Senior Design (SD) Pre-reqs (complete 7 of the following)

CEE3101, CEE3311, (CEE3202 or CEE3332 or CEE3401), CEE3620, CEE3810, CEE3503, WATER RESOURCES DESIGN COURSE, & 2 WATER RESOURCES ELECTIVES

Water Resources Requirements
Choose 1 course from the following

- CEE3101, STRUCTURAL ANALYSIS F, Sp 3 cr.
- CEE3331, FUND. OF CONSTRUCTION F, Sp 3 cr.
- CEE3401, TRANSPORTATION ENGRG F, Sp 3 cr.
- CEE3620, WATER RESOURCES DESIGN COURSE, & 2 WATER RESOURCES ELECTIVES

WATER RESOURCES DESIGN COURSE (select 1)
- CEE4620, RIVER/FLOODPLAIN HYDRAULICS Fall 3 cr.
- CEE4640, STORMWATER MANAGE. & LID Su 3 cr.
- CEE4666, 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.
- CEE5620, STOCHASTIC HYDROLOGY Spring 3 cr.
- CEE5666, WR PLANNING & MANAGEMENT Var. 3 cr.
- GE3850, GEOHYDROLOGY Spring 3 cr.
- GE4800, GROUNDWATER ENGRG Spring 3 cr.

Engineering Science Elective (select 1)
- BE2700, BIOMEDICAL SIGNALS & SYSTEMS
- CM2200, INTRO TO MINERALS & MATERIALS
- EE3010, CIRCUITS AND INSTRUMENTATION
- MEE2100, INTRO TO MATERIALS SCI & ENGRG
- MEE2201, INTRODUCTORY THERMODYNAMICS
- MEE2700, DYNAMICS

ENGINEERING SCIENCE ELECTIVES

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.

GENERAL EDUCATION:
(CO-CURRICULAR & HASS LIST)
https://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/

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, SND1000, SS2300, THEA1000

4. SOCIAL RESP. & ETHICAL REASONING
   EC2001, PSY2000, SS2100, SS2200, SS2400, SS2500, SS2501, SS2502, SS2503, SS2504, SS2505, SS2600, SS2610, SS2700

B. HASS COURSES (12 CREDITS)

1. COMM/COMP:____________________________________
2. HUMANITIES/FINE ARTS:____________________________________
3. SOCIAL & BEHAVIORAL SCIENCES:____________________________________
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)

1. __________ 4. __________
2. __________ 5. __________
3. __________ 6. __________