

F INDICATES COURSE IS OFFERED FALL SEMESTER

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

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

Total Academic Credits: 127

Total Co-Curricular Units: 3

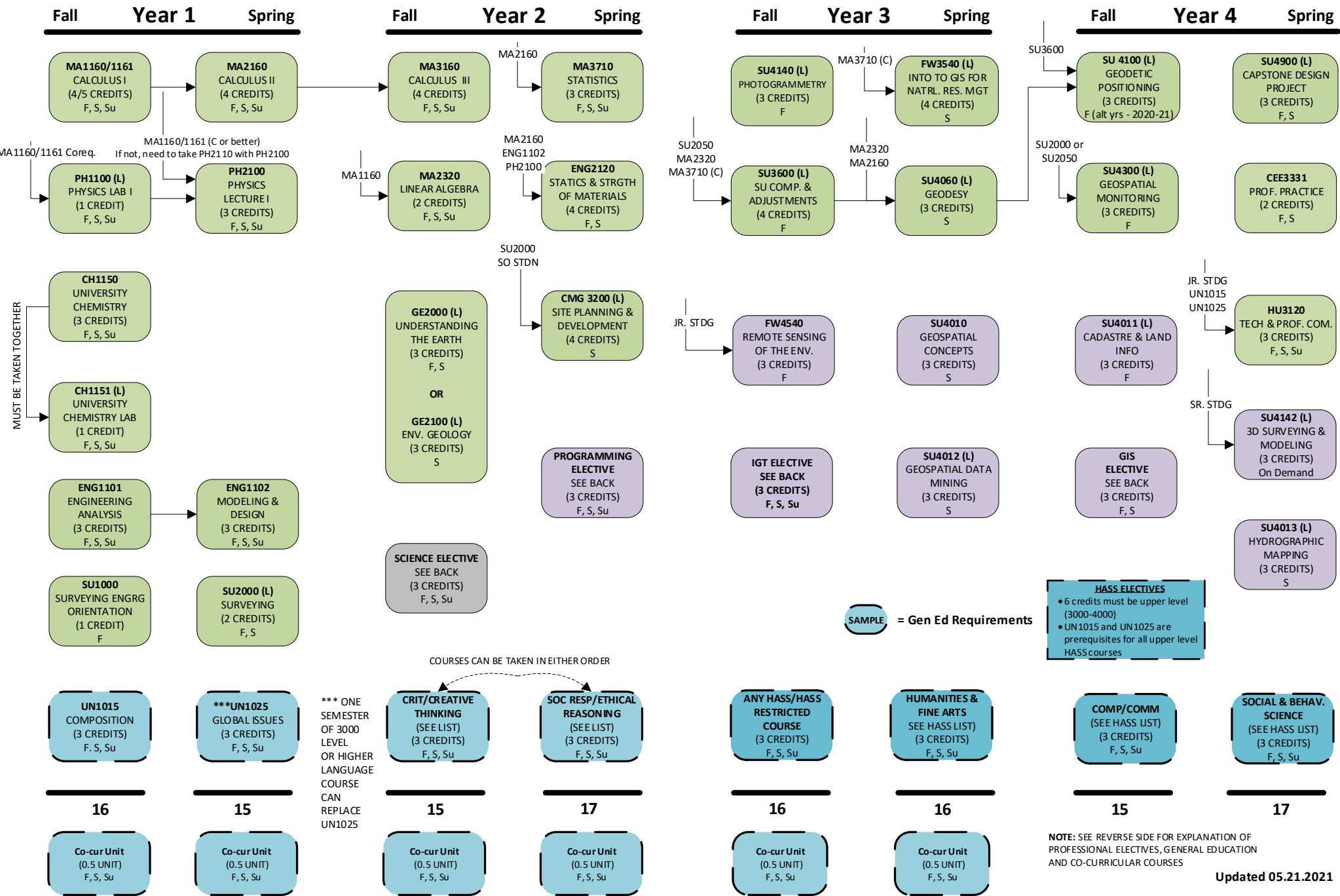
# GEOSPATIAL ENGINEERING FLOWCHART

## Geoinformatics Path

### Academic Year 2021-22



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



NOTE: SEE REVERSE SIDE FOR EXPLANATION OF PROFESSIONAL ELECTIVES, GENERAL EDUCATION AND CO-CURRICULAR COURSES

Updated 05.21.2021

**IGT Elective List (3 credits)**

CMG1200	Intro to BIM (3 cr)	S
EE4777	Distributed Additive Manufacturing (3 cr)	F
UN5550	Intro to Data Science (3 cr)	F

**GIS Elective List (3 credits)**

SS2050	Fundamentals of GIS and Technologies (3 cr)	F
SS4050	Advanced GIS Methods and Projects (3 cr)	F (alt yrs)

**Programming Elective List (3 credits)**

CS1121	Intro to Programming I (3 cr)	F, S, Su
CS1131	Accelerated Intro to Programming (5 cr)	F
FW5553	Python Programming w/ ArcMap GIS (3 cr)	F
SU4601	R for Geoscience (3 cr)	On Demand

**Science Elective List (3 credits)**

BL2001	Valuing the Great Lakes (3 cr)	F
BL2160	Botany (4 cr)	S
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
GE3850	Geohydrology (3 cr)	

**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. **UN1025** (GLOBAL ISSUES) or 3000+ level Modern Language Course

**3. CRITICAL AND CREATIVE THINKING**

ART1000, HU2130, HU2324, HU2501, HU2503, HU2538, HU2700, HU2820, HU2910, MUS1000, SND1000, SS2300, THEA1000

**4. SOCIAL RESP. & ETHICAL REASONING**

EC2001, PSY2000, SS2100, SS2200, SS2400, SS2500, SS2501, SS2502, SS2503, SS2504, SS2505, SS2600, SS2610, SS2700

**B. HASS COURSES (12 CREDITS)**

**(General Ed Website, left)**

1. COMM/COMP: \_\_\_\_\_
2. HUMANITIES & FINE ARTS: \_\_\_\_\_
3. SOCIAL & BEHAVIORAL SCIENCES: \_\_\_\_\_
4. ANY HASS OR HASS RESTRICTED COURSE: \_\_\_\_\_

- 6 credits must be upper division 3000-4000 level courses
- No more than 3 credits from the HASS Restricted list can be used to satisfy HASS requirements.
- Each course can satisfy only one requirement.

**C. CO-CURRICULAR ACTIVITIES (3 UNITS)**

**(General Ed Website, left)**

- |          |          |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | 6. _____ |