S INDICATES COURSE IS OFFERED SPRING SEMESTER

Su INDICATES COURSE IS OFFERED SUMMER SEMESTER Total Acaden

(C) INDICATES THE COURSE CAN EITHER BE TAKEN AT THE SAME TIME (CO-REQ) OR

F, S, Su

F, S, Su

F, S, Su

(L) INDICATES A COURSE WHICH INCLUDES A LAB

MUST BE SCHEDULED IN ADDITION TO THE LECTURE

Total Academic Credits: 127
Total Co-Curricular Units: 3

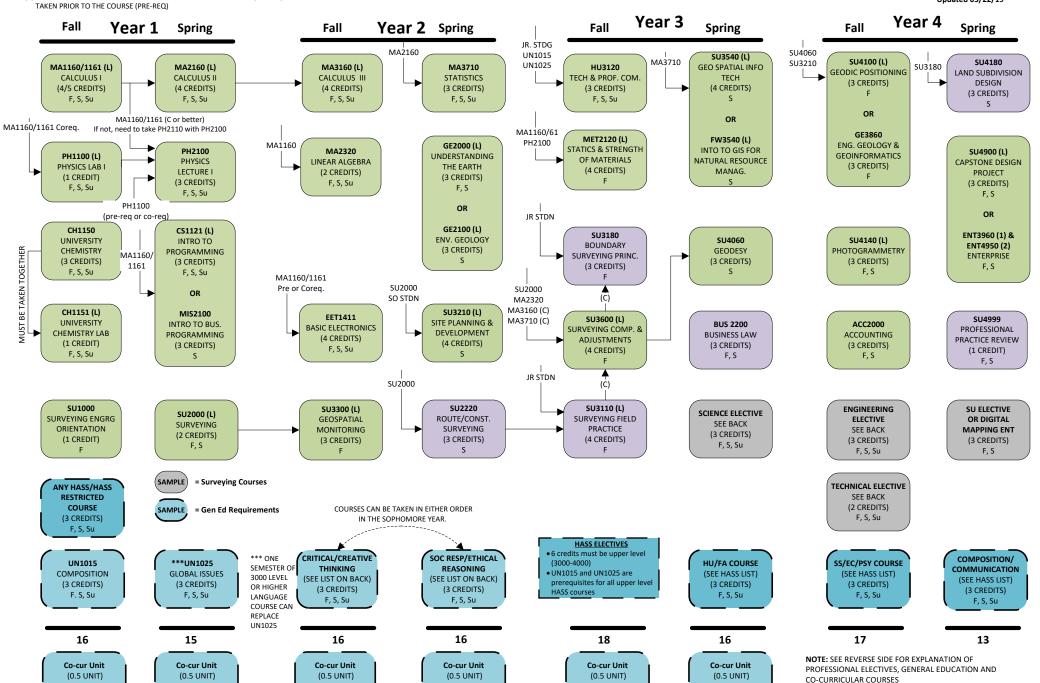
# SURVEYING ENGINEERING FLOWCHART Professional Surveying Emphasis Academic Year 2019-20



This is not an official list of degree requirements.

Adjustments may be required due to curriculum changes.

Updated 05/22/19



F, S, Su

F, S, Su

F, S, Su

(				
Engineering El	ective List (3 credits)			
CEE3101	Civil Engineering Materials (3 cr)	F, S		
CEE3332	Fundamentals of Construction (3 cr)	F, S		
CEE3401	Transportation Engineering (3 cr)	F, S		
CEE3810	Soil Mechanics (4 cr)	F, S		
Science Electiv	e List (3 credits)			
CH1153	Chemistry Recitation I (1 cr)	F, S, Su		
FW2010	Vegetation of North America (4 cr)	F		
PH1200/2200	Physics II (4 cr – 1 cr lab, 3 cr lecture)	F, S, Su		
PH1600/1610	Introductory Astronomy & Lab (3 cr – 1 cr lab, 2 cr lecture)	F, S, Su		
· ·	tive List (1-2 credits)			
CEE3331	Professional Practice (2 cr)	F, S		
ENG3200	Thermo/Fluids (4 cr)	F, S		
ENTXXXX	Enterprise (Except 3960/4950) (var)	F, S		
UN3002	Co-op (1-2 cr)	F, S, Su		
Surveying Elective List (3 credits)				
SU4010	Geospatial Concepts, Technologies, and Data (3 cr)	Spring		
SU4011	Cadastre and Land Information Systems (3 cr)	Fall (alt)		
SU4012	Geospatial Data Mining and Crowd Sourcing (3 cr)	Spring (alt)		
SU4013	Hydrographic Mapping (3 cr)	Spring		
SU4142	3D Surveying and Modeling w/ Laser Scanner Data (3 cr)	On Demand		
SU4996	Special Topics in Geospatial Technologies (var)	On Demand		
SU4997	Independent Study in Geospatial Technologies (var)	On Demand		
SU4998	Undergrad Research in Geospatial Technologies (var)	On Demand		
l				

