



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 - AAS</b>						
GE Objective 1: ENGL 1101 Writing and Rhetoric I	3	D-	GE	F, S, Su	Appropriate placement score	
RCET 1153A: Basic Electricity and DC Circuit Theory	4	C-		F, S	Minimum score of ALEKS 30 or equivalent	RCET 1153B
RCET 1153B: Basic Electricity and AC Circuit Theory	4	C-		F, S	RCET 1153A	RCET 1153A, 1155B
RCET 1155A: Basic Electricity and DC Circuit Lab	2	C-		F, S		RCET 1155B
RCET 1155B: Basic Electricity and AC Circuit Lab	2	C-		F, S	RCET 1155A	RCET 1155A, 1153B
<b>Total</b>	<b>15</b>					
<b>Semester Two - AAS</b>						
GE Objective 5: PHYS 1101/L Elements of Physics and Lab <b>OR</b> PHYS 1100 Essentials of Physics <b>OR</b> PHYS 1111/1113 General Physics I and Lab	4	D-	GE	F, S F, S F	Appropriate placement score	
RCET 1154A: Analog Control Devices Theory	4	C-		F, S, D	RCET 1153A, 1153B, 1155A, 1153B	RCET 1156A
RCET 1154B: Digital Control Devices Theory	4	C-		F, S, D	RCET 1153B	RCET 1156B
RCET 1156A: Analog Control Devices Lab	2	C-		F, S, D	RCET 1153A, 1153B, 1155A, 1155B	RCET 1154A
RCET 1156B: Digital Control Devices Lab	2	C-		F, S, D	RCET 1155B	RCET 1154B
<b>Total</b>	<b>16</b>					
<b>Semester Three - AAS</b>						
GE Objective 3: RCET 1372 Calculus for Electronics	4	C-	GE	F, S	MATH 1144 or 1147 or RCET 1154A	
RCET 2251: Systems Analog and Digital Theory	6	C-		F, S	PHYS 1101/L, 1100, 1111/1113	RCET 2253
RCET 2253: Systems Analog and Digital Lab	5	C-		F, S	RCET 1156B	RCET 2251
RCET 2271: Introduction to Lab Simulation Software	2	C-		F, S		
<b>Total</b>	<b>17</b>					
<b>Semester Four - AAS</b>						
GE Objective 1: Writing and Rhetoric II	3	D-	GE	F, S, Su	ENGL 1101/P or equivalent	
RCET 2265: Computer Fundamentals and Introduction to Programming	4	C-		F, S		
RCET 2267: Radio Frequency Transmission Theory	6	C-		F, S	RCET 1372, 2251, 2253	RCET 2268
RCET 2268: Radio Frequency Transmission Lab	5	C-		F, S	RCET 1372, 2251, 2253	RCET 2267
<b>Total</b>	<b>18</b>					
<b>Semester Five - AAS</b>						
GE Objective 2: COMM 1101 Fundamentals of Oral Comm	3	D-	GE	F, S		
RCET 3371: Advanced Programming Techniques and GUI Development	4	C-	UM	D	RCET 2265, 2271	
RCET 3373: Advanced Computer Architecture and Embedded Systems Theory	5	C-	UM	D	RCET 1154B, 2251	RCET 3375
RCET 3375: Advanced Computer Architecture and Embedded Systems Lab	5	C-	UM	D	RCET 1156B, 2253	RCET 3373
<b>Total</b>	<b>17</b>					
<b>Semester Six - AAS</b>						
GE Objective 6: TGE 1150 Applied Social Sciences in the Workplace (recommended)	3	D-	GE	D		
RCET 3372: Advanced Applications of Calculus for Robotics	4	C-	UM		RCET 1372, PHYS 1101	
RCET 3374: Advanced Systems Analysis Theory	4	C-	UM	D	RCET 2251, 2267	RCET 3376
RCET 3376: Advanced Systems Analysis Theory	5	C-	UM	D	RCET 2253, 2268	RCET 3374
<b>Total</b>	<b>16</b>					
<b>Semester Seven</b>						
GE Objective 4: Any	3	D-	GE			
GE Objective 5: Any course besides PHYS	3	D-	GE			
GE Objective 7 or 8: Any	3	D-	GE			
ENGL 3307: Professional and Technical Writing	3	C-	UU	F, S	45 credits and ENGL 1102	
*Elective From Approved List	2-5	C-	UM			
<b>Total</b>	<b>14-17</b>					
<b>Semester Eight</b>						
GE Objective 4: Any from different category than previous	3	D-	GE			
GE Objective 6: Any with different prefix than previous	3	D-	GE			
GE Objective 9: Any	3	D-	GE			
*Elective From Approved List	2-5	C-	UM			
*Elective From Approved List	2-5	C-	UM			
<b>Total</b>	<b>13-19</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.)

