**WATER RESOURCES REQUIREMENTS**

Choose 1 course from the following

- CEE3202 STRUCTURAL ANALYSIS F, Sp 3 cr.
- CEE3332 FUND. OF CONSTRUCTION F, Sp 3 cr.
- CEE3401 TRANSPORTATION ENGRG F, Sp 3 cr.

**WATER RESOURCES DESIGN COURSE** (select 1)

- CEE4620 RIVER/FLOODPLAIN HYDRAULICS Fall 3 cr.
- CEE4640 STORMWATER MANAGE. & LID Su 3 cr.
- CEE4665 STREAM RESTORATION Spring 3 cr.

**WATER RESOURCES ELECTIVES** (select 4)

- CEE4502 WASTE TREATMENT Fall 3 cr.
- CEE4503 WATER TREATMENT Spring 3 cr.
- CEE4505 SURFACE WATER QUALITY Fall 3 cr.
- CEE4507 WATER DISTRIBUTION/COLLECT. Spring 3 cr.
- CEE4610 WATER RES. SYSTEM MODELING Spring 3 cr.
- CEE4620 RIVER/FLOODPLAIN HYDRAULICS Fall 3 cr.
- CEE4640 STORMWATER MANAGE. & LID Su 3 cr.
- CEE4650 HYDRAULIC STRUCTURES Var. 3 cr.
- CEE4665 STREAM RESTORATION Spring 3 cr.
- CEE4993 ENGRG W/ DEV COMM. Fall 3 cr.
- CEE5620 STOCHASTIC HYDROLOGY Spring 3 cr.
- CEE5666 WR PLANNING & MANAGEMENT Var. 3 cr.
- GE3850 GEOHYDROLOGY Spring 3 cr.
- GE4800 GROUNDWATER ENGRG Spring 3 cr.

**SENIOR DESIGN (SD) PRE-REQS**

(complete 7 of the following)

CEE3101, CEE3331, (CEE3202 or CEE3332 or CEE3401), CEE3620, CEE3810, CEE3503, WATER RESOURCES DESIGN COURSE, & 2 WATER RESOURCES 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:**

(Completing the 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
  4. SOCIAL RESPONSIBILITY AND ETHICAL REASONING

- **B. HASS COURSES (12 Credits)**
  1. COMM/COMP:
  2. HUMANITIES/FINE ARTS:
  3. SOCIAL & BEHAVIORAL SCIENCES:
  4. ANY HASS OR HASS RESTRICTED COURSE:

- **C. CO-CURRICULAR ACTIVITIES (3 Units)**
  1. __________
  2. __________
  3. __________

**PROFESSIONAL ELECTIVES**

UNDERGRADUATE CATALOG: [https://www.mtu.edu/catalog/courses/](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.