



A Major Academic Plan (MAP) is one way to complete a degree in a set number of semesters. The *example* below is only one strategy. Actual plans for individual students will vary based on advisor recommendations and academic needs. Official Program Requirements including Major, General Education, Electives, and university requirements (see pg.2) are based on Catalog Year.

Course Subject and Title	Cr.	Min. Grade	*GE, UU or UM	**Sem. Offered	Prerequisite	Co-Requisite
Semester One						
GE Objective 1: ENGL 1101 Writing and Rhetoric I	3	C-	GE		Appropriate placement score	
CET 0110 Applied Mathematics I (*For alternate see Advisor) or MATH 1143 College Algebra	3	C-		F		
CET 0111: Drawing with CAD	3	C-		F		
CET 0112: Beginning Surveying	3	C-		F		
CET 0115A: Materials Testing I OR CET 0113: Civil and Geomatics Engineering Technology I	4 2	C-		F F		
Total	14-16					
Semester Two						
GE Objective 2: COMM 1101 Fundamentals of Oral Communication	3		GE	F, S		
CET 0120: Applied Mathematics II (*For alternate see Advisor) or MATH 1144 Trigonometry	2-3	C-		S	CET 0110 Or MATH 1143	
CET 0121: Civil Engineering Technology Drafting	3	C-		S	CET 0111/GEMT 1111	
CET 0122 Intermediate Surveying and Spatial Analysis	3	C-		S	CET 0112/GEMT 1112	
CET 0125A: Materials Testing II OR CET 0123: Civil and Geomatics Engineering Technology II	4 2	C-		S	CET 0115A	
Total	13-16					
Semester Three						
GE Objective 5: PHYS 1101/L Element of Physics & Lab	4		GE	F, S		
CET 0216: Route Survey and GPS Fundamentals	3	C-		F	CET 0122	
CET 0228: Principles of GIS	3	C-		S	CET 0120	
CET 0232: Plan Reading and Worksite Safety	3	C-		F		
GEMT 2231 Survey Computations	3	C-		F		
Total	16					
Semester Four						
GE Objective 3: MATH 1153 Statistical Reasoning	3	C-	GE		MATH 1108	
GE Objective 6: ECON 1100 OR ECON 2201 OR ECON 2202	3	C-	GE			
CET 0226: Construction Surveying	3	C-		S	CET 0216	
CET 0243: Public Works	3	C-		S		
CET 0250: Unmanned Aerial Systems/Imagery Analysis	3	C-		S		
CET 0251: Introduction to Legal Descriptions	1	C-		S		
GEMT 3312: Public Land Surveying	3	C-		S	CET 0122	
Total	19					
Semester Five						
GE Objective 3: MATH 1170: Calculus I OR RCET 0264: Introductory Calculus	4	C-		F, S	MATH 1144 or 1147 RCET 0142 or equivalent	
GE Objective 1: ENGL 1102 Writing and Rhetoric II	3		GE	S		
GEMT 3311: Advanced Surveying	3	C-		F	CET 0226/GEMT 2226 or instructor permission	
GEMT 4430: GPS Principles and Application	3	C-		F	CET 0226/GEMT 2226 or instructor permission	
GEMT 3313: Surveying Software Applications	2	C-		F	CET 0226/GEMT 2226 or instructor permission	
GEMT 3317: Subdivision Planning and Platting	2	C-		F	GEMT 2226	GEMT 3313
Total	17					

Semester Six						
GE Objective 3: MATH 1175: Calculus II OR RCET 1372: Calculus for Advanced Electronics	4	C-		F, S	MATH 1170 See advisor	
GE Objective 7: HIST 1118: US History and Culture	3		GE	F, S		
GEMT 3310: Boundary Surveying Law	3	C-		S	GEMT Jr status or instructor permission	
GEMT 3314: Research and Evidence in Surveying	3	C-		S	CET 0226/GEMT 2226	
GEMT 4411: Geodesy	3	C-		S	GEMT 3311 or instructor permission	
GEMT 4415: Survey Office Practice	3	C-		S	Sr status or instructor permission	
Total	19					
Semester Seven						
GE Objective 6: Choose one class (Not ECON)	3		GE	F, S		
ENGL 3307: Professional and Technical Writing	3			F, S	45 credits & ENGL 1102	
GE Objective 4: PHIL 1103: Intro to Ethics	3		GE	F, S		
GEMT 4416: Surveying Project	3	C-		D	Sr status or instructor permission	
GEMT 3319: Writing Legal Descriptions	1	C-		F	Permission of Instructor	
GEMT 3315: Surveying Adjustments and Coordinate Systems	3	C-		S	MATH 1170, MATH 1153 and CET 0226.	
GEMT 4432: Principles of Photogrammetry OR GEOL 4409: Remote Sensing	3	C-		F	CET 0226/GEMT2226 or instructor permission Computer operation systems competency	
Total	19					
Semester Eight						
GE Objective 4: Min of 3 credits (Fine Arts or Foreign Language)	3		GE			
GE Objective 5: Choose one class that satisfies this objective	3		GE			
GE Objective 9: Choose one class that satisfies this objective	3		GE			
GEMT 4400: Essentials of Surveying	2	C-		F, S	Sr status or instructor permission	
GEMT 4425: Principles of Cartography OR GEOL 4427: Information Technology for GIS OR GEOL 4404: Advanced Geographic Information System	3	C-		S D S	GEMT Jr status or instructor permission GEOL 4403 & L or instructor permission	
Total	14					
*GE=General Education Objective, UU=Upper Division University, UM= Upper Division Major **See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.)						

