



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						
CYBR 3383: Security Design for Cyber-Physical Systems	3	C-		F, D	ESET 1181, 2223, 2227, and 2282, or instructor permission	ESET 1181, 2223, 2227, and 2282, or instructor permission
CYBR 4410: Professional Foundations in Cybersecurity	3	C-		D		
ESET 1162: Industrial Safety and Regulations	2	C-		F, S, D		
ESET 1182: Information Technology Fundamentals	3	C-		F, S	Minimum score of ALEKS 30 or equivalent	
ESET 2205: Fundamentals of Control Logic	3	C-		F, S, D	Instructor approval	
ESET 2282: Introduction to Networking	3	C-		F		
Total	17					
Semester Two						
CYBR 3384: Security Design for Cyber-Physical Systems	3	C-		D	ESET 1181, 2223, 2227, 2282, and CYBR 3383, or instructor approval	ESET 1181, 2223, 2227, 2282, and CYBR 3383, or instructor approval
CYBR 4481: Defending Critical Infrastructure and Cyber Physical Systems	3	C-		S, D	ESET 2282, CYBR 3383, 3384, or instructor approval	
CYBR 4486: Network Security for Industrial Environments	3	C-		S, D	ESET 2282, CYBR 3383 with a minimum grade of C-, or instructor approval	
CYBR 4487: Professional Development and Certification	3	C-		S, D	CYBR 3383, 3384, 4481, 4486	CYBR 3384, 4486, 4481
ESET 1120: Introduction to Energy Systems	2	C-		F, S, D		ESET 1120L
ESET 1120L: Introduction to Energy Systems Laboratory	1	C-		F, S, D		ESET 1120
ESET 2242: Practical Process Measurements and Control OR ESET 2222: Process Control Theory AND ESET 2226: Process Control Devices Laboratory	2 3 1	C-		F, D F, S, D	ESET 1122 or instructor approval ESET 1101/L, 1102/L, 1140, or instructor approval	ESET 2226 ESET 2222
Total	17-19					
*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	0 cr. min
MAJOR REQUIREMENTS	34-36	1. Written English	
CYBR 3383: Security Design for Cyber-Physical Systems	3		
CYBR 3384: Risk Management for Cyber-Physical Systems	3	2. Spoken English	
CYBR 4410: Professional Foundations in Cybersecurity	3	3. Mathematics	
CYBR 4481: Defending Critical Infrastructure and Cyber Physical Systems	3	4. Humanities, Fine Arts, Foreign Lang.	
CYBR 4486: Network Security for Industrial Environments	3		
CYBR 4487: Professional Development and Certification	3	5. Natural Sciences	
ESET 1120: Introduction to Energy Systems	2		
ESET 1120L: Introduction to Energy Systems Laboratory	1		
ESET 1162: Industrial Safety and Regulations	2		
ESET 1182: Information Technology Fundamentals	3	6. Behavioral and Social Science	
ESET 2205: Fundamentals of Control Logic	3		
ESET 2242: Practical Process Measurements and Control OR	2-4	One Course from EITHER Objective 7 OR 8	
ESET 2222: Process Control Theory AND		7. Critical Thinking	
ESET 2226: Process Control Devices Laboratory		8. Information Literacy	
ESET 2282: Introduction to Networking	3	9. Cultural Diversity	
		General Education Elective to reach 36 cr. min.	
		Total GE	0
		Undergraduate Catalog and GE Objectives by Catalog Year http://coursecat.isu.edu/undergraduate/programs/	
		MAP Credit Summary	CR
		Major	34-36
		General Education	0
		Upper Division Free Electives to reach 36 credits	0
		Free Electives to reach 120 credits	0
		TOTAL	34-36
		Graduation Requirement Minimum Credit Checklist	Confirmed
		Minimum 36 cr. General Education Objectives (15 cr. AAS)	
		Minimum 15 cr. Upper Division in Major (0 cr. Associate)	
		Minimum 36 cr. Upper Division Overall (0 cr. Associate)	
		Minimum of 120 cr. Total (60 cr. Associate)	
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	