Idaho State University

Catalog Year 2025-2026
AAS, Robotics and Communications Systems Engineering Technology

(For internal use only)
☒ *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	3	D-	GE	F, S, Su	Appropriate placement score	
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 1155A, 1153B
Total	15					
Semester Two						
GE Objective 5: PHYS 1101/L Elements of Physics and Lab **OR** PHYS 1100 Essentials of Physics **OR** PHYS 1111/1113 General Physics I and Lab	4	D-	GE	F, S F, S F	Appropriate placement 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 Lab	2	C-		F, S, D	RCET 1153A, 1153B, 1155A, 1155B	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-	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 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 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 Comm	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 Lab	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.)

2025-2026 Major Requirements	CR
MAJOR REQUIREMENTS	**79**
RCET 1153A: Basic Electricity and DC Circuit Theory	4
RCET 1153B: Basic Electricity and AC Circuit Theory	4
RCET 1154A: Analog Control Devices Theory	4
RCET 1154B: Digital Control Devices Theory	4
RCET 1155A: Basic Electricity and DC Circuit Lab	2
RCET 1155B: Basic Electricity and AC Circuit Lab	2
RCET 1156A: Analog Controls Devices Lab	2
RCET 1156B: Digital Control Devices Lab	2
RCET 2251: Systems Analog and Digital Theory	6
RCET 2253: Systems Analog and Digital Lab	5
RCET 2265: Computer Fundamentals and Introduction to Programming	4
RCET 2267: Radio Frequency Transmission Theory	6
RCET 2268: Radio Frequency Transmission Lab	5
RCET 2271: Introduction to Lab Simulation Software	2
RCET 3371: Advanced Programming Techniques and GUI Development	4
RCET 3372: Advanced Applications of Calculus for Robotics	4
RCET 3373: Advanced Computer Architecture and Embedded Systems Theory	5
RCET 3374: Advanced Systems Analysis Theory	4
RCET 3375: Advanced Computer Architecture and Embedded Systems Lab	5
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)	
PHYS 1101: Elements of Physics and Lab **OR** PHYS 1100: Essentials of Physics **OR** PHYS 1111/1113: General Physics I and Lab (counted in GE Obj. 5)	

GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9		**15 cr. min**
1. Written English	ENGL 1101	3
2. Spoken English	COMM 1101	3
3. Mathematics	RCET 1372	4
4. Humanities, Fine Arts, Foreign Lang.		
5. Natural Sciences		
PHYS 1101/L or 1100 or 1111/1113		4
6. Behavioral and Social Science		
TGE 1150		3
One Course from EITHER Objective 7 OR 8		
7. Critical Thinking		
8. Information Literacy		
9. Cultural Diversity		
General Education Elective to reach 36 cr. min.		
Total GE		**17**

Undergraduate Catalog and GE Objectives by Catalog Year
http://coursecat.isu.edu/undergraduate/programs/

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)	**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 07/03/2025

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

Form Revised 2.14.2023