

MichiganTech School of Technology

Academic Planning Sheet

2007-08

Surveying Engineering

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

Math - Required

Total: 13-14

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 or MA 1135 or MA 1140	f/s/su			4 (0-4-0)
MA 2320	Elementary Linear Algebra	MA 1160 or MA 1161 or MA 1140	f/s/su			2 (0-2-0)
MA 3710	Engineering Statistics	MA 2160	f/s/su			3 (0-3-0)

Science - Required

Total: 19

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
CH 1100	General Chemistry		f/s/su			4 (3-0-3)
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 or PH 1111 or PH 1141 or PH 1161	f/s/su			1 (0-0-2)
PH 2100	University Physics I – Mechanics	MA 1160 or MA 1161 & 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) or PH 2261(C) & PH 2100 or PH 1160	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: 63

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)
EE 3010	Circuits and Instrumentation	non-EEE & ECP	f/s/su			3 (2-0-2)
ENG 1101	Engineering Analysis and Problem Solving	MA 1160(C) or MA 1161(C) or MA 1140(C)	f/s/su			3 (0-0-5)
ENG 2120	Statics--Strength of Materials	MA 2160 & PH 2100 / non-EME & ECE	s			4 (0-4-0)
FW 3540	An Introduction to GIS for Natural Resource Management	MA 2720(C) or MA 2710(C) or MA 3710(C)	s			4 (3-0-3)
SU 1500	Data Collection Systems	Surveying majors only	f			1 (0-0-2)
SU 2000	Introduction to Surveying and GIS		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 and Regulations	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	MA 1140 or MA 1160 or MA 1161 & SU 3110(C) / JR, SR	f			3 (0-3-0)
SU 3180	Boundary Surveying Principles	SU 2260	f			3 (0-3-0)
SU 3250	Survey Measurements and Adjustments	MA 2320 or MA 2321 or MA 2330 & MA 2720 or MA 2710 or MA 3710 & SU 3110 / JR, SR	s			3 (0-2-2)
SU 4100	Geodetic Positioning	SU 3150 & SU 3250 / 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 or SU 3180 / JR, SR	s			3 (0-2-1)
SU 4900	Capstone Project	Instructor Permission / SR / Surveying majors only	f/s			3 (0-2-2)
SU 4999	Professional Practice Seminar (P/F)	JR, SR	f			1 (0-1-0)

Surveying Engineering Major - Technical Electives

Total: 7

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits

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

Revised 8/22/2007

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

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