2015-16 BS Surveying Engineering
Recommended Course Sequence

Fall 1 (15-16)
- UN 1015 (3) Composition
- HASS Elective (3)
- CS 1121 (3) Introduction to Programming
- MA 1160 or MA 1161 (4) Calculus with Technology I
- MA 2160 (3) Calculus with Technology II
- PH 1100 (1) Physics by Inquiry I
- PH 2100 (3) Univ. Physics I - Mechanics
- PE

Spring 1 (15)
- UN 1025 (3) Global Issues or Modern Language Option
- UN 1015 & UN 1025
- EET 1411 (4) Basic Electronics
- MA 2320 (2) Elementary Linear Algebra
- MA 3160 (4) Multivariable Calculus with Technology
- PE

Fall 2 (16)
- Goal 4 - Critical and Creative Thinking (3)
- Goal 8 - Social Responsibility & Ethical Reasoning (3)
- HU 3120 (3) Technical and Professional Communication
- SU 2000 (2) Introduction to Surveying
- SU 2050 (3) Plane Surveying
- SU 2220 (3) Route and Construction Surveying
- GE 2000 or GE 2100 (3) Understanding the Earth/Environment Geology
- Science Elective (3)
- PE

Spring 2 (16)
- SU 3110 (4) Surveying Field Practice
- SU 3210 (4) Site Planning and Development
- SU 3600 (4) Surveying Computations & Adjustments
- MA 3710 (3) Engineering Statistics
- MA 3160 (3) Engineering Statistics
- EN 2120 or EN 3200 (4) Statics
- PE

Fall 3 (17)
- SU 3540 (4) Geospatial Info Technology with Elements of Field Cartography
- SU 4100 (3) Geodetic Positioning
- BUS 2200 (3) Business Law
- CE 3390 (3) Professional Practice Seminar
- PE

Spring 3 (17)
- SU 4060 (3) Geodesy
- SU 4140 (3) Photogrammetry
- SU 4900 (3) Capstone Design Project
- SU 4140 (3) Capstone Design Project
- PE

Fall 4 (16-17)
- MA 2100 (3) Calculus with Technology II
- MA 3210 (4) Site Planning and Development
- SU 4180 (3) Land Subdivision Design
- BUS 2200 (3) Business Law
- PE

Spring 4 (15)
- SU 4990 (3) Professional Practice Seminar
- SU 4996 (3) Special Topics in Geospatial Science and Technology
- SU 4997 (3) Independent Study in Geospatial Science and Technology
- SU 4998 (3) Undergraduate Research in Geospatial Science and Technology
- PE

Total 128

Electives (Prerequisite/s)
(Choose 10-11 credits)
- CE 3101 - 3 (Engineering)
- (ENG 2120)
- Civil Engineering Materials
- CE 3331 - 2 (Professional Practice
- CE 3332 - 3 (Engineering)
- Fund of Construction Engineering
- CE 3401 - 3 (Engineering)
- Transportation Engineering
- CE 3810 - 4 (Engineering)
- (GE 2200 & ENG 2120 & ENG 3200)
- Soil Mechanics for Engineers
- CH 1150 - 1 (Science)
- Co-Prerequisite: CH 1150
- CH 1150 (MA 1160(C) or MA 1161(C))
- University Chemistry Recitation I
- ENG 2120 - 4 (MA 2160 & PH 2100 & ENG 1102)
- Statics-Strength of Materials
- or—
- ENG 3200 - 4 (MA 2160 & CH 1150 & CH 1151 & PH 2100 & ENG 1102)
- Thermodynamics/Fluid Mechanics
- ENT XXXX - variable 1-2
- Enterprise Project Work
- FW 2010 - 4 (Science)
- Geography of North America
- GE 4100 - 4 (Science)
- GE 2000
- Geotechnical Engineering
- PH 1200/PH 2200 - 4 (Science)
- (PH 1100 & PH 2100 & MA 2160)
- Physics by Inquiry II/Univ. Physics II
- PH 1600/PH 1610 - 2-3 (Science)
- Introductory Astronomy/Lab optional
- SU 4003 - 1 (Surveying)
- Geographic Information Systems (GIS) Technology Fundamentals
- SU 4010 - 3 (Surveying)
- Geospatial Concepts, Technologies, and Data
- SU 4040 - 3 (Engineering or Surveying)
- Geospatial Data Fusion
- SU 4140 (3)
- SU 4142 - 3 (Surveying)
- 3D Surveying and Modeling with Laser Scanner Data
- SU 4480 - 3 (Engineering or Surveying)
- Geospatial Science and Technology
- to Support Land Cadastre
- SU 4996 - 1-3 (Surveying)
- Special Topics in Geospatial Technologies
- SU 4997 - 1-3 (Surveying)
- Independent Study in Geospatial Technologies
- SU 4998 - 1-6
- Undergraduate Research in Geospatial Technologies
- UN 3000 - 1-2
- Undergraduate Cooperative Education Laboratory

See Enterprise Minor:
http://www.mtu.edu/registrar/students/major-degree/minors/audit/interdisciplinary/201408/M
or%20minorsEnterprise%20list.pdf


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