

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-Requirement
Semester One						
GE Objective 1: Any	3	D-	GE			
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 1153B, 1155A
Total	15					
Semester Two						
GE Objective 5: PHYS 1101 Elements of Physics AND PHYS 1101L Elements of Physics Laboratory OR PHYS 1100 Essentials of Physics OR PHYS 1111 General Physics I AND PHYS 1113 General Physics I Laboratory	4	D-	GE	F, S F, S F	Appropriate math 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 Laboratory	2	C-		F, S, D	RCET 1153A, 1153B, 1155A, 1155B	RCET 1154A
RCET 1156B: Digital Control Devices Laboratory	2	C-		F, S, D	RCET 1155B	RCET 1154B
Total	16					
Semester Three						
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 Laboratory	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 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
Total	15					
Semester Five						
GE Objective 2: COMM 1101 Fundamentals of Oral Communication	3	D-	GE	F, S		
RCET 3371: Advanced Programming Techniques and GUI Development	4	C-		D	RCET 2265, 2271	
RCET 3373: Advanced Computer Architecture and Embedded Systems Theory	5	C-		D	RCET 1154B, 2251	RCET 3375
RCET 3375: Advanced Computer Architecture and Embedded Systems Laboratory	5	C-		D	RCET 1156B, 2253	RCET 3373
Total	17					
Semester Six						
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-			RCET 1372, PHYS 1101	
RCET 3374: Advanced Systems Analysis Theory	4	C-		D	RCET 2251, 2267	RCET 3376
RCET 3376: Advanced Systems Analysis Theory	5	C-		D	RCET 2253, 2268	RCET 3374
Total	16					

*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.)

2026-2027 Major Requirements		CR	GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9	15 cr. min
MAJOR REQUIREMENTS		79	1. Written English Any	3
RCET 1153A: Basic Electricity and DC Circuit Theory		4		
RCET 1153B: Basic Electricity and AC Circuit Theory		4	2. Spoken English COMM 1101	3
RCET 1154A: Analog Control Devices Theory		4	3. Mathematics RCET 1372	4
RCET 1154B: Digital Control Devices Theory		4	4. Humanities, Fine Arts, Foreign Lang.	
RCET 1155A: Basic Electricity and DC Circuit Lab		2		
RCET 1155B: Basic Electricity and AC Circuit Lab		2		
RCET 1156A: Analog Control Devices Laboratory		2	5. Natural Sciences	
RCET 1156B: Digital Control Devices Laboratory		2	PHYS 1101/L or 1100 or 1111/1113	4
RCET 2251: Systems Analog and Digital Theory		6		
RCET 2253: Systems Analog and Digital Laboratory		5		
RCET 2265: Computer Fundamentals and Introduction to Programming		4	6. Behavioral and Social Science	
RCET 2267: Radio Frequency Transmission Theory		6	TGE 1150 (Recommended)	3
RCET 2268: Radio Frequency Transmission Lab		5	One Course from EITHER Objective 7 OR 8	
RCET 2271: Introduction to Lab Simulation Software		2	7. Critical Thinking	
RCET 3371: Advanced Programming Techniques and GUI Development		4	8. Information Literacy	
RCET 3372: Advanced Applications of Calculus for Robotics		4	9. Cultural Diversity	
RCET 3373: Advanced Computer Architecture and Embedded Systems Theory		5	General Education Elective to reach 36 cr. min.	
RCET 3374: Advanced Systems Analysis Theory		4	Total GE	17
RCET 3375: Advanced Computer Architecture and Embedded Systems Laboratory		5	Undergraduate Catalog and GE Objectives by Catalog Year	
RCET 3376: Advanced Systems Analysis Theory		5		
COMM 1101: Fundamentals of Oral Communication (counted in GE Obj. 2)				
RCET 1372: Calculus for Electronics (counted in GE Obj. 3)			MAP Credit Summary	CR
PHYS 1101: Elements of Physics AND PHYS 1101L: Elements of Physics Laboratory OR PHYS 1100: Essentials of Physics OR PHYS 1111: General Physics I AND PHYS 1113: General Physics I Laboratory (counted in GE Obj. 5)			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)	X
			Minimum 15 cr. Upper Division in Major (0 cr. Associate)	X
			Minimum 36 cr. Upper Division Overall (0 cr. Associate)	X
			Minimum of 120 cr. Total (60 cr. Associate)	X
Advising Notes			MAP Completion Status (for internal use only)	
				Date
			CAA or COT:	GR 06/09/2026
			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	