

## **Catalog Year 2023-2024** ADTC, Robotics and Communications Systems Engineering Technology

🗵 No change

 $\Box$  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 2: COMM 1101 Fundamentals of Oral Comm	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	4	C-		F, S		RCET 1153A, RCET 1155
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 1155A
Total	15	-		, -		
Semester Two	10	L				
GE Objective 5: PHYS 1101/L Elements of Physics & Lab	4	C-	GE	F, S		
RCET 1154A: Analog Control Devices Theory	4	C-	01	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 1155A/B, RCET 1155A/B	RCET 1154B
Total	16	C-		1, 3, 0		1021 11340
Semester Three	10		l			
GE Objective 3: RCET 1372 Calculus for Electronics	1			F, S	MATH 1144 or MATH 1147 or	
(required)	4	C-		г, з	RCET 1154A	
RCET 2251: Systems Analog & Digital Theory	6	C-		F, S		RCET 2253
RCET 2251: Systems Analog & Digital Theory RCET 2253: Systems Analog & Digital Lab	5	C-		F, S		RCET 2253
RCET 2253: Systems Analog & Digital Lab	2	C-		F, S	RCET 1156B	RCET 2231
		ι-		F, S		
Total	17					
Semester Four				5.0		
RCET 2265: Computer Fundamentals & Intro to	4	C-		F, S		
Programming		-				
RCET 2267: Radio Frequency Transmission Theory	6	C-		F, S	RCET 2251, RCET 2253, RCET	RCET 2268
	_				1372	
RCET 2268: Radio Frequency Transmission Lab	5	C-		F, S	RCET 2251, RCET 2253, RCET	RCET 2267
					1372	
Total	15					
Semester Five	-	1 -		1		
GE Objective 1: ENGL 1101 Writing and Rhetoric I	3	C-	GE	F, S, Su	Placement Test	
RCET 3371: Advanced Programming Techniques and GUI	4	C-		D	RCET 2265, RCET 2271	
Development						
RCET 3373: Advanced Computer Architecture and	5	C-		D	RCET 1154B, 2251	RCET 3375
Embedded Systems Theory						
RCET 3375: Advanced Computer Architecture and	5	C-		D	RCET 1156B, RCET 2253	RCET 3373
Embedded Systems Lab						
Total	17					
Semester Six						
RCET 3372: Advanced Applications of Calculus for Robotics	4	C-		D	RCET 1372, PHYS 1101	Supports RCET 3374
RCET 3374: Advanced Systems Analysis Theory	4	C-		D	RCET 2251, RCET 2267	RCET 3376
RCET 3376: Advanced Systems Analysis Theory Lab	5	C-		D	RCET 2253, RCET 2268	RCET 3374
Total	13					

2023-2024 Major Requirements		GENERAL EDUCATION OF	14 cr.			
		Satisfy Objectives 1,2,3,5,6				
MAJOR REQUIREMENTS	79	1. Written English (3 cr. min	) ENGL 1101	3		
RCET 1153A: Basic Electricity and DC Circuit Theory	4					
RCET 1153B: Basic Electricity and AC Circuit Theory	4	2. Spoken English (3 cr. min		3		
RCET 1154A: Analog Control Devices Theory	4	3. Mathematics (3 cr. min		4		
RCET 1154B: Digital Control Devices Theory	4	4. Humanities, Fine Arts, For	eign Lang.			
RCET 1155A: Basic Electricity and DC Circuit Laboratory	2					
RCET 1155B: Basic Electricity and AC Circuit Laboratory	2					
RCET 1156A: Analog Control Devices Laboratory		5. Natural Sciences (1 lectures, 1 lab; 4 cr. min)				
RCET 1156B: Digital Control Devices Laboratory	2	PHYS 1101		3		
RCET 2251: Systems Analog and Digital Theory	6	PHYS 1101L		1		
RCET 2253: Systems Analog and Digital Laboratory	5					
RCET 2265: Computer Fundamentals & Intro to Programming	4	6. Behavioral and Social Scie	nce (1 courses; 3 cr. min)			
RCET 2267: Radio Frequency Transmission Theory	6					
RCET 2268: Radio Frequency Transmission Laboratory	5	One Course from EITHER Ob	iactivo 7 OP 9			
RCET 2271: Introduction to Lab Simulation Software RCET 3371: Advanced Programming Techniques and GUI		7. Critical Thinking	Jective / OK 8			
Development	4	7. Chucai minking				
RCET 3372: Advanced Applications of Calculus for Robotics	4	8. Information Literacy				
RCET 3373: Advanced Computer Architecture and Embedded		9. Cultural Diversity				
Systems Theory		,				
RCET 3374: Advanced Systems Analysis Theory	4					
RCET 3375: Advanced Computer Architecture and Embedded	5	General Education Elective t	o reach 36 cr. min.	if necessary)		
Systems Laboratory						
RCET 3376: Advanced Systems Analysis Laboratory	5					
DCFT 1272: Coloridus for Electronics (counted in CE O	h: 2)	Lindeveneduete Cetales and	Total	GE 14		
RCET 1372: Calculus for Electronics(counted in GE OPHYS 1101 w/Lab(counted in GE O		http://coursecat.isu.edu/underg	GE Objectives by <u>Catalog Year</u>			
		MAP Credit Summary		CR		
		Major		79		
			General Education			
		Upper Division Free Electives to reach 36 credits				
		Free Electives to reach 120 credits				
		TOTAL				
		-		L 93		
		-		Confirmed		
		=	Graduation Requirement Minimum Credit Checklist			
		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)				
Advising Notes	MAP Completion Status (	for internal use only)				
			Date			
		CAA or COT:	PJ 05/31/2023			
		Complete College Americ	an 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				