Bachelor of Science 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 (http://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 (http://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.

Course	Title	Credits
First Year		
Fall		
MATH A251	Calculus I	4
WRTG A111	Writing Across Contexts	3
GER Natural Sc	3	
GER Oral Communication Skills		

Elective		1
	Credits	14
Spring		
MATH A252	Calculus II	4
MATH A264	Introduction to the Mathematics Major	1
GER Fine Arts		3
GER Natural Sci	ences Lab	1
GER Natural Sci	GER Natural Sciences Lecture	
GER Written Co.	mmunication Skills (recommend	3
WRTG A213)		
	Credits	15
Second Year		
Fall		
MATH A253	Calculus III	4
MATH A371	Stochastic Processes	3
or	or Mathematical Statistics	
MATH A407	or Probability and Statistics	
or	or Intermediate Statistics for the	
STAT A307	Sciences	
or STAT A308	or Scientific Sampling	
or 01 A308	or Regression Analysis or Analysis of Variance	
STAT A402	or Time Series Analysis	
or	or Multivariate Statistics	
STAT A403	or Statistical Methods	
or		
STAT A404		
or		
STAT A407 or		
STAT A408		
or		
STAT A410		
GER Alaska Native-Themed		3
GER Humanities	3	3
GER Social Scie	nces	3
	Credits	16
Spring		
MATH A265	Fundamentals of Mathematics	3
MATH A314	Linear Algebra	3
GER Diversity &	z Inclusion	3
GER Humanities		3
Elective		3
	Credits	15
Third Year		
Fall		
MATH A306	Discrete Methods	3
MATH A401	Introduction to Real Analysis	3
	Program Elective (Analysis & Topology)	3
	Program Elective (Statistics)	3
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Upper Division Program Elective ¹		
Credits	15	
Spring		
MATH A405 Introduction to Abstract Algebra	3	
GER Social Sciences	3	
Upper Division Program Elective (Applied Math)	3	
Upper Division Program Elective (Statistics)	3	
Upper Division Program Elective ¹	3	
Credits	15	
Fourth Year		
Fall		
Elective	2	
Elective	3	
Elective	3	
GER Integrative Capstone	3	
Mathematics Capstone Experience (MATH A495A,	1	
MATH A495B, MATH A496, or MATH A498)		
Upper Division Program Elective (Statistics)	3	
Credits	15	
Spring		
Elective	3	
Elective	3	
Elective	3	
Upper Division Program Elective (Other Mathematics	3	
Course)		
Upper Division Program Elective (Statistics)	3	
Credits	15	
Total Credits	120	

Choose 3 additional credits (6 credits in total) from the Analysis and Topology, Applied Math, Statistics, or Other Mathematics Course categories.