

MichiganTech School of Technology

Academic Planning Sheet

2008-09

Surveying Engineering

For your planning convenience, this form is also available on-line at: <http://www.tech.mtu.edu/academic.htm>

Math - Required

Total: 17-18

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
MA 1160 OR	Calculus with Technology I OR	MA 1031 or MA 1032	f/s/su			4 (0-4-0) OR
MA 1161	Calculus Plus with Technology I	MA 1031 or MA 1032	f/s			5 (0-5-0)
MA 2160	Calculus with Technology II	MA 1160 or MA 1161	f/s/su			4 (0-4-0)
MA 2320	Elementary Linear Algebra	MA 1160 or MA 1161	f/s/su			2 (0-2-0)
MA 3160	Multivariable Calculus with Technology	MA 2160	f/s/su			4 (0-4-0)
MA 3710	Engineering Statistics	MA 2160	f/s/su			3 (0-3-0)

Science - Required

Total: 22

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
CH 1100	General Chemistry		f/s/su			4 (3-0-3)
CS 1121	Introduction to Computer Science I	MA 1031(C) or MA 1032(C)	f/s/su			3 (0-2-2)
FW 2010	Vegetation of North America		f			4 (2-1-3)
GE 2000	Understanding the Earth		f/s/su			3 (2-0-3)
PH 1100	Physics by Inquiry I		f/s/su			1 (0-0-2)
PH 1200	Physics by Inquiry II	PH 1100	f/s/su			1 (0-0-2)
PH 2100	University Physics I – Mechanics	MA 2160(C) & PH 1100(C)	f/s/su			3 (3-0-0)
PH 2200	University Physics II – Electricity and Magnetism	MA 2160 & PH 1200(C) & PH 2100	f/s/su			3 (3-0-0)

General Education - Required

Total: 13

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
UN 1001	Perspectives on Inquiry	FR	f/s/su			3 (0-3-0)
UN 1002 OR	World Cultures OR	FR	s/su			4 (3-0-3) OR
(UN 1003 & HU)	(World Cultures Activities AND 1 yr Foreign Language)	FR	s f/s			1 (0-0-2) 3 (0-3-0)
UN 2001	Revisions: Oral, Written, and Visual Communication	UN 1001 & (UN 1002 or UN 1003) / FR,SO	f/s/su			3 (0-3-0)
UN 2002	Institutions	SO	f/s/su			3 (3-0-0)

General Education - Distribution Courses (Choose from distribution list - Consult with your advisor)

View course choices: http://www.admin.mtu.edu/em/students/plan/dist_courses.pdf

Total: 15

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
HU 3120	Technical and Scientific Communication	UN 1002 or UN 1003 / JR,SR	f/s/su			3 (0-3-0)
						3
						3
						3
						3

NOTE: This worksheet is for planning purposes and does not supersede university catalog requirements.

Surveying Engineering Major - Required

Total: 57

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
BA 2330	Accounting I	SO,JR,SR	f/s/su			3 (3-0-0)
BA 2500	Business Law I		f/s/su			3 (3-0-0)
CMG 3200	Site Planning and Development	SU 2000 / JR,SR	s			4 (0-3-2)
EET 1411	Basic Electronics	MA 1030(C) or MA 1031(C) or MA 1032(C) or MA 1160(C) or MA 1161(C)	f/s			4 (0-3-2)
SU 1500	Data Collection Systems		f			1 (0-0-2)
SU 2000	Introduction to Surveying		f/s/su			2 (0-1-2)
SU 2150	Fundamentals of Surveying		f			4 (0-2-6)
SU 2220	Route and Construction Surveying	SU 2000 or SU 2150	s			3 (0-3-0)
SU 2260	Survey Computations	SU 2150	s			3 (0-3-0)
SU 3110	Surveying Field Practice	SU 2220 & SU 2260 / JR,SR	f			4 (0-2-6)
SU 3150	Principles of Geodesy	SU3250 / JR,SR	f			3 (0-3-0)
SU 3180	Boundary Surveying Principles	SU 2260 / JR,SR	f			3 (0-3-0)
SU 3250	Geodetic Adjustments Theory	MA 2320 & MA 3710 & MA 3160 & SU 3110 / JR,SR	f/s			3 (0-2-2)
SU 3540	Geospatial Information Technology with Elements of Field Cartography	MA 3710	s			4 (0-3-3)
SU 4100	Geodetic Positioning	SU 3150(C) / JR,SR	f			3 (0-2-3)
SU 4140	Photogrammetry	SU 3110 / JR,SR	f			3 (0-2-3)
SU 4180	Land Subdivision Design	CMG 3200 & SU 3180 / JR,SR	s			3 (0-2-1)
SU 4900	Capstone Project	Instructor Permission / SR	f/s			3 (0-2-2)
SU 4999	Professional Practice Seminar	JR,SR / <i>Pass/Fail</i>	f			1 (0-1-0)

Surveying Engineering Major - Technical Electives

Total: 5-6

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
SU 3560	Geospatial Imaging Interpretation	PH 2200	s			3 (0-2-2)

Total Credits Required:	130
Current Credit Total:	
Total Credits Needed:	

Co-curricular Activities (Courses may **NOT** be repeated)

View course choices: http://www.aux.mtu.edu/phys-ed/co-curricular_classes/co-curricular.htm

Unit Total: 3

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Units
						0.5
						0.5
						0.5
						0.5
						0.5
						0.5