



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 OR ENGL 1102 Writing and Rhetoric II	3	D-	GE	F, S, Su	Appropriate placement score	
ESET 1100: Engineering Technology Orientation	1	C-		F, S, D		
ESET 1100L: Introduction to an Industrial Environment Laboratory	1	C-		F, S, D	Minimum score of ALEKS 30 or equivalent	
ESET 1101: Electrical Circuits I	4	C-		F, S, D		ESET 1101L
ESET 1101L: Electrical Circuits I Laboratory	4	C-		F, S, D		ESET 1101
ESET 1140: Applied Technical Intermediate Algebra	5	C-		F, S, D	Minimum score of ALEKS 30 or equivalent	
Total	18					
Semester Two						
GE Objective 5: CHEM 1101 Introduction to Chemistry OR PHYS 1101/L Elements of Physics and Lab	3-4	D-	GE	F, S	Appropriate placement score	
ESET 1102: Electrical Circuits II	5	C-		F, S, D		ESET 1102L
ESET 1102L: Electrical Circuits II Lab	5	C-		F, S, D		ESET 1102
ESET 1110: Introduction to Process Control	1	C-		F, S, D	ESET 1100	ESET 1110L
ESET 1110L: Introduction to Process Control Lab	1	C-		F, S, D	ESET 1100L	ESET 1110
TGE 1159: Internship Strategies	1	D-		D		
Total	16-17					
Semester Three						
GE Objective 2: Fundamentals of Oral Comm	3	D-	GE	F, S		
GE Objective 3: MATH 1143 Precalculus I Algebra OR Math 1147 Precalculus OR MATH 1153 Statistical Reasoning OR MATH 1160 Survey of Calculus OR MATH 1170: Calculus I OR MGT 2216 Business Statistics	3-5	D-	GE		Appropriate placement score	
INST 2281: Electrical Automation Theory	8	C-		F, S	ESET 1102/L, 1110/L	INST 2282
INST 2282: Electrical Automation Lab	5	C-		F, S		INST 2281
Total	19-21					
Semester Four						
GE Objective 6: Any	3	D-	GE			
INST 2293: Process Measurement and Control Lab	4	C-		F, S		INST 2295, 2296
INST 2295: Process Measurement and Control Theory	6	C-		F, S, D	INST 2281, 2282	INST 2293, 2296
INST 2296: Process Dynamics	4	C-		F, S	INST 2281, 2282	INST 2293, 2295
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.)

2025-2026 Major Requirements		GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9		15 cr. min
MAJOR REQUIREMENTS	55	1. Written English	ENGL 1101 OR 1102	3
ESET 1100: Engineering Technology Orientation	1			
ESET 1100L: Introduction to an Industrial Environment Lab	1	2. Spoken English	COMM 1101	3
ESET 1101: Electrical Circuits I	4	3. Mathematics	MATH 1143 or 1147 or 1153 or 1160 or 1170 or MGT 2216	3-5
ESET 1101L: Electrical Circuits I Laboratory	4	4. Humanities, Fine Arts, Foreign Lang.		
ESET 1102: Electrical Circuits II	5			
ESET 1102L: Electrical Circuits II Laboratory	5			
ESET 1110: Introduction to Process Control	1	5. Natural Sciences		
ESET 1110L: Introduction to Process Control Laboratory	1	CHEM 1100 OR PHYS 1101/L		4
ESET 1140: Applied Technical Intermediate Algebra	5			
INST 2281: Electrical Automation Theory	8			
INST 2282: Electrical Automation Laboratory	5	6. Behavioral and Social Science		
INST 2293: Process Measurement and Control Laboratory	4	Any		3
INST 2295: Process Measurement and Control Theory	6			
INST 2296: Process Dynamics	4	One Course from EITHER Objective 7 OR 8		
TGE 1159: Internship Strategies	1	7. Critical Thinking		
		8. Information Literacy		
ENGL 1101: Writing and Rhetoric I OR ENGL 1102: Writing and Rhetoric II (counted in GE Obj. 1)		9. Cultural Diversity		
MATH 1143: Precalculus I: Algebra OR MATH 1147: Precalculus OR MATH 1153: Statistical Reasoning OR MATH 1160: Survey of Calculus OR MATH 1170: Calculus I OR MGT 2216: Business Statistics (counted in GE Obj. 3)		General Education Elective to reach 36 cr. min.		
CHEM 1100: Concepts of Chemistry OR PHYS 1101: Elements of Physics AND PHYS 1101L: Elements of Physics Lab (counted in GE Obj. 5)				
		Total GE		16-18
		Undergraduate Catalog and GE Objectives by Catalog Year http://coursecat.isu.edu/undergraduate/programs/		
		MAP Credit Summary		CR
		Major		55
		General Education		16-18
		Upper Division Free Electives to reach 36 credits		0
		Free Electives to reach 120 credits		0
		TOTAL		71-73
		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:	GR 07/01/2025	
		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		