

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	F, S, Su	Appropriate placement score	
MATH 1143: Precalculus I: Algebra	3	C-		F, S	Appropriate placement score	
CET 1111: Beginning CAD	3	C-		F, S	Minimum score of ALEKS 30 or equivalent	
CET 1112: Beginning Surveying	3	C-		F, S		MATH 1143
CET 1115A: Materials Testing I OR CET 1113: Civil and Geomatics Engineering Technology I	4 2	C-		F F, S		
Total	14-16					
Semester Two						
GE Objective 2: COMM 1101 Fundamentals of Oral Comm	3	C-	GE	F, S		
MATH 1144: Precalculus II: Trigonometry	2	C-	GE	F, S, Su	MATH 1143	
CET 1121: Civil 3D Drafting	3	C-		F, S	CET 1111	
CET 1122: Intermediate Surveying and Spatial Analysis	3	C-		F, S	CET 1112	
CET 1125A: Materials Testing II OR CET 1123: Civil and Geomatics Engineering Technology II	4 2	C-		S F, S	CET 1115A CET 1113	
Total	13-15					
Semester Three						
GE Objective 5: PHYS 1101 Elements of Physics	3	C-	GE	F, S	MATH 1108 or equivalent	PHYS 1101L
GE Objective 5: PHYS 1101I Elements of Physics Lab	1	C-	GE	F, S	MATH 1108 or equivalent	PHYS 1101
CET 2216: Route Survey and GPS Fundamentals	3	C-		F	CET 1121, 1122	
CET 2228: Principles of GIS	3	C-		F, S	CET 1122 or instructor approval	
CET 2232: Plan Reading and Worksite Safety	3	C-		F, S		
None OR CET 2215: Materials Theory	0 3	C-		F, S		
Total	13-16					
Semester Four						
GE Objective 3: MATH 1153 Statistical Reasoning	3	C-	GE	F, S, Su	MATH 1108 or appropriate placement score	
GE Objective 6: Any	3	C-	GE			
CET 2226: Construction Surveying	3	C-		F, S	CET 2216	
CET 2243: Public Works	3	C-		F, S	MATH 1143, 1144	
CET 2250: Unmanned Aerial Systems/Imagery Analysis	3	C-		F, S	CET 1112	
CET 2251: Introduction to Legal Descriptions	1	C-		F, S		
GEMT 3312: Public Land Surveying	3	C-	UM	F, S	MATH 1143, 1144, CET 1122	
Total	19					
Semester Five						
GE Objective 1: ENGL 1102 Writing and Rhetoric II	3	C-	GE	F, S, Su	ENGL 1101 or ENGL1101P	
MATH 1170: Calculus I	4	C-		F, S, Su	MATH 1144 or MATH 1147 or appropriate placement score	
GEMT 3311: Advanced Surveying	3	C-	UM	F	MATH 1143, 1144, CET 1122	
GEMT 4430: GPS Principles and Applications	3	C-	UM	F	MATH 1143, 1144, CET 1122	
GEMT 3313: Surveying Software Applications	2	C-	UM	F	MATH 1143, 1144, CET 1122	
GEMT 3317: Subdivision Planning and Platting	2	C-	UM	F, S	MATH 1143, 1144, CET 1122	
Total	17					

*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.)

Course Subject and Title	Cr.	Min. Grade	*GE, UU or UM	**Sem. Offered	Prerequisite	Co-Requisite
Semester Six						
GE Objective 7: US History and Culture	3	C-	GE	F, S, Su		
MATH 1175: Calculus II	4	C-		F, S, Su	MATH 1170	
GEMT 3310: Boundary Control and Legal Principles	3	C-	UM	F, S	MATH 1143, 1144, CET 1122	
GEMT 3314: Research and Evidence in Surveying	3	C-	UM	F, S	MATH 1143, 1144, CET 1122	
GEMT 4411: Geodesy	3	C-	UM	S	MATH 1143, 1144, CET 1122	
GEMT 4415: Survey Office Practice	3	C-	UM	S	MATH 1143, 1144, CET 1122	
Total	19					
Semester Seven						
GE Objective 6: TGE 1150 Social Sciences in the Workplace (Recommended)	3	C-	GE	F, S		
GE Objective 4: PHIL 1103 Introduction to Ethics	3	C-	GE	F, S, Su		
ENGL 3307: Professional and Technical Writing	3	C-	UU	F, S	ENGL 1102	
GEMT 4416: Surveying Project	2	C-	UM	D	Senior standing or permission	
GEMT 3319: Writing Legal Descriptions	1	C-	UM	F, S	MATH 1143, 1144, CET 1122	
GEMT 3315: Surveying Adjustments	3	C-	UM	S	MATH 1170, 1153, CET 2226	
GEMT 4432: Principles of Photogrammetry OR GEMT 4409: Remote Sensing	3	C-	UM	S D	MATH 1143, 1144, CET 1122 Competency in computer operating systems	
Total	18					
Semester Eight						
GE Objective 4: Minimum of 3 credits in fine arts or foreign language	3	C-	GE			
GE Objective 5: Minimum of 3 credits not in PHYS	3	C-	GE			
GE Objective 9: Any	3	C-	GE			
GEMT 4400: Essentials of Surveying	2	C-	UM	F, S	Senior standing, ACAD CERT completion, or permission	
GEMT 4425: Principles of Cartography OR GEOL 4404: Advanced Geographic Information Systems OR GEOL 4427: Information Technology for GIS	3	C-	UU	S F, S S	MATH 1143, 1144, CET 1122, 2228 GEOL 4403/L or permission GEOL 4403/L or 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.)						

