

MichiganTech. School of Technology

Academic Planning Sheet 2006-07

Surveying Engineering

For your planning convenience this form is also available on-line at: [http:// www.tech.mtu.edu/academic.htm](http://www.tech.mtu.edu/academic.htm)

Math

Total 13-14

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
MA 1160 OR	Calculus with Technology I OR (ACT 29)	f/s/su			4
MA 1161	Calculus Plus with Technology I (ACT 26)	f			OR 5
MA 2160	Calculus with Technology I (MA 1160/61)	f/s/su			4
MA 2320	Elementary Linear Algebra	f/s/su			2
MA 3710	Engineering Statistics	f/s/su			3

Science

Total 19

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
CH 1100	General Chemistry	f/s/su			4
FW 2010	Vegetation of North America	f			4
GE 2100	Environmental Geology	f/s			3
PH 1100	Physics by Inquiry I	f/s/su			1
PH 1200	Physics by Inquiry II (PH 1100)	f/s/su			1
PH 2100	University Physics I – Mechanics (MA 2160-C & PH 1100-C)	f/s/su			3
PH 2200	University Physics II – Electricity & Magnetism (MA 2160 & PH 1200-C & PH 2100)	f/s/su			3

General Education - Required

Total 13

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
UN 1001	Perspectives	f/s/su			3
UN 1002 OR	World Cultures OR	s/su			4
UN 1003	AND Foreign Language	s			OR 4
UN 2001	Revisions (UN 1001 & UN 1002/03)	f/s/su			3
UN 2002	Institutions	f/s/su			3

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

Total 15

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

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
GE 2000	Understanding the Earth	f/s			3
					3
					3
					3
					3

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

Surveying Engineering Major - Required

Total 70-71

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
BA 2300	Accounting Principles I OR (So / Jr / Sr)	f/s/su			3
BA 2500	Business Law I	f/s/su			3
CE 3401	Transportation Engineering	f/s			3
CE 3620	Water Resources Engineering (ENG 3200 & MA 3710-C)	f/s			4
CE 3810	Soil Mechanics for Engineers (ENG 2120 & ENG 3200 & GE 2000)	f/s			4
ENG 1101	Engineering Analysis & Problem Solving (MA 1160/61)	f/s/su			3
ENG 2120	Statics and Strength of Materials (MA 2160 & PH 2100)	f/s			4
ENG 3200	Thermodynamics & Fluid Mechanics (CH 1100 & MA 2160 & PH 2100)	f/s			4
SU 2120	CAD for Surveying (TE 1110)	s			2
SU 2150	Fundamentals of Surveying	f			5
SU 2220	Route & Construction Surveying (SU 2150)	s			3
SU 2260	Surveying Computations & Regulations (SU 2120 & SU 2150)	s			3
SU 3110	Surveying Field Practice (SU 2220 & SU 2260)	f			4
SU 3150	Principles of Geodesy MA 1160/61 & SU 3110C)	f			3
SU 3180	Boundary Surveying Principles (SU 2260)	f			3
SU 3250	Survey Measurements & Adjustments (MA 2320 & MA 3710 & SU 3110)	s			3
SU 4100	Geodetic Positioning (SU 3150 & SU 3250)	f			3
SU 4140	Photogrammetry (SU 3110)	f			3
SU 4180	Land Subdivision Design (SU 3180)	s			3
SU 4220	Ethics & Professional Practice (SU 4180)	s			2
SU 4240 OR	Intro to Geographic & Land Information Systems (SU 3150 & SU 4140) OR	s			3
FW 3540	Intro to Geographic Information Systems for Resource Management (MA 3710)	s			OR 4
SU 4999	Professional Practice Seminar	s			1
TE 1110	Introduction to AutoCAD	f			2

Free Electives

Total 0

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
					0

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

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

Unit Total 3

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

Course Number	Title	Offered	Semester Taken	Grade	Units
					0.5
					0.5
					0.5
					0.5
					0.5
					0.5

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