

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 2: COMM 1101 Fundamentals of Oral Comm	3		GE		Appropriate Placement Score	
RCET 0153A: Basic Electricity & DC Circuit Theory	4	C-		F,S		RCET 0153B
RCET 0153B: Basic Electricity & AC Circuit Theory	4	C-		F,S	RCET 0153A	RCET153A, 0155B
RCET 0155A: Basic Electricity & DC Circuit Lab	2	C-		F,S		RCET 0155B
RCET 0155B: Basic Electricity & AC Circuit Lab	2	C-		F,S	RCET 0155A	RCET 0153B, 0155A
Total	15					
Semester Two						
GE Objective 5: PHYS 1101/L Elements of Physics & Lab	4		GE			
RCET 0154A: Analog Control Devices Theory	4	C-		F,S	RCET 0153A, 0153B, 0155A, 0155B	RCET 0156A
RCET 0154B: Digital Control Devices Theory	4	C-		F,S	RCET 0154A, 0156A	RCET 0156B
RCET 0156A: Analog Control Devices Lab	2	C-		F,S	RCET 0153A, 0153B, 0155A, 0155B	RCET 0154A
RCET 0156B: Digital Control Devices Lab	2	C-		F,S	RCET 0154A, 0156A	RCET 0154B
Total	16					
Semester Three						
GE Objective 3: RCET 1372 Calculus for Electronics (required)	4	C-		F,S	MATH 1144 or MATH 1147 or RCET 0154A	
RCET 0251: Systems Analog & Digital Theory	6	C-		F,S		RCET 0253
RCET 0253: Systems Analog & Digital Lab	5	C-		F,S	RCET 0156B	RCET 0251
RCET 0271: Introduction to Lab Simulation Software	2	C-		F,S		
Total	17					
Semester Four						
RCET 0265: Computer Fundamentals & Intro to Programming	4	C-		F,S		
RCET 0267: Radio Frequency Transmission Theory	6	C-		F,S	RCET 0251, 0253, 1372	RCET 0268
RCET 0268: Radio Frequency Transmission Lab	5	C-		F,S	RCET 0251, 0253, 1372	RCET 0267
Total	15					
Semester Five						
GE Objective 1: ENGL 1101 Writing and Rhetoric I	3		GE		Placement Test	
RCET 3371: Adv. Programming Techniques and GUI Development	4	C-		F,S	RCET 0265, 0271	
RCET 3373: Advanced Computer Architecture and Embedded Systems Theory	5	C-		F,S	RCET 0154B, 0251	RCET 3375
RCET 3375: Advanced Computer Architecture and Embedded Systems Lab	5	C-		F,S	RCET 0156B, 0253	RCET 3373
Total	17					
Semester Six						
RCET 3372: Advanced Applications of Calculus for Robotics	4	C-			RCET 1372, PHYS 1101	Supports RCET 3374
RCET 3374: Advanced Systems Analysis Theory	4	C-		F,S	RCET 0251, 0267	RCET 3376
RCET 3376: Advanced Systems Analysis Theory Lab	5	C-		F,S	RCET 0253, 0268	RCET 3374
Total	13					

*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.)

2022-2023 Major Requirements		CR	GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1,2,3,5,6	14 cr. min
MAJOR REQUIREMENTS		79		
RCET 0153A: Basic Electricity and DC Circuit Theory	4	1. Written English (3 cr. min)	ENGL 1101	3
RCET 0153B: Basic Electricity and AC Circuit Theory	4	2. Spoken English (3 cr. min)	COMM 1101	3
RCET 0154A: Analog Control Devices Theory	4	3. Mathematics (3 cr. min)	RCET 1372 (required)	4
RCET 0154B: Digital Control Devices Theory	4	4. Humanities, Fine Arts, Foreign Lang.		
RCET 0155A: Basic Electricity and DC Circuit Laboratory	2			
RCET 0155B: Basic Electricity and AC Circuit Laboratory	2			
RCET 0156A: Analog Control Devices Laboratory	2	5. Natural Sciences (1 lectures, 1 lab; 4 cr. min)		
RCET 0156B: Digital Control Devices Laboratory	2	PHYS 1101 w/Lab		4
RCET 0251: Systems Analog and Digital Theory	6			
RCET 0253: Systems Analog and Digital Laboratory	5			
RCET 0265: Computer Fundamentals & Intro to Programming	4	6. Behavioral and Social Science (1 courses; 3 cr. min)		
RCET 0267: Radio Frequency Transmission Theory	6			
RCET 0268: Radio Frequency Transmission Laboratory	5			
RCET 0271: Introduction to Lab Simulation Software	2	One Course from EITHER Objective 7 OR 8		
RCET 3371: Advanced Programming Techniques and GUI Development	4	7. Critical Thinking		
RCET 3372: Advanced Applications of Calculus for Robotics	4	8. Information Literacy		
RCET 3373: Advanced Computer Architecture and Embedded Systems Theory	5	9. Cultural Diversity		
RCET 3374: Advanced Systems Analysis Theory	4			
RCET 3375: Advanced Computer Architecture and Embedded Systems Laboratory	5	General Education Elective to reach 36 cr. min. (if necessary)		
RCET 3376: Advanced Systems Analysis Laboratory	5			
		Total GE		14
RCET 1372: Calculus for Electronics (counted in GE Obj. 3)		Undergraduate Catalog and GE Objectives by Catalog Year http://coursecat.isu.edu/undergraduate/programs/		
PHYS 1101 w/Lab (counted in GE Obj. 5)				
		MAP Credit Summary		
		CR		
		Major		
		79		
		General Education		
		14		
		Upper Division Free Electives to reach 36 credits		
		Free Electives to reach 120 credits		
		TOTAL		
		93		
		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)		
		Minimum 36 cr. Upper Division Overall (0 cr. Associate)		
		Minimum of 120 cr. Total (60 cr. Associate)		
		X		
Advising Notes		MAP Completion Status (for internal use only)		
		<i>Date</i>		
		CAA or COT:	PJ 06/14/2022	
		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		