BSE with Geospatial Emphasis 2017-18
(minimum of 127 credits)

Academic questions: E-mail efadvise@mtu.edu

1 Senior Design Ready:
   a. Senior Design Prerequisite courses:
      CS1121, CEE3332, EE3010, ENG1101, ENG1102, ENG2120,
      ENG3200, ENG3830.
   b. Core Competency Check test - Take and pass the test; test topics
      include all ENG4905 prerequisite courses except CEE3332 and
      ENG3830.

2 General Education Requirements (24 credits + 3 PE units):

I. Core Courses (12 credits)
   ___ UN1015 Composition
   ___ UN1025 Global Issues or 3000+ Modern Language
   ___ Critical/Creative Think List
   ___ Social Resp./Ethical Reason List

II. HASS Courses Requirements (12 credits)
(www.admin.mtu.edu/em/documents/HASS Distribution List.pdf)
   - 6 credits upper level (3000-4999)
   - 3 credits from each listed below
     ___ Communication/Composition
     ___ Humanities/Fine Arts List (HU/FA)
     ___ Social & Behavioral Science List (EC/PSY/SS)
     ___ 3 credits from any list

* EC3400 is required by the degree and may NOT be counted as a HASS
   course.

III. Co-curricular activities (3 units)
In the co-curricular requirement, the three semester units will be physical
education activities. These units are required for graduation, but are not included
in the calculation of the GPA, nor in the overall degree-credit requirement. Note:
most physical education activities will last for 7 ½ weeks or ½ semester. A
student would need six of these ½-semester units to fulfill the 3-semester unit co-
curricular requirement.

PE__________ PE__________ PE__________
PE__________ PE__________ PE__________

3 Geospatial Directed Electives (16 credits):

Required courses (14 credits)
   ___ SU4060 – 3 Geodesy (see Spring 4)
   ___ ACC 2000 – 3 Accounting Principles I
   ___ BUS 2200 – 3 Business Law
   ___ CS 1122 – 2 (CS 1121) Intro to Computer Science II
   ___ CS 2321 – 3 (CS 1122) Data Structures
   ___ FW 4540 – 3 Remote Sensing of the Environment
   ___ GE 3250 – 3 (MA 1160) Computational Geosciences
   ___ PH 1200 / 2200 – 1 or 4 (MA 2160 & PH 2100) University Physics II
   ___ PH 1600/1610 – 2 or 3 Introductory Astronomy
   ___ SU 3110 – 4 (SU 2220) Surveying Field Practice
   ___ SU 3180 – 3 (SU 3600(C)) Boundary Surveying Principles
   ___ SU4045 – 3 Geospatial Data Fusion
   ___ SU 4100 – 3 (SU 4060(C)) Geodetic Positioning
   ___ SU 4142 – 3 (SU 3600) Terrestrial Lidar Scanning
   ___ SU4990 – 3 Professional Practice Seminar
   ___ UN 3002 – 1-2 Undergraduate Cooperative Education Laboratory
   ___ UN 4000 – 1 Remote Sensing Seminar