

## **Catalog Year 2025-2026**

ATC, Robotics and Communications Systems Engineering Technology

(For i	internal use only)
$\boxtimes$	No change

☐ 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 1: ENGL 1101 Writing and Rhetoric I <b>OR</b>				F, S, Su	Appropriate placement score	
NGL 1102 Writing and Rhetoric II <b>OR</b>		D-	GE	F, S, Su	Appropriate placement score	
GE Objective 2: COMM 1101 Fundamentals of Oral Comm				F, S		
RCET 1153A: Basic Electricity and DC Circuit Theory	4	_		г.с	Minimum score of ALEKS 30	DCFT 1152D
	4	C-		F, S	or equivalent	KCE1 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 1155A, 1153B
Total	15					
Semester Two	•					
GE Objective 5: PHYS 1101/L Elements of Physics and Lab				F, S		
R PHYS 1100 Essentials of Physics OR		D-	GE	F, S	Appropriate placement score	
PHYS 1111/1113 General Physics I and Lab				F		
RCET 1154A: Analog Control Devices Theory	4	C-		г с г	RCET 1153A, 1153B, 1155A,	DCET 11EGA
	4	C-		F, S, D	1153B	RCET 1153B RCET 1153B RCET 1155B RCET 1155B RCET 1155A, 1153B RCET 1155A, 1153B RCET 1155A, 1153B RCET 1156A RCET 1156B RCET 1156B RCET 1154A RCET 1154B RCET 1253 RCET 2253 RCET 2251 RCET 2251 RCET 2251 RCET 2267 RCET 3375
RCET 1154B: Digital Control Devices Theory	4	C-		F, S, D	RCET 1153B	RCET 1156B
RCET 1156A: Analog Control Devices Lab	2	_		г с г	RCET 1153A, 1153B, 1155A,	DCET 1154A
-	2	C-		F, S, D	1155B	NCEI 1134A
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			0.5		MATH 1144 or 1147 or RCET	
	4	C-	GE	F, S	1154A	
RCET 2251: Systems Analog and Digital Theory	_				PHYS 1101/L, 1100,	DOET 2252
	6	C-		F, S	1111/1113	RCE1 2253
RCET 2253: Systems Analog and Digital Lab	5	C-		F, S	RCET 1156B	RCET 2251
RCET 2271: Introduction to Lab Simulation Software	2	C-		F, S		
Total						
Semester Four			,			
RCET 2265: Computer Fundamentals and Introduction to				F. C		
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	
Total	15				· · · ·	
Semester Five	•					
RCET 3371: Advanced Programming Techniques and GUI					DOET 2205 2274	
Development	4	C-		D	RCET 2265, 2271	
RCET 3373: Advanced Computer Architecture and	<b>-</b>	_		_	DOET 1154D 2254	DCET 2275
Embedded Systems Theory	5	C-		D	RCET 1154B, 2251	KCE1 33/5
RCET 3375: Advanced Computer Architecture and	<b>-</b>	_		_	DOET 445CD 2252	DCET 2272
Embedded Systems Lab	5	C-		D	RCET 1156B, 2253	RCE1 3373
Total	14					
Semester Six			1	1		
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
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<sup>\*</sup>GE=General Education Objective, UU=Upper Division University, UM= Upper Division Major

<sup>\*\*</sup>See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.)

Techn	ology		Page 2	
CR		0 cr.		
		min		
_	1. Written English		0-3	
+			0-3	
			0-3	
			4	
ļ	4. Humanities, Fine Arts, For	eign Lang.		
2				
2				
2	5. Natural Sciences			
2	PHYS 1101/L or 1100 or 111	1/1113	4	
6				
5				
_	6. Behavioral and Social Scie	nce		
4				
6				
5	One Course from EITHER Ob	jective 7 OR 8		
2	7. Critical Thinking			
4	8. Information Literacy			
-	9. Cultural Diversity			
5				
	General Education Elective t	o reach 36 cr. min.	<u> </u>	
5			11	
5	http://coursecat.isu.edu/underg	raduate/programs/		
ENGL 1101: Writing and Rhetoric I <b>OR</b>				
ENGL 1102: Writing and Rhetoric II <b>OR</b>			CR	
COMM 1101: Fundamentals of Oral Communication (counted in GE Obj. 1 or 2)			75	
			11	
Obj. 3)	Upper Division Free Electi	0		
	Free Electives to reach 12	0		
		86		
Obj. 5)				
	·		Confirmed	
	Minimum 36 cr. General Edu			
	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)			
1				
	MAP Completion Status	for internal use only)		
Advising Notes				
		Dute		
	244 227	00.05/07/0005		
	CAA or COT:	GR 06/27/2025		
	Complete College Americ	an Momentum Year		
	Complete College Americ Math and English course	an Momentum Year in first year-Specific GE MATH cours	se identified	
	Complete College Americ Math and English course 9 credits in the Major are	an Momentum Year in first year-Specific GE MATH cours a in first year	se identified	
	Complete College Americ Math and English course	an Momentum Year in first year-Specific GE MATH cours a in first year	se identified	
	CR 75 4 4 4 4 2 2 2 2 6 5 4 6 5 4 5 5 5	Satisfy Objectives 1,2,3,4  75  1. Written English  4  2. Spoken English  3. Mathematics  4. Humanities, Fine Arts, Fore  2  2  5. Natural Sciences  PHYS 1101/L or 1100 or 111:  6  5  6. Behavioral and Social Scie  6  7. Critical Thinking  8. Information Literacy  9. Cultural Diversity  5  General Education Elective to 4  5  Undergraduate Catalog and http://coursecat.isu.edu/underg  MAP Credit Summary  Major  General Education  Obj. 3)  Upper Division Free Electi  Free Electives to reach 12  Obj. 5)  Graduation Requirement M  Minimum 36 cr. Upper Divisi  Minimum 36 cr. Upper Divisi  Minimum 36 cr. Total (60)	CR Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9  75  1. Written English ENGL 1101  4 ENGL 1102  4 2. Spoken English COMM 1101  4 3. Mathematics RCET 1372  4 4. Humanities, Fine Arts, Foreign Lang.  2 5. Natural Sciences  2 PHYS 1101/L or 1100 or 1111/1113  6 6  5 0ne Course from EITHER Objective 7 OR 8  2 7. Critical Thinking  4 8. Information Literacy  9. Cultural Diversity  5 General Education Elective to reach 36 cr. min.  4 5 Undergraduate Catalog and GE Objectives by Catalog Year http://coursecat.isu.edu/undergraduate/programs/  MAP Credit Summary  Major  General Education  Obj. 3) Upper Division Free Electives to reach 36 credits  Free Electives to reach 120 credits  TOTAL  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)	