**Built Infrastructure Requirements**  
**BUILT INFRASTRUCTURE DESIGN COURSE** (select 1)  
CEE4213  STRUCTURAL CONCRETE DESIGN  Spring  4 cr.  
CEE4223  STEEL DESIGN  Fall  4 cr.  

**BUILT INFRASTRUCTURE ELECTIVES** (select 4)  
CEE4020  DIGITAL PROJECT DELIVERY  Fall  3 cr.  
CEE4201  MATRIX STRUCTURAL ANALYSIS  Fall  3 cr.  
CEE4213  STRUCTURAL CONCRETE DESIGN  Spring  4 cr.  
CEE4223  STEEL DESIGN  Fall  4 cr.  
CEE4233  STRUCTURAL TIMBER DESIGN  Spring  3 cr.  
CEE4244  LOADS FOR CIVIL STRUCTURES  Spring  3 cr.  
CEE4333  ESTIMATING, PLANNING, CONST.  Spring  3 cr.  
CEE4344  CONSTRUCTION SCHEDULING  Spring  3 cr.  
CEE4820  FOUNDATION ENGINEERING  Fall  3 cr.  
CEE4830  GEOSYNTHETICS  Spring  3 cr.  
CEE4850  ROCK ENGINEERING  Spring  3 cr.  
CEE5212  PRESTRESSED CONCRETE DESIGN  Fall  3 cr.  
CEE5213  CONCRETE/MASONRY BLDG SYS  Fall  3 cr.  

**Senior Design (SD) Pre-reqs**  
(complete 7 of the following)  
CEE3101, CEE3331, CEE3332, CEE3202, CEE3620, CEE3810, BUILT INFRASTRUCTURE DESIGN COURSE, & 2 BUILT INFRASTRUCTURE 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  

**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.  

**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)  
(General Ed Website, left)  
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)  
(General Ed Website, left)  
1. __________  4. __________  
2. __________  5. __________  
3. __________  6. __________  

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

**UNDERGRADUATE CATALOG (COURSE DESCRIPTIONS)**:  
[https://www.mtu.edu/catalog/courses/](https://www.mtu.edu/catalog/courses/)