



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	53-54					
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 with a minimum grade of C-, or instructor approval	ESET 1181, 2223, 2227, 2282 with a minimum grade of C-, or instructor approval
CYBR 4410: Professional Foundations in Cybersecurity	3	C-	UM	D		
ESET 1181: Introduction to Cyber-Physical Systems	3	C-		F, D		
ESET 2282: Introduction to Networking	3	C-		F		
Total	18					
Semester Six						
CYBR 3384: Risk Management for Cyber-Physical Systems	3	C-	UM	F, D	ESET 1181, 2223, 2227, 2282, CYBR 3383 with a minimum grade of C-, or instructor approval	ESET 1181, 2223, 2227, 2282, CYBR 3383 with a minimum grade of C-, or instructor approval
CYBR 4481: Defending Critical Infrastructure and Cyber Physical Systems	3	C-	UM	S, D	CYBR 3383, 3384, ESET 2282 with a minimum grade of C-, or instructor approval	
CYBR 4486: Network Security for Industrial Environments	3	C-	UM	S, D	CYBE 3383, ESET 2282 with a minimum grade of C-, or instructor approval	
CYBR 4487: Professional Development and Certification	3	C-	UM	S, D	CYBR 3383, 3384, 4481, 4486 with a minimum grade of C-	CYBR 3384, 4481, 4486 with a minimum grade of C-
CYBR 4489: Capstone in Industrial Cybersecurity OR ESET 4497: Internship	3	C-	UM	F, S D	CYBR 4481, 4486 with a minimum grade of C- Instructor approval	CYBR 4481, 4486 with a minimum grade of C-
ENGL 3307: Professional and Technical Writing	3	D-	UM	F, S	45 credits and ENGL 1102	
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	MATH 1143 or 1144 or 1147 or CS 1111 AND MATH 1108 or MGT 1116	
*BA 3316: Introduction to Data Analytics OR INFO 4150: Information Systems and Controls	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					

Course Subject and Title	Cr.	Min. Grade	*GE, UU or UM	**Sem. Offered	Prerequisite	Co-Requisite
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	4-5	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 OR INFO 4380: Networking and Cybersecurity	3	D-	UM	F, S	MGT 2216, 2217	MGT 2217
MGT 4482: Project Management	3	D-	UM	D	MGT 2216 or MATH 2254	
Total	16-17					
*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.)						

2026-2027 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
CYBR 3383: Security Design for Cyber-Physical Systems		3	2. Spoken English (3 cr. min) AAS - COMM 1101		3
CYBR 3384: Risk Management for Cyber-Physical Systems		3	3. Mathematics (3 cr. min) MGT 2216		3
CYBR 4410: Professional Foundations in Cybersecurity		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)		
CYBR 4489: Capstone in Industrial Cybersecurity OR ESET 4497: Internship		3	AAS		3-4
ENGL 3307: Professional and Technical Writing		3	CHEM 1100 or 1111/L or 1112/L or PHYS 1100 or 1101/L or 1111/1113 or 1112/1114		4-5
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
MGT 2217: Applied Business Statistics		3	ECON 2201: Principles of Macroeconomics (recommended)		3
MGT 3312: Individual and Organizational Behavior		3	One Course from EITHER Objective 7 OR 8 (1course; 3 cr. min)		
MGT 4482: Project Management		3	7. Critical Thinking CS 1181 or Obj. 8		3
			8. Information Literacy INFO 1101 or Obj. 7		
			9. Cultural Diversity (1 course; 3 cr. min)		
			Any		3
*Complete either the following two courses:			General Education Elective to reach 36 cr. min. (if necessary)		
BA 3316: Introduction to Data Analytics		3			
MGT 3329: Operations and Supply Chain Management		3	Total GE		37-39
Or complete the following two courses:			Undergraduate Catalog and GE Objectives by Catalog Year		
INFO 4150: Information Systems and Controls		3			
INFO 4380: Networking and Cybersecurity		3			
MGT 2216: Business Statistics (counted in GE Obj. 3)			MAP Credit Summary		CR
CHEM 1100: Concepts of Chemistry OR			Major		83
CHEM 1111/L: General Chemistry I and Laboratory OR			General Education		37-39
CHEM 1112/L: General Chemistry II and Laboratory OR			Upper Division Free Electives to reach 36 credits		0
PHYS 1100: Essentials of Physics OR			Free Electives to reach 120 credits		0
PHYS 1101/L: Elements of Physics and Laboratory OR			TOTAL		120-122
PHYS 1111/1113: General Physics I and Laboratory OR					
PHYS 1112/1114: General Physics II and Laboratory (counted in GE Obj. 5)					
CS 1181: Computer Science and Programming I OR			Graduation Requirement Minimum Credit Checklist		Confirmed
INFO 1101: Digital Information Literacy (counted in GE Obj. 7 or 8)			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:		GR 06/17/2026
			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		