2013-14 BSE Geospatial Engineering (Technical Emphasis)
Recommended Course Sequence

**Fall 1 (15-16)**
- **UN 1015** (3) Composition
- **UN 1025** (3) Global Issues
- **ENG 1101** (3) Engineering Analysis and Problem Solving
- **ENG 1102** (3) Engineering Modeling and Design
- **MA 1160** (4) Calculus with Technology I
- **MA 2160** (4) Calculus with Technology II
- **CH 1150/1151** (4) University Chemistry I
- **PH 1100** (1) Physics by Inquiry I
- **PH 2100** (3) Univ. Physics I - Mechanics

**Spring 1 (15)**
- **SU 2050** (3) Plane Surveying
- **SU 2000** (2) Fundamentals of Surveying
- **MA 2320** (4) Electric Circuits and Computer Systems
- **MA 3210** (3) Multivariable Calculus with Technology
- **MA 3520** (2) Differential Equations
- **CS 1121** (4) Introduction to Computer Science I

**Fall 2 (14)**
- **SS/Behavioral from list** (3)
- **SU 2220** (3) Route/Construction Surveying
- **ENG 2120** (4) Statics & Strength of Materials
- **ENG 3200** (4) Thermodynamics & Fluid Mechanics
- **ENG 4900** (3) Capstone Design Project

**Spring 2 (16)**
- **SU 3600** (4) Survey Computer & Adjustments
- **EE 3010** (4) Statics & Strength of Materials
- **EE 3201** (4) Engineering Statistics
- **MA 3710** (3) Engineering Statistics
- **SU 4140** (3) Photogrammetry

**Fall 3 (18)**
- **EC 3400** (3) Economic Decision Analysis
- **CS 1121** (4) Introduction to Computer Science I
- **MA 3540** (4) Geospatial Info Technology w/ Elements of Field Cartography
- **SU 4060** (3) Geodesy

**Spring 3 (17)**
- **SU 4010 OR SU 4045 OR SU 4480** (3) Directed Elective
- **EC 3332** (3) Fundamentals of Construction Engineering
- **SU 4900** (3) Capstone Design Project
- **SU 4010 OR SU 4045 OR SU 4480** (3) Directed Elective

**Fall 4 (17)**
- **SU 3110** (4) Introductory Astronomy
- **SU 3180** (3) Elements of Surveying
- **SU 4050** (3) Geospatial Data Fusion
- **SU 4990** (3) Professional Practice Seminar

**Spring 4 (15)**
- **SU 3002** (1-2) Undergraduate Cooperative Education Laboratory
- **SU 4000** (1) Remote Sensing Seminar

**Total 127**


This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.

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Geospatial Engineering Emphasis 2013-14  
(minimum of 127 credits)

Academic questions: E-mail  efadvise@mtu.edu

1  Math/Science Electives 5 credits needed.
2  Directed Electives 13 credits needed (list on front).
3  Senior Design Ready:
   a. Senior Design Prerequisite courses:
      CS1121, EE3010, ENG1101, ENG1102, ENG2120, ENG3200.
   b. Core Competency Check test - Take and pass the test; test topics
      include all ENG4905 prerequisite courses.
4  See table below for General Education Requirements:

   III.  HASS Courses Requirements (12 credits)  
         (www.admin.mtu.edu/em/documents/HASS Distribution List.pdf)
         - 6 credits 3000- or 4000-level
         - No more than 3 credits on the Creative Endeavors List
         - No more than 3 credits on the Supplemental List **

   A. 6 credits 3000- or 4000-level:

       1. _______________     2. _______________

   B. 6 credits at any level:

       1. _______________**     2. _______________

* Or one semester of a 3000 level or higher modern language.
** EC2001 is recommended for students considering an MBA at MTU.
EC3400 does NOT count as a HASS.

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_________