# **UNDERGRADUATE CATALOG:**

http://www.mtu.edu/catalog/courses/

# **GENERAL EDUCATION (CO-CURRICULAR & HASS LIST):**

https://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/

# **GENERAL EDUCATION REQUIREMENTS**

A. CORE COURSES (12 CREDITS)
1. UN1015 (COMPOSITION)
2. <b>UN1025</b> (GLOBAL ISSUES)
3. CRITICAL AND CREATIVE THINKING
FA2330, FA2520, FA2720, FA2820, HU2130, HU2324, HU2501, HU2503, HU2538, HU2700, HU2820, HU2910, SS2300
4. SOCIAL RESP. & ETHICAL REASONING
EC2001, ED2000, PSY2000, SS2100, SS2200, SS2400, SS2500, SS2501, SS2502, SS2503, SS2504, SS2505, SS2600, SS2610, SS2700
B. HASS COURSES (12 CREDITS) (General Ed Website, left)
1. COMMUNICATION/COMP:
2. HU OR FA COURSE:
3. SS OR EC OR PSY COURSE:
4. ANY HASS OR HASS RESTRICTED COURSE:
<ul> <li>6 credits must be upper division 3000-4000 level courses</li> <li>No more than 3 credits from the HASS Restricted list can be used to satisfy HASS requirements.</li> <li>Each course can satisfy only one requirement.</li> </ul>
C. CO-CURRICULAR ACTIVITIES (3 UNITS) (General Ed Website, left)
PE/FA/AR/AF       PE/FA/AR/AF         PE/FA/AR/AF       PE/FA/AR/AF         PE/FA/AR/AF       PE/FA/AR/AF

#### S INDICATES COURSE IS OFFERED SPRING SEMESTER

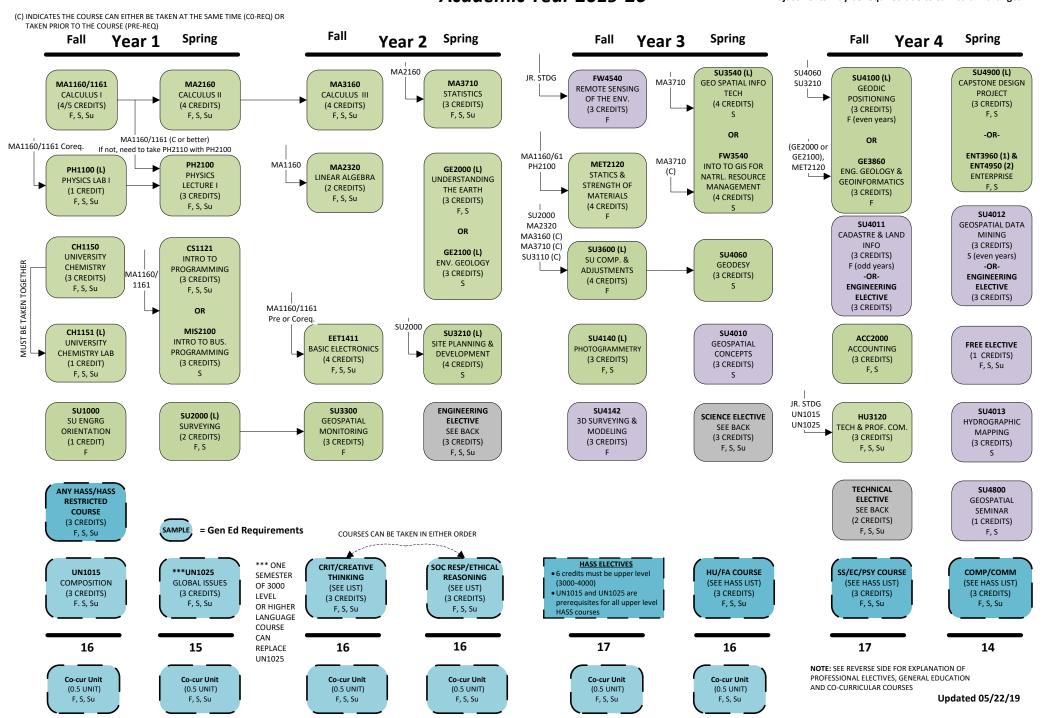
#### Su INDICATES COURSE IS OFFERED SUMMER SEMESTER

