Bachelor of Arts in Mathematics

Sample Plan

The academic plan below is one pathway through the degree/certificate. It includes all requirements, taking into account recommendations from program faculty. Each student's plan may vary according to their initial course placement (https://catalog.uaa.alaska.edu/academicpoliciesprocesses/academicstandardsregulations/courseplacement/), intended course load, additional majors and/or minors, and their placement into required prerequisite courses. Any change in the plan below can have an unforeseen impact on the rest of the plan. Therefore, it is very important to meet with your academic advisor to verify your personal academic plan.

Please review the following terms, definitions, and resources associated with the sample academic plan below.

- Each course in the far left column links to a pop-up bubble with a
 course description, prerequisite requirements, and associations with
 university requirements. For example, if a course fulfills a general
 education requirement, you will see that in the pop-up bubble.
- GER: indicates a General Education Requirement (https://catalog.uaa.alaska.edu/undergraduateprograms/baccalaureaterequirements/gers/). GERs that also count toward degree/certificate requirements appear as a specific course in the plan. For these courses, "GER" is not indicated explicitly in the table, but if you click on the course, you will see the course's GER status in the pop-up bubble.
- Program Elective: indicates a specific course selection determined by program faculty to fulfill a degree/certificate requirement.
 Students should seek assistance from their academic advisor.
- Elective: indicates an open selection of 100-400 level university courses to fulfill elective credits needed to meet the minimum total credits toward the degree/certificate.
- Upper Division Program Elective: indicates a specific 300-400 level course selection determined by the program faculty to fulfill a degree/certificate requirement. Students should seek assistance from their academic advisor.
- **Upper Division Elective**: indicates an open selection of 300-400 level courses to fulfill elective credits needed to meet the minimum total credits toward the degree/certificate. These courses must be upper division in order to meet General University Requirements for the particular degree/certificate type.

First Year

Fall		Credits
MATH A251	Calculus I 1	4-6
or	or F.A.T. Calculus I	
MATH A25	1F	
WRTG A111	Writing Across Contexts	3
GER Fine Arts		3
GER Oral Com	3	

Elective		3
	Credits	16-18
Spring		
MATH A252	Calculus II	4-6
or	or F.A.T. Calculus II	
MATH A252	2F	
MATH A264	Introduction to the Mathematics Major	1
WRTG A213	Writing and the Sciences	3
GER Natural Sciences		3
GER Natural So	ciences Lab	1
Program Electiv	ve (COMM or THR)	3
	Credits	15-17
Second Year		
Fall		
MATH A253	Calculus III	4
PHIL A101	Introduction to Logic	3
GER Alaska Na	ntive-Themed	3
GER Natural So	ciences	3
Program Electiv	ve (ENGL/WRTG)	3
-	Credits	16
Spring		
MATH A265	Fundamentals of Mathematics	3
GER Humanitie		3
GER Intercultur		3
	ve (COMM or THR)	3
_	Program Elective (Statistics)	3
оррег Бтункон	Credits	15
Third Year	Credits	13
Fall		
MATH A306	Discrete Methods	3
MATH A314	Linear Algebra	3
MATH A401	Introduction to Real Analysis	3
GER Social Sci	•	
Elective	ences	3
Elective	Co. Ph.	
a •	Credits	15
Spring		2
GER Social Sci	ences	3
Elective		3
Elective		3
	Program Elective (Analysis & Topology)	3
Upper Division	Program Elective (Applied Math)	3
	Credits	15
Fourth Year		
Fall		
MATH A420	Historical Mathematics	3
Elective		3
Upper Division Elective		3
Upper Division Program Elective (Analysis & Topology,		3
Applied Math, S	Statistics, or Other Mathematics Courses)	

Upper Division Program Elective (Capstone Experience)		3
Mathematics Po	ortfolio and Exam ²	
	Credits	15
Spring		
MATH A405	Introduction to Abstract Algebra	3
Elective		1
Program Elective (MATH A305 or MATH A309)		3
Upper Division Elective		3
Upper Division Program Elective (Analysis & Topology, Applied Math, Statistics, or Other Mathematics Courses)		3
Credits		13
	Total Credits	120-124

 $^{^{1}\,}$ MATH A251 and MATH A251F have prerequisites.

² Majors are required to complete a Mathematics Portfolio and a Mathematics Knowledge Exam in the fourth year.