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

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

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#### Engineering Elective List (3 credits)
- **CEE3101** Civil Engineering Materials (3 cr)  
  F, S
- **CEE3332** Fundamentals of Construction (3 cr)  
  F, S
- **CEE3401** Transportation Engineering (3 cr)  
  F, S
- **CEE3810** Soil Mechanics (4 cr)  
  F, S
- **ENG3200** Thermo/Fluids (4 cr)  
  F, S
- **ENTXXXX** Enterprise (Except 3960/4950) (var)  
  F, S
- **UN3002** Co-op (1-2 cr)  
  F, S, Su

#### Science Elective List (3 credits)
- **BL2001** Valuing the Great Lakes (3 cr)  
  F, Su
- **BL2160** Botany (4 cr)  
  S
- **CH1153** Chemistry Recitation I (1 cr)  
  F, S, Su
- **FW2010** Vegetation of North America (4 cr)  
  F
- **PH1200/2200** Physics II (4 cr – 1 cr lab, 3 cr lecture)  
  F, S, Su
- **PH1600/1610** Introductory Astronomy & Lab (3 cr – 1 cr lab, 2 cr lecture)  
  F, S, Su
- **GE3850** Geohydrology (3 cr)  
  S

#### Surveying Elective List (3 credits)
- **SU4010** Geospatial Concepts, Technologies, and Data (3 cr)
- **SU4011** Cadastre and Land Information Systems (3 cr)
- **SU4012** Geospatial Data Mining and Crowdsourcing (3 cr)
- **SU4013** Hydrographic Mapping & Surveying (3 cr)
- **SU4300** Geospatial Monitoring of Eng Structures & Geodynamic Proc (3 cr)
- **SU4996** Special Topics in Geospatial Technologies (var)
- **SU4997** Independent Study in Geospatial Technologies (var)
- **SU4998** Undergrad Research in Geospatial Technologies (var)

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#### 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, HU2701, 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. __________
2. __________
3. __________
4. __________
5. __________
6. __________