



## Transportation Requirements

Choose 1 course from the following

CEE3202	STRUCTURAL ANALYSIS	F, Sp	3 cr.
CEE3503	ENVIRONMENTAL ENG.	Sp	3 cr.
CEE3620	WATER RESOURCES ENG	F, Sp, Su	4 cr.

### TRANSPORTATION DESIGN COURSE (Select 1)

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

### TRANSPORTATION ELECTIVES (select 4)

CEE4020	COMPUTER APPLICATIONS	Fall	3 cr.
CEE4101	BITUMINOUS MATERIALS	Fall	3 cr.
CEE4333	ESTIMATING, PLAN., CONST.	Spring	3 cr.
CEE4344	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.

## 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.

## 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**

**(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**  
FA2330, FA2520, FA2720, FA2820, HU2130, HU2324, HU2501, HU2503, HU2538, HU2700, HU2820, HU2910, SS2300
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)

PE/FA/AR/AF _____	PE/FA/AR/AF _____
PE/FA/AR/AF _____	PE/FA/AR/AF _____
PE/FA/AR/AF _____	PE/FA/AR/AF _____