Idaho State University

Catalog Year 2026-2027
B.S., Mathematics

(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	MATH 1144 or MATH 1147 or appropriate placement score	
GE Objective 7: CS 1181 Computer Science & Programming I	3		GE	F, S	MATH 1143 or MATH 1144 or MATH 1147 or CS 1111 and MATH 1108 or MGT 1116	
GE Objective 4	3		GE	F, S, Su		
Free Electives	1					
Total	14					
Semester Two						
GE Objective 1: ENGL 1102 Writing and Rhetoric II	3		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	
GE Objective 4	3		GE	F, S, Su		
GE Objective 6	3		GE	F, S, Su		
Total	16					
Semester Three						
MATH 2275 Calculus III ***	4	C-		F, S	MATH 1175	
MATH 2287 Foundations of Mathematics ***	3	C-		F	MATH 1170	
GE Objective 2	3		GE	F, S, Su		
GE Objective 5: No lab	3		GE	F, S, Su		
Free Electives	2					
Total	15					
Semester Four						
MATH 3326 Elementary Analysis	3	C-	UM	F, S	MATH 1175 and either MATH 2240 or MATH 2287	
MATH 3360 Differential Equations ***	3	C-	UM	F, S	MATH 1175; MATH 2240 or MATH 2275 recommended	
GE Objective 6	3		GE	F, S, Su		
GE Objective 9	3		GE	F, S, Su		
Free Electives	3					
Total	15					
Semester Five						
MATH 4423 Intro to Real Analysis I	3		UM	F	MATH 2240 and MATH 3326	
MATH 3XXX (one of 3327, 3335, 3343, 3352 ***, 3362)	3		UM		See Catalog.	
GE Objective 5: w/lab	4		GE	F, S, Su		
Free Electives	5					
Total	15					
Semester Six						
MATH 4000 level course	3		UM		See Catalog.	
MATH 3XXX (one of 3327, 3335, 3343, 3352 ***, 3362)	3		UM		See Catalog.	
Free Electives	9					
Total	15					
Semester Seven						
MATH 4407 Modern Algebra I	3		UM	F	MATH 2240 and either MATH 2287 or MATH 3335	
MATH 4000 level course	3		UM		See Catalog.	
Upper Division Electives	3		UU			
Free Electives	6					
Total	15					
Semester Eight						
MATH 4474 Topics in Mathematics	3		UM	S		
Upper Division Free Electives	6		UU			
Free Electives	6					
Total	15					

* 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.)
*** This course will be a prerequisite for some of the elective options within this major.

2026-2027 Major Requirements	CR
MAJOR REQUIREMENTS	
Mathematics Core:	**14**
MATH 1170 Calculus I (credits counted in GE)	
MATH 1175 Calculus II	4
MATH 2275 Calculus III	4
MATH 2240 Linear Algebra	3
MATH 3326 Elementary Analysis	3
CS 1181 CS & Programming I (credits counted in GE)	
Additional Required Courses:	**15**
MATH 2287 Foundations of Mathematics	3
MATH 3360 Differential Equations	3
MATH 4407 Modern Algebra I	3
MATH 4423 Introduction to Real Analysis I	3
MATH 4474 Topics in Mathematics	3
Choose two of the following courses:	**6**
MATH 3327 Vector Analysis	3
MATH 3335 Elementary Number Theory	3
MATH 3343 Modern Geometry	3
MATH 3352 Intro to Probability	3
MATH 3362 Intro to Complex Variables	3
Choose 6 credits of 4000-level coursework from Mathematics and/or Statistics	**6**

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 / 8. Information Literacy	CS 1181	3
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	9
Free Electives to reach 120 credits	32
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

1. Two courses (ME 1165 and ME 2266) may be substituted for CS 1181.
2. The MATH 4407/4408 sequence is offered in OF/ES.
3. A student may take MATH 4407 in Semester Five and MATH 4423 in Semester Seven.
4. A student may take MATH 4474 in Semester Six.

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