(L) INDICATES A COURSE WHICH INCLUDES A LAB MUST BE SCHEDULED IN ADDITION TO THE LECTURE

### SURVEYING ENGINEERING FLOWCHART **Geoinformatics Emphasis** Total Academic Credits: 127 Total Co-Curricular Units: 3 Academic Year 2019-20



This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.



<b>Engineering El</b>	ective List (3 credits)			
CEE3101	Civil Engineering Materials (3 cr)	F, S		
CEE3332	Fundamentals of Construction (3 cr)	F, S		
CEE3401	Transportation Engineering (3 cr)	F, S		
CEE3810	Soil Mechanics (4 cr)	F, S		
Science Electiv	<u>re List (3 credits)</u>			
CH1153	Chemistry Recitation I (1 cr)	F, S, Su		
FW2010	Vegetation of North America (4 cr)	F		
PH1200/2200	Physics II (4 cr – 1 cr lab, 3 cr lecture)	F, S, Su		
PH1600/1610	Introductory Astronomy & Lab (3 cr – 1 cr lab, 2 cr lecture)	F, S, Su		
Technical Elective List (1-2 credits)				
CEE3331	Professional Practice (2 cr)	F, S		
ENG3200	Thermo/Fluids (4 cr)	F, S		
ENTXXXX	Enterprise (Except 3960/4950) (var)	F, S		
UN3002	Co-op (1-2 cr)	F, S, Su		

# **UNDERGRADUATE CATALOG:**

http://www.mtu.edu/catalog/courses/

# **GENERAL EDUCATION (CO-CURRICULAR & HASS LIST):**

https://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/

# **GENERAL EDUCATION REQUIREMENTS**

A. CORE COURSES (12 CREDITS)
1. UN1015 (COMPOSITION)
2. <b>UN1025</b> (GLOBAL ISSUES)
3. CRITICAL AND CREATIVE THINKING
FA2330, FA2520, FA2720, FA2820, HU2130, HU2324, HU2501, HU2503, HU2538 HU2700, HU2820, HU2910, SS2300
4. SOCIAL RESP. & ETHICAL REASONING
EC2001, ED2000, PSY2000, SS2100, SS2200, SS2400, SS2500, SS2501, SS2502, SS2503, SS2504, SS2505, SS2600, SS2610, SS2700
B. HASS COURSES (12 CREDITS) (General Ed Website, left)
1. COMMUNICATION/COMP:
2. HU OR FA COURSE:
3. SOCIAL & BEHAVIORAL STUDIES COURSE:
4. ANY HASS OR HASS RESTRICTED COURSE:
<ul> <li>6 credits must be upper division 3000-4000 level courses</li> <li>No more than 3 credits from the HASS Restricted list can be used to satisfy HASS requirements.</li> <li>Each course can satisfy only one requirement.</li> </ul>
C. CO-CURRICULAR ACTIVITIES (3 UNITS) (General Ed Website, left)
PE/FA/AR/AF       PE/FA/AR/AF         PE/FA/AR/AF       PE/FA/AR/AF         PE/FA/AR/AF       PE/FA/AR/AF