

Catalog Year 2023-2024

AAS, Robotics and Communications Systems Engineering Technology

(For internal use only)							
\boxtimes	No change						

 \square UCC proposal

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 6: TGE 1150 (Recommended)	3	C-	GE	F, S		
RCET 1153A: Basic Electricity & DC Circuit Theory	4	C-		F, S		RCET 1153B
RCET 1153B: Basic Electricity & AC Circuit Theory		C-		F, S		RCET 1153A, RCET 11558
RCET 1155A: Basic Electricity & DC Circuit Lab	2	C-		F, S		RCET 1155B
RCET 1155B: Basic Electricity & AC Circuit Lab	2	C-		F, S		RCET 1153B, RCET 1155/
Total						
Semester Two						
GE Objective 5: PHYS 1101/1101L Elements of Physics		C-	GE	F, S		
RCET 1154A: Analog Control Devices Theory		C-		F, S, D	RCET 1153A/B, RCET 1155A/B	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/B, RCET 1155A/B	RCET 1154A
RCET 1156B: Digital Control Devices Lab	2	C-		F, S, D	RCET 1155B	RCET 1154B
Total	16					
Semester Three						
GE Objective 3: RCET 1372 Calculus for Electronics	4	C-		F, S	MATH 1144 or MATH 1147 or RCET	
(required)				'-	1154A	
RCET 2251: Systems Analog & Digital Theory	6	C-		F, S		RCET 2253
RCET 2253: Systems Analog & Digital Lab	5	C-		F, S	RCET 1156B	RCET 2251
RCET 2271: Introduction to Lab Simulation Software	2	C-		F, S		
Total	17					
Semester Four	ı			ı		L
RCET 2265: Computer Fundamentals & Introduction to		_		F, S		
Programming	4	C-				
RCET 2267: Radio Frequency Transmission Theory		C-		F, S	RCET 2251, RCET 2253, RCET 1372	RCET 2268
RCET 2268: Radio Frequency Transmission Lab		C-		F, S	RCET 2251, RCET 2253, RCET 1372	RCET 2267
Total	15					
Semester Five				•		
GE Objective 1: ENGL 1101 Writing and Rhetoric I		C-	GE	F, S, Su	Placement Test	
RCET 3371: Advanced Programming Techniques & GUI		C-		D	RCET 2265, RCET 2271	
Development						
RCET 3373: Advanced Computer Architecture & Embedded		C-		D	RCET 1154B, RCET 2251	RCET 3375
Systems Theory						
RCET 3375: Advanced Computer Architecture &		C-		D	RCET 1156B, RCET 2253	RCET 3373
Embedded Systems Lab						
Total	17					
Semester Six						
GE Objective 2: COMM 1101 Fundamentals of Oral Comm		C-	GE	F, S		
RCET 3372: Advanced Applications of Calculus for Robotics		C-			RCET 1372, PHYS 1101	Supports RCET 3374
RCET 3374: Advanced Systems Analysis Theory		C-		D	RCET 2251, RCET 2267	RCET 3376
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RCET 3376: Advanced Systems Analysis Theory Lab	5	C-		D	RCET 2253, RCET 2268	RCET 3374

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.)

77 15, Nobolies and Communication Systems		CENTERAL EDUCATION ORIECTIVES	1 466 2
2022-2023 Major Requirements	CR	GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1,2,3,5,6	17 cr.
MAJOR REQUIREMENTS	79	1. Written English (3 cr. min) ENGL 1101	min 3
RCET 1153A: Basic Electricity and DC Circuit Theory	4	1. Written English (5 cr. min)	
RCET 1153A: Basic Electricity and AC Circuit Theory		2. Spoken English (3 cr. min) COMM 1101	3
RCET 1154A: Analog Control Devices Theory		3. Mathematics (3 cr. min) RCET 1372	4
RCET 1154B: Digital Control Devices Theory		4. Humanities, Fine Arts, Foreign Lang.	
RCET 1155A: Basic Electricity and DC Circuit Laboratory			
RCET 1155B: Basic Electricity and AC Circuit Laboratory			
RCET 1156A: Analog Control Devices Laboratory		5. Natural Sciences (1 lectures, 1 lab; 4 cr. min)	
RCET 1156B: Digital Control Devices Laboratory		PHYS 1101	3
RCET 2251: Systems Analog and Digital Theory	6	PHYS 1101/L	1
RCET 2253: Systems Analog and Digital Laboratory			
RCET 2265: Computer Fundamentals & Intro to Programming		6. Behavioral and Social Science (1 courses; 3 cr. min)	
RCET 2267: Radio Frequency Transmission Theory		TGE 1150: Social Sciences in the Workplace (Recommended)	3
RCET 2268: Radio Frequency Transmission Laboratory	5		
RCET 2271: 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	5	9. Cultural Diversity	
Systems Theory			
RCET 3374: Advanced Systems Analysis Theory			
RCET 3375: Advanced Computer Architecture and Embedded Systems Laboratory		General Education Elective to reach 36 cr. min. (if i	necessary)
RCET 3376: Advanced Systems Analysis Laboratory	5		
		Total GE	17
		Undergraduate Catalog and GE Objectives by Catalog Year	
	1	http://coursecat.isu.edu/undergraduate/programs/	
RCET 1372: Calculus for Electronics (counted in GE C PHYS 1101 w/Lab (counted in GE O			
		MAP Credit Summary	CR
		Major	79
		General Education	17
		Upper Division Free Electives to reach 36 credits	0
		Free Electives to reach 120 credits	0
		TOTAL	96
		Graduation Requirement Minimum Credit Checklist	Confirmed
		Minimum 36 cr. General Education Objectives (15 cr. AAS)	Х
		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)	V
		William of 120 cf. Total (ou cf. Associate)	Х
Advising Notes		MAP Completion Status (for internal use only)	
		Date	
		CAA or COT: PJ 05/31/2023	
		Complete College American Momentum Year	
		Math and English course in first year-Specific GE MATH cour	se identified
		9 credits in the Major area in first year	
		15 credits each semester (or 30 in academic year)	
		Milestone courses	