**Transportation Requirements**

Choose 1 course from the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Term</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE3202</td>
<td>STRUCTURAL ANALYSIS</td>
<td>F, Sp</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CEE3503</td>
<td>ENVIRONMENTAL ENG.</td>
<td>Sp</td>
<td>3 cr.</td>
</tr>
<tr>
<td>CEE3620</td>
<td>WATER RESOURCES ENG</td>
<td>F, Sp, Su</td>
<td>4 cr.</td>
</tr>
</tbody>
</table>

**TRANSPORTATION DESIGN COURSE (Select 1)**

- CEE4401 PAVEMENT DESIGN  Fall  3 cr.
- CEE4407 TRANSPORTATION DESIGN  Spring  4 cr.

**TRANSPORTATION ELECTIVES (select 4)**

- CEE4402 COMPUTER APPLICATIONS  Fall  3 cr.
- CEE4411 BITUMINOUS MATERIALS  Fall  3 cr.
- CEE4433 ESTIMATING, PLAN., CONST.  Spring  3 cr.
- CEE4434 CONSTRUCTION SCHEDULING  Spring  3 cr.
- CEE4401 PAVEMENT DESIGN  Fall  3 cr.
- CEE4402 TRAFFIC ENGINEERING  Fall  3 cr.
- *CEE4404 RAILROAD ENGINEERING  Fall  3 cr.
  (*pre-req is CEE3490 – 1 cr, Offered in the spring)
- CEE4406 AIRPORT PLANNING  Spring  3 cr.
- CEE4407 TRANSPORTATION DESIGN  Spring  4 cr.
- CEE4410 TRANSPORTATION PLANNING  Fall  3 cr.
- CEE4760 OPT. METHODS IN CEE  Spring  3 cr.
- CEE5190 SPECIAL TOPICS  Varies  3 cr.
- CEE5402 TRAFFIC FLOW THEORY  Spring (atl)  3 cr.
- CEE5408 PUBLIC TRANSIT  On Dem.  3 cr.

**Senior Design (SD) Pre-reqs**

(Complete 7 of the following)

- CEE3101, (CEE3202 or CEE3503 or CEE3620), CEE3331, CEE3332, CEE3401, CEE3810

**TRANSPORTATION DESIGN COURSE, & 2 TRANSPORTATION ELECTIVES**

**Engineering Science Elective List (3 credits)**

- BE2700 BIOMEDICAL SIGNALS & SYSTEMS
- CM2110 FUND. OF CHEM ENGRG 1
- CM2200 INTRO TO MINERALS & MATERIALS
- EE3010 CIRCUITS AND INSTRUMENTATION
- MSE2100 INTRO TO MATERIALS SCI & ENGRG
- MEEM2201 THERMODYNAMICS
- MEEM2700 DYNAMICS

**UNDERGRADUATE CATALOG:**

http://www.mtu.edu/catalog/courses/

**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**
   - 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)

   PE/FA/AR/AF____  PE/FA/AR/AF____  PE/FA/AR/AF____  PE/FA/AR/AF____

**PROFESSIONAL ELECTIVES**

**UNDERGRADUATE CATALOG:** http://www.mtu.edu/catalog/courses

- Any **1000** or higher level course in Computer Science, Fine Arts or Forestry. (CS, FA, FW)
- 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 AND ENVIRONMENTAL ENGINEERING ACADEMIC ADVISOR.