Professional Electives

(UNDERGRADUATE CATALOG: http://www.mtu.edu/catalog/courses/)

ANY 3000 OR HIGHER LEVEL COURSE IN CIVIL AND ENVIRONMENTAL ENGINEERING OR IN ANY OTHER ENGINEERING DEPARTMENT.

FOR EXAMPLE:
CEE3332 Fundamentals of Construction Engineering (F, S)
CEE4507 Distribution and Collection (S)
CEE4511 Solid and Hazardous Waste Engineering (S)
CEE4515 Atmospheric Chemistry (S)
CEE4518 Aquatic Biogeochemistry (F)
CEE4528 Global Biogeochemistry (S)
CEE4620 River and Floodplain Hydraulics (F)
CEE4640 Stormwater Management and LID (Su - ONLINE)
CEE4820 Foundation Engineering (F)
CEE4830 Geosynthetics Engineering (S)
CEE4990 Special Topics (Varies by semester) (F, S, Su)
GE 3040 Fund. of Applied and Environ. Geophysics (S)
GE4800 Groundwater Engineering (ON DEMAND)
MEEM4685 Env. Resp. Design and Manuf. (S – ALT YEARS)

ANY 1000 OR HIGHER LEVEL COURSE IN BIOLOGY, CHEMISTRY, COMPUTER SCIENCE, CONSTRUCTION MANAGEMENT, GEOLOGY, FORESTRY, OR PHYSICS.

FOR EXAMPLE:
CS1121 Intro to Programming I (F, S, Su)
CS1122 Intro to Programming II (F, S, Su)
FW3540 Intro to GIS for Natural Resource Management (S)
FW4220 Wetlands (F)
FW4540 Remote Sensing of the Environment (F)
PH1200/2200 Physics II (F, S, Su)

ANY 4000 OR HIGHER LEVEL COURSE IN MATHEMATICS

FOR EXAMPLE:
MA4610 Numerical Linear Algebra (S)
MA4620 Numerical Methods for PDEs (F)
MA4720 Design and Analysis of Experiments (S)

ANY 2000 OR HIGHER LEVEL COURSE IN BUSINESS OR ECONOMICS.

(ACC, BUS, EC, FIN, MGT, MIS, MKT).

FOR EXAMPLE:
ACC2000 Accounting Principles I (F, S, Su)
EC3300 Industrial Organization (F, S, Su)
MKT3000 Principles of Marketing (F, S, Su)
EC4640 Natural Resources Economics (F)
EC4650 Environmental Economics (F)

ANY 2000 OR HIGHER LEVEL COURSE IN SURVEYING

FOR EXAMPLE:
SU2000 Surveying & GIS Fundamentals (F, S)

ANY 3000 OR HIGHER LEVEL COURSE IN HUMANITIES, SOCIAL SCIENCES, OR UNIVERSITY WIDE. (HU, SS, UN).

FOR EXAMPLE:
HU3120 Technical and Professional Communication (F, S, Su)
SS3520 U.S. Environmental History (F)
SS3801 Science, Technology and Society (F)
SS3811 Energy Security and Justice (S – ALT YEARS)
SS3630 Environmental Policy and Politics (F – ALT YEARS)
SS4200 Environmental Anthropology (F – ALT YEARS)
UN4000 Seminar Series in Earth, Planetary & Space Sciences (F, S)

NOTES:

- AN OVERALL GPA OF 3.00 IS REQUIRED TO TAKE GRADUATE LEVEL COURSES (5000 LEVEL).
- A MAXIMUM OF TWO (2) GRADUATE LEVEL COURSES MAY BE USED TOWARD YOUR BS ENVE DEGREE.
- OTHER COURSES MAY BE USED TO SATISFY THE PROFESSIONAL ELECTIVES REQUIREMENT IF APPROVED BY THE DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING ACADEMIC ADVISOR.

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)
3. CRITICAL AND CREATIVE THINKING (Goal 4) *
4. SOCIAL RESPONSIBILITY AND ETHICAL REASONING (Goal 8) **

*GOAL 4 LIST **GOAL 8 LIST
FA2330 EC2001
FA2520 ED2000
FA2720 PSY2000
FA2820 S52100
HU2130 S52200
HU2324 S52400
HU2501 S52500
HU2503 S52501
HU2538 SS2502
HU2700 SS2503
HU2820 SS2504
HU2910 SS2505
SS2300 SS2600
SS2610 SS2700

B. HASS COURSES (12 CREDITS) (General Ed Website, left)

1. COMMUNICATION/COMP (HASS LIST)
2. HU OR FA COURSE (HASS LIST)
3. SS OR EC OR PSY COURSE (HASS LIST)
4. ANY HASS OR HASS RESTRICTED COURSE (HASS LIST)

- 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)

(Co-curricular 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______

SENIOR DESIGN PREREQUISITES:

REQUIRED
CEE3501 OR CEE3503, CEE3502, AND CEE3620
PLUS 4 OF THE FOLLOWING:
CEE3810/FW3330, CEE4502, CEE4504, CEE4506, GE3850