2022-2023 Major Requirements		CR	GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9	36 cr. min
MAJOR REQUIREMENTS		94-96	1. Written English (6 cr. min) ENGL 1101	3
CET 0111: Drawing with CAD		3	ENGL 1102	3
CET 0112: Beginning Surveying		3	2. Spoken English (3 cr. min) COMM 1101	3
CET 0121: Civil Engineering Technology Drafting		3	3. Mathematics (3 cr. min) MATH 1153	3
CET 0122 Intermediate Surveying and Spatial Analysis		3	4. Humanities, Fine Arts, Foreign Lang. (2 courses; 2 categories; 6 cr. min)	
CET 0216: Route Survey and GPS Fundamentals		3	PHIL 1103	3
CET 0232: Plan Reading and Worksite Safety		3	Choose Additional Class	3
CET 0243: Public Works		3	5. Natural Sciences (2 lectures-different course prefixes, 1 lab; 7 cr. min)	
CET 0250: Unmanned Aerial Systems/Imagery Analysis		3	PHYS 1101/L	4
CET 0226: Construction Surveying		3	Choose Additional Class	3
CET 0228: Principles of GIS		3		
CET 0251: Introduction to Legal Descriptions		1	6. Behavioral and Social Science (2 courses-different prefixes; 6 cr. min)	
GEMT 3310: Boundary Surveying Law		3	ECON 1100, 2201, or 2202	3
GEMT 3311: Advanced Surveying		3	Choose Additional Class	3
GEMT 3312: Public Land Surveying		3	One Course from EITHER Objective 7 OR 8 (1course; 3 cr. min)	
GEMT 3313: Surveying Software Applications		2	7. HIST 1118	3
GEMT 3314: Research and Evidence in Surveying		3	8. Information Literacy	
GEMT 3315: Surveying Adjustments and Coordinate Systems		3	9. Cultural Diversity (1 course; 3 cr. min)	
GEMT 3317: Subdivision Planning and Platting		2		
GEMT 3319: Writing Legal Descriptions		1	General Education Elective to reach 36 cr. min. (if necessary)	
GEMT 4400: Essentials of Surveying		2		3
GEMT 4411: Geodesy		3	Total GE	37
GEMT 4415: Survey Office Practice		3	Undergraduate Catalog and GE Objectives by Catalog Year	
GEMT 4416: Surveying Project		3	http://coursecat.isu.edu/undergraduate/programs/	
GEMT 4430: GPS Principles and Application		3		
GEMT 4425: Principles of Cartography OR GEOL 4427: Information Technology for GIS OR GEOL 4404: Advanced Geographic Information System		3		
GEMT 4432: Principles of Photogrammetry OR GEOL 4409: Remote Sensing		3		
ENGL 3307: Professional and Technical Writing		3	MAP Credit Summary	CR
MATH 1170 Calculus I OR RCET 0264 Introductory Calculus		4	Major	93-96
MATH 1175: Calculus II OR RCET 1372: Calculus for Electronics		4	General Education	37
PHYS 1101/1101L (Counted in GE 5)			Upper Division Free Electives to reach 36 credits	0
HIST 1118 (Counted in GE 7)			Free Electives to reach 120 credits	0
PHIL 1103 (Counted in GE 4)			TOTAL	130-133
Complete the following two courses:	7-8			
CET 0115A: Materials Testing and Specifications I and	4			
CET 0125A: Materials Testing and Specifications II	4			
OR the following three courses:				
CET 0113: Civil and Geomatics Engineering Technology I and	2		Graduation Requirement Minimum Credit Checklist	Confirmed
CET 0123: Civil and Geomatics Engineering Technology II and	2		Minimum 36 cr. General Education Objectives (15 cr. AAS)	X
GEMT 2231: Survey Computations	3		Minimum 15 cr. Upper Division in Major (0 cr. Associate)	X
Complete the following two courses:	5-6		Minimum 36 cr. Upper Division Overall (0 cr. Associate)	X
CET 0110: Applied Mathematics I	3		Minimum of 120 cr. Total (60 cr. Associate)	X
CET 0120: Applied Mathematics II	3			
OR complete the following course:				
MATH 1147: College Algebra and Trig (*prereq: MATH 1108)	5		<i>Date</i>	
Advising Notes				
			CAA or COT:	PJ 05/16/2022
			Complete College American Momentum Year	
			Math and English course in first year-Specific GE MATH course identified	
			9 credits in the Major area in first year	
			15 credits each semester (or 30 in academic year)	
			Milestone courses	