2024-2025 Major Requirements	CR	GENERAL EDUCATION OBJECTIVES		36 cr. min
		Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9		
MAJOR REQUIREMENTS	93-94	1. Written English (6 cr. min)	ENGL 1101	3
CET 1111: Beginning CAD	3		ENGL 1102	3
CET 1112: Beginning Surveying	3	2. Spoken English (3 cr. min)	COMM 1101	3
CET 1121: Civil 3D Drafting	3	3. Mathematics (3 cr. min)	MATH 1153	3
CET 1122: Intermediate Surveying and Spatial Analysis	3	4. Humanities, Fine Arts, Foreign Lang. (2 courses; 2 categories; 6 cr. min)		
CET 2216: Route Survey and GPS Fundamentals	3	PHIL 1103		3
CET 2226: Construction Surveying	3	Fine Arts or Foreign Language		3
CET 2228: Principles of GIS	3	5. Natural Sciences (2 lectures-different course prefixes, 1 lab; 7 cr. min)		
CET 2232: Plan Reading and Worksite Safety	3	PHYS 1101		3
CET 2243: Public Works	3	PHYS 1101L		1
CET 2250: Unmanned Aerial Systems/Imagery Analysis	3	Elective that's not PHYS		3
CET 2251: Introduction to Legal Descriptions	1	6. Behavioral and Social Science (2 courses-different prefixes; 6 cr. min)		
ENGL 3307: Professional and Technical Writing	3	Any		3
GEMT 3310: Boundary Control and Legal Principles	3	Any of a different prefix than first		3
GEMT 3311: Advanced Surveying	3	One Course from EITHER Objective 7 OR 8 (1course; 3 cr. min)		
GEMT 3312: Public Land Surveying	3	7. Critical Thinking		3
GEMT 3313: Surveying Software Applications	2	8. Information Literacy		
GEMT 3314: Research and Evidence in Surveying	3	9. Cultural Diversity (1 course; 3 cr. min)		
GEMT 3315: Surveying Adjustments	3	Any		3
GEMT 3317: Subdivision Planning and Platting	2	General Education Elective to reach 36 cr. min. (if necessary)		
GEMT 3319: Writing Legal Descriptions	1			
GEMT 4400: Essentials of Surveying	2	Total GE		37
GEMT 4411: Geodesy	3	Undergraduate Catalog and GE Objectives by Catalog Year		
GEMT 4415: Survey Office Practice	3	http://coursecat.isu.edu/undergraduate/programs/		
GEMT 4416: Surveying Project	2			
GEMT 4430: GPS Principles and Applications	3			
MATH 1170: Calculus I	4			
MATH 1175: Calculus II	4	MAP Credit Summary		CR
Choose ONE of the following:	3	Major		93-94
GEMT 4425: Principles of Cartography		General Education		37
GEOL 4404: Advanced Geographic Information Systems		Upper Division Free Electives to reach 36 credits		0
GEOL 4427: Information Technology for GIS		Free Electives to reach 120 credits		0
Choose ONE of the following:	3	TOTAL		130-131
GEMT 4432: Principles of Photogrammetry				
GEOL 4409: Remote Sensing				
Complete the following two courses:	7-8			
CET 1115A: Materials Testing I	4			
CET 1125A: Materials Testing II	4	Graduation Requirement Minimum Credit Checklist		Confirmed
OR the following three courses:		Minimum 36 cr. General Education Objectives (15 cr. AAS)		X
CET 1113: Civil and Geomatics Engineering Technology I	2	Minimum 15 cr. Upper Division in Major (0 cr. Associate)		X
CET 1123: Civil and Geomatics Engineering Technology II	2	Minimum 36 cr. Upper Division Overall (0 cr. Associate)		X
CET 2215: Materials Theory	3	Minimum of 120 cr. Total (60 cr. Associate)		X
Complete the following two courses:	5			
MATH 1143: Precalculus I: Algebra	3	MAP Completion Status (for internal use only)		
MATH 1144: Precalculus II: Trigonometry	2		Date	
OR the following course:				
MATH 1147: Precalculus	5	CAA or COT:	EA 07/17/2024	
Advising Notes				
We do accept other related degrees to satisfy the first part (CET) of The 2+2 BS degree. However, if the transfer degree is recognized as a substitute for the first part of the 2+2 degree, there may be prerequisite courses from the CET degree that need to be taken prior to participation in the BS degree.		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		