

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
Program Requirement						
Completion of an AAS in Energy Systems Instrumentation Engineering Technology, Energy Systems Electrical Engineering Technology, Energy Systems Mechanical Engineering Technology, Energy Systems Nuclear Operations Technology, or Industrial Cybersecurity Engineering Technology	38					
Total	38					
Semester Five						
GE Objective 1: ENGL 1102 Writing and Rhetoric II	3	D-	GE	F, S, Su	ENGL 1101 or equivalent	
GE Objective 3: MGT 2216 Business Statistics	3	D-	GE	F, S	ENGL 1101/P and MATH 1108 or MGT 1116, OR TGE 1140	
CYBR 3383: Security Design for Cyber-Physical Systems	3	C-	UM	F, D	ESET 1181, 2223, 2227, 2282	ESET 1181, 2223, 2227, 2282
CYBR 3384: Risk Management for Cyber-Physical Systems	3	C-	UM	F, D	ESET 1181, 2223, 2227, 2282, CYBR 3383	ESET 1181, 2223, 2227, 2282, CYBR 3383
ESET 1181: Introduction to Cyber-Physical Systems	3	C-		F, D		
ESET 2282: Introduction to Networking	3	C-		F		
Total	18					
Semester Six						
CYBR 4481: Defending Critical Infrastructure and Cyber Physical Systems	3	C-	UM	S, D	CYBR 3383, 3384, ESET 2282, or instructor approval	
CYBR 4486: Network Security for Industrial Environments	3	C-	UM	S, D	CYBE 3383, ESET 2282, or instructor approval	
CYBR 4487: Professional Development and Certification	3	C-	UM	S, D	CYBR 3383, 3384, 4481, 4486	CYBR 3384, 4481, 4486
CYBR 4489: Capstone in Industrial Cybersecurity OR ESET 4497: Internship	3	C-	UM	F, S D	CYBR 4481, 4486 Instructor approval	CYBR 4481, 4486
ENGL 3307: Professional and Technical Writing	3	D-	UM	F, S	45 credits and ENGL 1102	
INFO 4411: Intermediate Information Assurance	3	D-	UM	D	INFO 1150, 3310, CS 1337, or instructor approval	
Total	18					
Semester Seven						
GE Objective 4: Any	3	D-	GE			
GE Objective 6: ECON 2201 Principles of Macroeconomics (recommended)	3	D-	GE	F, S, Su		
GE Objective 7: CS 1181 Computer Science and Programming I OR GE Objective 8: INFO 1101 Digital Information Literacy	3	D-	GE	F, S	CS 1181: MATH 1143 or 1144 or 1147 or CS 1111 AND MATH 1108 or MGT 1116	
BA 3316: Introduction to Data Analytics	3	D-	UM	F, S	MGT 2216, 2217	MGT 2217
MGT 2217: Applied Business Statistics	3	D-		F, S	MGT 2216 AND MATH 1108 or MGT 1116	
Total	15					
Semester Eight						
GE Objective 5: CHEM 1100 Concepts of Chemistry OR CHEM 1111/L General Chemistry I and Lab OR CHEM 1112/L General Chemistry II and Lab OR PHYS 1100 Essentials of Physics OR PHYS 1101/L Elements of Physics and Lab OR PHYS 1111/1113 General Physics I and Lab OR PHYS 1112/1114 General Physics II and Lab	4	D-	GE			
GE Objective 9: Any	3	D-	GE			
MGT 3312: Individual and Organizational Behavior	3	D-	UM	F, S	ENGL 1102 or HONS 1101	
MGT 3329: Operations and Supply Chain Management	3	D-	UM	F, S	MGT 2217, BA 3316	BA 3316
MGT 4482: Project Management	3	D-	UM	D	MGT 2216 or MATH 1153	
Total	16					
*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.)						

2025-2026 Major Requirements		CR	GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9	36 cr. min
MAJOR REQUIREMENTS		83	1. Written English (6 cr. min) AAS - ENGL 1101	3
Previous AAS in an ESTEC program		38	ENGL 1102	3
BA 3316: Introduction to Data Analytics		3	2. Spoken English (3 cr. min) AAS - COMM 1101	3
CYBR 3383: Security Design for Cyber-Physical Systems		3	3. Mathematics (3 cr. min) MGT 2216	3
CYBR 3384: Risk Management for Cyber-Physical Systems		3	4. Humanities, Fine Arts, Foreign Lang. (2 courses; 2 categories; 6 cr. min)	
CYBR 4481: Defending Critical Infrastructure and Cyber-Physical Systems		3	AAS	3
CYBR 4486: Network Security for Industrial Environments		3	Any	3
CYBR 4487: Professional Development and Certification		3	5. Natural Sciences (2 lectures-different course prefixes, 1 lab; 7 cr. min)	3-4
CYBR 4489: Capstone in Industrial Cybersecurity OR ESET 4497: Internship		3	AAS	4
ENGL 3307: Professional and Technical Writing		3	CHEM 1100 or 1111/L or 1112/L or PHYS 1100 or 1101/L or	
ESET 1181: Introduction to Cyber-Physical Systems		3	6. Behavioral and Social Science (2 courses-different prefixes; 6 cr. min)	
ESET 2282: Introduction to Networking		3	AAS	3
INFO 4411: Intermediate Information Assurance		3	ECON 2201: Principles of Macroeconomics (recommended)	3
MGT 2217: Applied Business Statistics		3	One Course from EITHER Objective 7 OR 8 (1course; 3 cr. min)	
MGT 3312: Individual and Organizational Behavior		3	7. Critical Thinking CS 1181 or Obj. 8	3
MGT 3329: Operations and Supply Chain Management		3	8. Information Literacy INFO 1101 or Obj. 7	
MGT 4482: Project Management		3	9. Cultural Diversity (1 course; 3 cr. min)	3
			Any	
			General Education Elective to reach 36 cr. min. (if necessary)	
MGT 2216: Business Statistics (counted in GE Obj. 3)			Total GE	37-38
CHEM 1100: Concepts of Chemistry OR CHEM 1111/L: General Chemistry I and Lab OR CHEM 1112/L: General Chemistry II and Lab OR PHYS 1100: Essentials of Physics OR PHYS 1101/L: Elements of Physics and Lab OR PHYS 1111/1113: General Physics I and Lab OR PHYS 1112/1114: General Physics II and Lab (counted in GE Obj. 5)			Undergraduate Catalog and GE Objectives by Catalog Year http://coursecat.isu.edu/undergraduate/programs/	
			MAP Credit Summary	CR
			Major	83
			General Education	37-38
			Upper Division Free Electives to reach 36 credits	0
			Free Electives to reach 120 credits	0
			TOTAL	120-121
			Graduation Requirement Minimum Credit Checklist	Confirmed
			Minimum 36 cr. General Education Objectives (15 cr. AAS)	X
			Minimum 15 cr. Upper Division in Major (0 cr. Associate)	X
			Minimum 36 cr. Upper Division Overall (0 cr. Associate)	X
			Minimum of 120 cr. Total (60 cr. Associate)	X
Advising Notes			MAP Completion Status (for internal use only)	
			Date	
			CAA or COT:	HW 06/13/2025
			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	