

Catalog Year 2024-2025

AAS, Robotics and Communications Systems Engineering Technology

(For internal use only)							
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oxtimes 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 Applied Social Sciences in the	3	_	CF	D		
Norkplace (Recommended)		C-	GE	D		
RCET 1153A: Basic Electricity & DC Circuit Theory		C-		F, S	Minimum score of 30 on ALEKS or equivalent	RCET 1153B
RCET 1153B: Basic Electricity & AC Circuit Theory	4	C-		F, S		RCET 1153A, 1155B
RCET 1155A: Basic Electricity & DC Circuit Lab	2	C-		F, S		RCET 1155B
RCET 1155B: Basic Electricity & AC Circuit Lab		C-		F, S		RCET 1153B, 1155A
Total	15					
Semester Two						
Objective 5: PHYS 1101/L OR PHYS 1100 OR PHYS 1111 and PHYS 1113		C-	GE			
RCET 1154A: Analog Control Devices Theory	4	C-		F, S, D	RCET 1153A/B, 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, 1155A/B	RCET 1154A
RCET 1156B: Digital Control Devices Lab	2	C-		F, S, D	RCET 1155B	RCET 1154B
Total	15					
Semester Three						
GE Objective 3: RCET 1372 Calculus for Electronics	4	C-		F, S	MATH 1144 or MATH 1147 or RCET	
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						
RCET 2265: Computer Fundamentals and Introduction to	4	C-		гс		
Programming	4	C-		F, S		
RCET 2267: Radio Frequency Transmission Theory		C-		F, S	RCET 2251, 2253, 1372	RCET 2268
RCET 2268: Radio Frequency Transmission Lab		C-		F, S	RCET 2251, 2253, 1372	RCET 2267
Total						
Semester Five		•		•		
GE Objective 1: ENGL 1101 Writing and Rhetoric I	3	C-	GE	F, S, Su		
RCET 3371: Advanced Programming Techniques and GUI	4	-			RCET 2265, 2271	
Development	4	C-		D		
RCET 3373: Advanced Computer Architecture and	г	_		,	RCET 1154B, 2251	RCET 3375
Embedded Systems Theory	5	C-		D		
RCET 3375: Advanced Computer Architecture and	_	C-		-	RCET 1156B, 2253	RCET 3373
Embedded Systems Lab	5	C-		D		
Total	18					
Semester Six						
GE Objective 2: COMM 1101 Fundamentals of Oral Comm	3	C-	GE	F, S		
RCET 3372: Advanced Applications of Calculus for Robotics		C-			RCET 1372, PHYS 1101	
RCET 3374: Advanced Systems Analysis Theory		C-		D	RCET 2251, 2267	RCET 3376
RCET 3376: Advanced Systems Analysis Theory Lab		C-		D	RCET 2253, 2268	RCET 3374
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^{*}See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.)

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2024-2025 Major Requirements		GENERAL EDUCATION OF	15 cr.			
MAJOR REQUIREMENTS	79	Satisfy Objectives 1,2,3,5		min 3		
RCET 1153A: Basic Electricity and DC Circuit Theory	4	1. Written English (3 cr. mir	i) ENGL 1101	3		
RCET 1153A. Basic Electricity and BC Circuit Theory	4	2. Spoken English (3 cr. mir	n) COMM 1101	3		
RCET 1153B. Basic Electricity and Ac Circuit Theory RCET 1154A: Analog Control Devices Theory	4	3. Mathematics (3 cr. mir		4		
	4	,	<u> </u>			
RCET 1154B: Digital Control Devices Theory		4. Humanities, Fine Arts, Fo	reign 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/L or PHYS 1100 or PHYS 1111 and PHYS 1113				
RCET 2251: Systems Analog and Digital Theory	6					
RCET 2253: Systems Analog and Digital Laboratory	5					
RCET 2265: Computer Fundamentals & Intro to Programming	4	6. Behavioral and Social Science (1 courses; 3 cr. min)				
RCET 2267: Radio Frequency Transmission Theory	6	TGE 1150: Social Sciences in the Workplace (Recommended)				
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		7. Critical Thinking				
Development		8. Information Literacy				
RCET 3372: Advanced Applications of Calculus for Robotics	4	9. Cultural Diversity				
RCET 3373: Advanced Computer Architecture and Embedded	5	Consul Education Floation				
Systems Theory		General Education Elective	to reach 36 cr. min. (if	necessary)		
RCET 3374: Advanced Systems Analysis Theory RCET 3375: Advanced Computer Architecture and Embedded	4		Total CI	. 17		
·	5	Lindorgraduate Catalog and	Total GE	17		
Systems Laboratory RCET 3376: Advanced Systems Analysis Laboratory	5	Undergraduate Catalog and GE Objectives by Catalog Year http://coursecat.isu.edu/undergraduate/programs/				
NCET 3370. Advanced Systems Analysis Edboratory	+ -		, , ,			
RCET 1372: Calculus for Electronics (counted in GE	Obj. 3)	-				
		MAP Credit Summary				
		Major		79		
		General Education		17		
		Upper Division Free Elect	ives to reach 36 credits	0		
		Free Electives to reach 12	20 credits	0		
			TOTAL	96		
				0 %		
			t Minimum Credit Checklist	Confirmed		
		Minimum 36 cr. General Ed	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)				
Advising Notes		MAP Completion Status	(for internal use only)			
			Date			
		CAA or COT:	EA 06/18/2024			
		Complete College American Momentum Year				
		Math and English course in first year-Specific GE MATH course ider				
		9 credits in the Major area in first year				
			(or 30 in academic year)			
		Milestone courses				