2011-12 BS Surveying Engineering

Recommended Course Sequence

Total 130

Fall 1 (16-17)
- UN 1001 (3) Perspectives on Inquiry
- Gen Ed (3) * Distribution
- SU 1500 (1) Introduction to Surveying Instruments
- MA 1160 (4) or MA1161 (5) Calculus with Technology I
- CH 1150 & CH 1151 (4) University Chemistry I & Lab I
- PH 1100 (1) Physics by Inquiry I
- PE

Spring 1 (16)
- UN 1002 (4) World Cultures
- SU 2000 (2) Introduction to Surveying
- CAD or tutorial
- CS 1121 or MIS 2100 (3) Intro to Prgmg/ Introduction to Business Prgmg
- MA 2160 (4) Calculus with Technology II
- PH 2100 (3) Univ. Physics I - Mechanics
- PE

Fall 2 (15)
- UN 2001 (3) Composition: Oral, Written, and Visual
- SU 2050 (3) Plane Surveying
- ACC 2000 (3) Accounting Principles I
- MA 2320 (2) Elementary Linear Algebra
- MA 3160 (4) Multivariable Calculus with Technology

Spring 2 (16)
- UN 2002 (3) Institutions
- SU 2220 (3) Route and Construction Surveying
- SU 2260 (3) Survey Computations
- EET 1411 (4) Basic Electronics
- MA 3710 (3) Engineering Statistics

Fall 3 (16)
- Gen Ed (3) * Distribution
- BUS 2200 (3) Business Law
- SU 3110 (4) Surveying Field Practice
- SU 3180 (3) Boundary Surveying Principles
- Science Elective (3)
- PE

Spring 3 (18)
- GE 2100 Gen Ed (3) •Distribution Supplemental
- SU 3250 (3) Geodetic Adjustments Theory
- SU 3210 (4) Site Planning and Development
- ENG 2120 or ENG 3200 (4) Statics –OR-- Thermodynamics/ Fluid Dynamics
- SU 3540 (4) Geospatial Info Technology with Elements of Field Cartography
- PE

Fall 4 (16)
- Gen Ed (3) * Distribution
- SU 4060 (3) Geodesy
- SU 4100 (3) Geodetic Positioning
- SU 4140 (3) Photogrammetry
- SU 4999 (1) Professional Practice Review
- Engineering Elective (3)
- PE

Spring 4 (16-17)
- Gen Ed (3) * Distribution
- SU 4010 (3) Geospatial Concepts, Technologies And Data
- SU 4900 (3) Capstone Design Project
- SU 4180 (3) Land Subdivision Design
- Technical Elective (4-5)
- PE

Electives

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)
(ENG 2120 & ENG 3200 & GE 2100)
Soil Mechanics for Engineers

CH 1153 - 1 (Science)
(CH 1150(C))
University Chemistry Recitation I

ENT XXXX - variable 1-4
Enterprise Project Work

ENG 2120 - 4
(MA 2160 & PH 2100 & ENG 1102)
Statics-Strength of Materials
--OR—
ENG 3200 - 4
(CH 1100 & MA 2160 & PH 2100 & ENG 1102)
Thermodynamics/Fluid Mechanics

ENT XXXX - variable 1-5
Enterprise Project Work

FW 2010 - 4 (Science)
Vegetation of North America

GE 2000 - 3 (Science)
Understanding the Earth

PH 1200/PH 2200 - 4 (Science)
(PH 1100 & PH 2100 & MA 2160)
Physics by Inquiry II / Univ. Physics II

PH 1600/PH1610 - 2-3 (Science)
Introductory Astronomy/Lab optional

SU 3560 - 3 (Engineering)
(PH 2200)
Geospatial Imaging Interpretation

SU 4996 - 1-3
Special Topics in Geospatial Tech

SU 4997 - 1-3
Independent Study in Geospatial Tech

SU 4998 - 1-6
Undergraduate Research in Geospatial Technologies

UN 3002 - 1-2
Undergraduate Cooperative Education Laboratory

See Enterprise Minor:
http://www.admin.mtu.edu/em/students/graduation/audit/200808/entm.pdf

http://www.mtu.edu/registrar/pdfs/HASS-Distribution-List.pdf (requirements for new students starting after August 2008)

This document is to be used as reference only—information found in the University Catalog should be used for final course selection and decisions. O:\academic services\SE\2011-12 SE Flowchart (Rev. 03/18/11)