2025-2026 Major Requirements		CR	GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9	36 cr. min
<b>MAJOR REQUIREMENTS</b>		<b>92</b>	1. Written English (6 cr. min) AAS - ENGL 1101	3
ENGL 3307: Professional and Technical Writing		3	AAS - ENGL 1102	3
RCET 1153A: Basic Electricity and DC Circuit Theory		4	2. Spoken English (3 cr. min) AAS - COMM 1101	3
RCET 1153B: Basic Electricity and AC Circuit Theory		4	3. Mathematics (3 cr. min) RCET 1372	4
RCET 1154A: Analog Control Devices Theory		4	4. Humanities, Fine Arts, Foreign Lang. (2 courses; 2 categories; 6 cr. min)	
RCET 1154B: Digital Control Devices Theory		4	Any	3
RCET 1155A: Basic Electricity and DC Circuit Lab		2	Any from different category than previous	3
RCET 1155B: Basic Electricity and AC Circuit Lab		2	5. Natural Sciences (2 lectures-different course prefixes, 1 lab; 7 cr. min)	
RCET 1156A: Analog Controls Devices Lab		2	AAS – PHYS 1101/L or 1100 or 1111/1113	4
RCET 1156B: Digital Control Devices Lab		2	Any from different prefix than previous	3
RCET 2251: Systems Analog and Digital Theory		6		
RCET 2253: Systems Analog and Digital Lab		5	6. Behavioral and Social Science (2 courses-different prefixes; 6 cr. min)	
RCET 2265: Computer Fundamentals and Introduction to Programming		4	AAS - TGE 1150	3
			Any from different prefix	3
RCET 2267: Radio Frequency Transmission Theory		6	One Course from EITHER Objective 7 OR 8 (1course; 3 cr. min)	
RCET 2268: Radio Frequency Transmission Lab		5	7. Critical Thinking Any or Obj. 8	3
RCET 2271: Introduction to Lab Simulation Software		2	8. Information Literacy Any or Obj. 7	
RCET 3371: Advanced Programming Techniques and GUI Development		4	9. Cultural Diversity (1 course; 3 cr. min)	
			Any	3
RCET 3372: Advanced Applications of Calculus for Robotics		4	General Education Elective to reach 36 cr. min. (if necessary)	
RCET 3373: Advanced Computer Architecture and Embedded Systems Theory		5		
			<b>Total GE</b>	<b>38</b>
RCET 3374: Advanced Systems Analysis Theory		4	Undergraduate Catalog and GE Objectives by <a href="http://coursecat.isu.edu/undergraduate/programs/">Catalog Year</a>	
RCET 3375: Advanced Computer Architecture and Embedded Systems Lab		5		
RCET 3376: Advanced Systems Analysis Theory		5		
<b>*Select a Minimum of 10 Credits from the Following:</b>		<b>10</b>	<b>MAP Credit Summary</b>	<b>CR</b>
RCET 3331: Laser Systems and Optics Theory		4	Major	92
RCET 3332: Laser Systems and Optics Lab		3	General Education	38
RCET 3370: Electronic Drafting for PCB Design		3	Upper Division Free Electives to reach 36 credits	0
RCET 3382: Rapid Prototyping Technologies		2	Free Electives to reach 120 credits	0
RCET 3383: Advanced Laser Systems and Optics Theory		5	<b>TOTAL</b>	<b>130</b>
RCET 3384: Advanced Laser Systems and Optics Lab		3		
RCET 3396: Independent Study		1-8		
RCET 3398: Special Topics		1-8		
MGT or OLP Upper Division Courses Numbered 3300-4499				
			<b>Graduation Requirement Minimum Credit Checklist</b>	<b>Confirmed</b>
			Minimum 36 cr. General Education Objectives (15 cr. AAS)	<b>X</b>
			Minimum 15 cr. Upper Division in Major (0 cr. Associate)	<b>X</b>
			Minimum 36 cr. Upper Division Overall (0 cr. Associate)	<b>X</b>
			Minimum of 120 cr. Total (60 cr. Associate)	<b>X</b>
<b>Advising Notes</b>		<b>MAP Completion Status (for internal use only)</b>		
			Date	
		CAA or COT:	HW 06/25/2025	
		<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>		