



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
<b>Semester One</b>						
COMM 1101: Fundamentals of Oral Communication or BIOL 1104: Oral Communication in the Sciences	3	C-	GE	F, S		
ESET 1100: Engineering Technology Orientation AND ESET 1100L: Introduction to an Industrial Environment Lab OR ESET 1162: Industrial Safety and Regulations	2	C-		F, S, D	Minimum score of 30 on ALEKS or equivalent	
ESET 1118: Industrial Maintenance Mechanic I OR SMT 1118: Semiconductor Manufacturing Technician I	2	C-		F, S, Su		ESET 1118L SMT 1118L
ESET 1118L: Industrial Maintenance Mechanic Lab I OR SMT 1118L: Semiconductor Manufacturing Technician I Lab	1	C-		F, D F, S, Su		ESET 1118 SMT 1118
ESET 1140: Applied Technical Intermediate Algebra	5	C-		F, S, D		
ESET 1153: Radiological Control Fundamentals	3	C-		F, D		
<b>Total</b>	<b>16</b>					
<b>Semester Two</b>						
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	3-5	C-	GE	F, S, Su F, S F, S, Su F, S F, S, Su	Appropriate math score	
ESET 1121: Basic Electricity and Electronics OR IAET 2050: Introduction to Automation	3-4	C-		F, S F, S, D	ESET 1100, 1101, 1140	ESET 1121L IAET 2050L
ESET 1121L: Basic Electricity and Electronics Laboratory OR IAET 2050L: Introduction to Automation Laboratory	3-4	C-		F, S	ESET 1100L, 1101L	ESET 1121 IAET 2050
ESET 1151: Nuclear Industry Fundamental Concepts	3	C-		S, D		ESET 1151L
ESET 1151L: Nuclear Industry Fundamental Concepts Lab	1	C-		S, D		ESET 1151
ESET 2263: Nuclear Hot Cell Manipulator Operations and Maintenance	2	C-		S, D	ESET 1153 or instructor permission	
<b>Total</b>	<b>15-19</b>					
*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
<b>MAJOR REQUIREMENTS</b>	<b>25-27</b>	1. Written English	
ESET 1100: Engineering Technology Orientation AND ESET 1100L: Introduction to an Industrial Environment Lab OR ESET 1162: Industrial Safety and Regulations	2	2. Spoken English COMM 1101 or BIOL 1104 3. Mathematics MATH 1143 or 1147 or 1153 or 1160 or 1170	3 3-5
ESET 1118: Industrial Maintenance Mechanic I OR SMT 1118: Semiconductor Manufacturing Technician I	2	4. Humanities, Fine Arts, Foreign Lang.	
ESET 1118L: Industrial Maintenance Mechanic Lab I OR SMT 1118L: Semiconductor Manufacturing Technician I Lab	1	5. Natural Sciences	
ESET 1121: Basic Electricity and Electronics OR IAET 2050: Introduction to Automation	3-4		
ESET 1121L: Basic Electricity and Electronics Laboratory OR IAET 2050L: Introduction to Automation Laboratory	3-4	6. Behavioral and Social Science	
ESET 1140: Applied Technical Intermediate Algebra	5		
ESET 1151: Nuclear Industry Fundamental Concepts	3		
ESET 1151L: Nuclear Industry Fundamental Concepts Lab	1	One Course from EITHER Objective 7 OR 8	
ESET 1153: Radiological Control Fundamentals	3	7. Critical Thinking	
ESET 2263: Nuclear Hot Cell Manipulator Operations and Maintenance	2	8. Information Literacy 9. Cultural Diversity	
		General Education Elective to reach 36 cr. min.	
		<b>Total GE</b>	<b>6-8</b>
		Undergraduate Catalog and GE Objectives by <a href="http://coursecat.isu.edu/undergraduate/programs/">Catalog Year</a> <a href="http://coursecat.isu.edu/undergraduate/programs/">http://coursecat.isu.edu/undergraduate/programs/</a>	
		<b>MAP Credit Summary</b>	<b>CR</b>
		Major	25-27
		General Education	6-8
		Upper Division Free Electives to reach 36 credits	0
		Free Electives to reach 120 credits	0
		<b>TOTAL</b>	<b>31-35</b>
		<b>Graduation Requirement Minimum Credit Checklist</b>	<b>Confirmed</b>
		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)	
		<b>MAP Completion Status (for internal use only)</b>	
This MAP is tentative until updated with the FY2027 ISU Academic Catalog		<i>Date</i>	
		CAA or COT:	GR 04/21/2026
		<b>Complete College American Momentum Year</b>	
		<b>Math and English course in first year-Specific GE MATH course identified</b>	
		<b>9 credits in the Major area in first year</b>	
		<b>15 credits each semester (or 30 in academic year)</b>	
		<b>Milestone courses</b>	