Idaho State University

Catalog Year 2026-2027
B.S., Statistics
The program starts in even-numbered years.

(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	C-	GE	F, S, Su	Appropriate placement score	
GE Objective 3: MATH 1170 Calculus I	4	C-	GE	F, S, Su	Appropriate placement score or MATH 1144 or MATH 1147	
GE Objective 7: CS 1181 Computer Science & Programming I	3	C	GE	F, S	MATH 1143 or MATH 1147	
GE Objective 4	3		GE	F, S, Su		
Free Electives	2			F, S, Su		
Total	15					
Semester Two						
GE Objective 1: ENGL 1102 Writing and Rhetoric II	3	C-	GE	F, S, Su	ENGL 1101 or equivalent	
MATH 1175 Calculus II	4	C-		F, S, Su	MATH 1170	
MATH 2240 Linear Algebra	3	C-		F, S, Su	MATH 1170	
MATH 3350 Statistical Methods	3		UM	F, S	MATH 1160 or MATH 1170	
Free Electives	2			F, S, Su		
Total	15					
Semester Three						
MATH 2275 Calculus III	4	C-		F, S	MATH 1175	
MATH 3352 Introduction to Probability	3	C-	UM	F, S	MATH 1175 or permission of instructor	
Free Electives (Math 2287 Recommended)	3					
GE Objective 4	3		GE	F, S, Su		
GE Objective 6	3		GE	F, S, Su		
Total	16					
Semester Four						
MATH 3326 Elementary Analysis	3	C-	UM	F, S	MATH 1175 and either MATH 2240 or MATH 2287	
Statistics Elective (see list)	3		UM	F, S	See catalog.	
GE Objective 5 lecture	3-4		GE	F, S, Su	See catalog.	
GE Objective 6	3		GE	F, S, Su		
Free Electives	2			F, S, Su		
Total	14-15					
Semester Five						
MATH 4457 Applied Regression Analysis	3		UM	EF	MATH 3350 or MATH 3352 or permission of instructor	
Statistics Elective (see list)	3		UM	F, S		
GE Objective 5 lecture + lab	4-5		GE	F, S, Su		
Upper Division Free Electives	3		UU			
Free Electives	2					
Total	15-16					
Semester Six						
MATH 4459 Applied Multivariate Analysis	3		UM	OS	MATH 2240 and one of the following: MATH 3350, 4457, 4458	
GE Objective 9	3		GE	F, S, Su		
Free Electives	6					
GE Objective 2	3		GE	F, S, Su		
Total	15					
Semester Seven						
MATH 4450 Mathematical Statistics I	3		UM	OF	MATH 3326 and MATH 3352	
Statistics Elective (see list)	3		UM	F, S, D		
Upper Division Free Electives	3		UU			
Free Electives	6					
Total	15					
Semester Eight						
MATH 4451 Mathematical Statistics II	3		UM	ES	MATH 4450	
Free Electives	11					
Total	14					

*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	
Mathematics Core	**14**
MATH 1170 Calculus I (Counted in Objective 3)	
MATH 1175 Calculus II	4
MATH 2275 Calculus III	4
MATH 2240 Linear Algebra	3
MATH 3326 Elementary Analysis	3
CS 1181 Computer Science & Programing I^ (Counted in Objective 7)	
Statistics Major Requirements	**18**
MATH 3350 Statistical Methods	3
MATH 3352 Introduction to Probability	3
MATH 4450 Mathematics Statistics I	3
MATH 4451 Mathematics Statistics II	3
MATH 4457 Applied Regression Analysis	3
MATH 4459 Applied Multivariate Analysis	3
Choose 9 Upper Division credits from approved major list:	**9**
MATH 3310 Mathematical Modeling	3
MATH 3327 Vector Analysis	3
MATH 3360 Differential Equations	3
MATH 4406 Advanced Linear Algebra	3
MATH 4423 Introduction to Real Analysis I	3
MATH 4424 Introduction to Real Analysis II	3
MATH 4441 Introduction to Numerical Analysis I	3
MATH 4442 Introduction to Numerical Analysis II	3
MATH 4453 Topics in Statistics^^	1-3
MATH 4458 Experimental Design	3
MATH 4405 Numerical Linear Algebra (future elective)	
Others: Deep Learning, Databases, Optimization	

GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9		**36 cr. min**
1. Written English (6 cr. min)	ENGL 1101	3
	ENGL 1102	3
2. Oral Communication (3 cr. min)	COMM 1101 or BIOL 1104	3
3. Mathematics (3 cr. min)	MATH 1170	4
4. Humanities, Fine Arts, Foreign Lang. **(2 courses; 2 categories; 6 cr. min)**		
5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)**		
6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)**		
One Course from EITHER Objective 7 OR 8 **(1course; 3 cr. min)**		
7. Critical Thinking	CS 1181	3
8. Information Literacy		
9. Cultural Diversity **(1 course; 3 cr. min)**		
General Education Elective to reach 36 cr. min. **(if necessary)**		
Total GE		**38**

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

MAP Credit Summary	**CR**
Major	41
General Education	38
Upper Division Free Electives to reach 36 credits	6
Free Electives to reach 120 credits	35
TOTAL	120

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

Student must select additional Upper Division credits to reach 36.
^Two courses (ME 1165 & 2266) may be substituted for CS 1181.
^^ MATH 4453 may be repeatable up to 3 credits.
Statistic Electives courses should be discussed with the statistics advisor. These courses are taught infrequently, and many require additional prerequisites.

MAP Completion Status (for internal use only)

	Date
CAA or COT:	

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 5.12.2026