

Bachelor of Science in Biological Sciences

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
CHEM A105 & A105L	General Chemistry I and General Chemistry I Laboratory	4
MATH A251	Calculus I	4
WRTG A111	Writing Across Contexts	3
GER Fine Arts		3

GER Oral Communication Skills	3
Credits	17

Spring

BIOL A108	Principles and Methods in Biology	6
CHEM A106 & A106L	General Chemistry II and General Chemistry II Laboratory	4
MATH A252	Calculus II	4
WRTG A213	Writing and the Sciences	3
Credits		17

Second Year

Fall

BIOL A242	Fundamentals of Cell Biology	3
BIOL A252	Principles of Genetics	3
CHEM A321	Organic Chemistry I	3
STAT A253	Applied Statistics for the Sciences	4
or	or Probability and Statistics	
STAT A307		

GER Social Sciences	3
Credits	16

Spring

BIOL A243	Experiential Learning: Cell Biology and or BIOL A273 Genetics	4
	or Experiential Learning: Ecology and Evolution	
BIOL A271	Principles of Ecology	3
CHEM A322	Organic Chemistry II	3
GER Humanities		3
Upper Division Program Elective (MBIO A340 for Microbiological Science option)		3

Credits	16
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Third Year

Fall

BIOL A288	Principles of Evolution	3
CHEM A323L	Organic Chemistry Laboratory	2
PHYS A123 & A123L	College Physics I and College Physics I Laboratory	4
GER Humanities		3
Upper Division Program Elective		3

Credits	15
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Spring

PHYS A124 & A124L	College Physics II and College Physics II Laboratory	4
GER Social Sciences		3
Upper Division Program Elective (BIOL A455 for Microbiological Sciences Option)		3
Upper Division Program Elective (MBIO A342 for Microbiological Sciences Option)		3

Credits	13
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Fourth Year**Fall**

BIOL A492	Undergraduate Seminar	1
GER Integrative Capstone		3
GER Intercultural Fluency		3
Upper Division Program Elective		3
Upper Division Program Elective (MBIO A460 or MBIO A462 or BIOL A471 for Microbiological Sciences Option)		3
Credits		13

Spring

GER Alaska Native-Themed		3
Elective (Not needed for Microbiological Sciences option)		1
Upper Division Elective		3
Upper Division Program Elective		3
Upper Division Program Elective (MBIO A440 or MBIO A450 or MBIO A468 for Microbiological Sciences option)		3
Credits		13
Total Credits		120