAY BE USED 	EC2001, PSY2000, SS2100, SS2200, SS2400,
EE4830 Geosynthetics (S – ALT YEARS)	TOWARD YOUR BS ENVE DEGREE.	SS2500, SS2501, SS2502, SS2503, SS2504, SS2505,
EE4990 Special Topics (Varies by semester) (F, S, Su)		SS2600, SS2610, SS2700
E 3040 Fund. of Applied and Environ. Geophysics (S)	OTHER COURSES MAY BE USED TO SATISFY THE PROFESSIONAL	
E4800 Groundwater Engineering (ON DEMAND)	ELECTIVES REQUIREMENT IF APPROVED BY THE DEPARTMENT OF CIVIL,	
IEEM4685 Env. Resp. Design and Manuf. (S – ALT YEARS)	ENVIRONMENTAL, AND GEOSPATIAL ENGINEERING ACADEMIC	B. HASS COURSES (12 CREDITS)
	ADVISOR.	
NY 1000 OR HIGHER LEVEL COURSE IN BIOLOGY, CHEMISTRY,		(General Ed Website, left)
OMPUTER SCIENCE, CONSTRUCTION MANAGEMENT, GEOLOGY,	SELECTED TECHNICAL ELECTIVE COURSES (Choose 1):	
DRESTRY, OR PHYSICS.		1. COMMUNICATION & COMPOSITION:
OR EXAMPLE:	GE3850 Geohydrology (Spring) CEE4507 Dist. & Collection (Spring)	
S1121 Intro to Programming I (F, S, Su)	CEE4507 Dist. & Collection (spring) CEE4511 Solid and Haz. Waste (Spring)	
S1122 Intro to Programming II (F, S, Su)	CEE4511 Solid and Faz. Waste (Spring) CEE4518 Aquatic Biogeochemistry (Fall – Alt Years beg 2014-2015)	2. HUMANITIES & FINE ARTS:
W3540 Intro to GIS for Natural Resource Management (S)	CEE4518 Aqualle Biogeochemistry (Fall – Alt Years beg 2014-2015) CEE4528 Global Biogeochemistry (Fall – Alt Years beg 2015-2016)	
W4220 Wetlands (F)	CEE4620 River & Floodplain Hydraulics (Fall)	
W4540 Remote Sensing of the Environment (F)	CEE4640 Stormwater and LID (Summer)	3. SOCIAL & BEHAVIORAL SCIENCES:
H1200/2200 Physics II (F, S, Su)	CEE4665 Stream Restoration (Spring)	
	CEE4993 Engineering with Developing Communities (Fall)	
NY 4000 OR HIGHER LEVEL COURSE IN MATHEMATICS	CH4515 Atm Chem. (Spring)	4. ANY HASS OR HASS RESTRICTED COURSE:
OR EXAMPLE:	MEEM4240 Combustion & Air Pollution (Fall/Spring)	4. ANT HASS OR HASS RESTRICTED COURSE.
IA4610 Numerical Linear Algebra (S)		
IA4620 Numerical Methods for PDEs (F)		
A4720 Design and Analysis of Experiments (S)		• 6 credits must be upper division 3000-4000
	SENIOR DESIGN PREREQUISITES:	level courses
NY 2000 OR HIGHER LEVEL COURSE IN BUSINESS OR ECONOMICS.	Complete 7 of the following courses: CEE3620, CEE3810/FW3330,	 No more than 3 credits from the HASS
ACC, BUS, EC, FIN, MGT, MIS, MKT).	CEE4501, CEE4502, CEE4503, CEE4504, CEE4505, CEE4506, CEE4509	Restricted list can be used to satisfy HASS
OR EXAMPLE:	CLL4301, CEE4302, CEE4303, CEE4304, CEE4303, CEE4300, CEE4509	requirements.
CC2000 Accounting Principles I (F, S, Su) C3300 Industrial Organization (F, S, Su)		Each course can satisfy only one
IKT3000 Principles of Marketing (F, S, Su)		requirement.
C4640 Natural Resources Economics (F)		- cquirement.
C4650 Environmental Economics (F)	UNDERGRADUATE CATALOG (COURSE DESCRIPTIONS):	
	https://www.mtu.edu/catalog/courses/	C. CO-CURRICULAR ACTIVITIES (3 UNITS)
NY 2000 OR HIGHER LEVEL COURSE IN GEOSPATIAL ENGINEERING		(General Ed Website, left)
SU).	GENERAL EDUCATION (CO-CURRICULAR & HASS LIST):	1 4
OR EXAMPLE:		2 5
J2000 Surveying & GIS Fundamentals (F, S)	https://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/	3 6