Bachelor of Science in Natural 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.

Sample Plan - Environmental Sciences Option

First Year		
Fall		**Credits**
CHEM A105 & A105L	General Chemistry I and General Chemistry I Laboratory	4
GEOL A115 & A115L	Dangerous Earth and Dangerous Earth Laboratory	4
WRTG A111	Writing Across Contexts	3
GER Oral Communication Skills		3
Program Elective: Math & Computational 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
STAT A253 or STAT A307	Applied Statistics for the Sciences or Probability and Statistics	4
WRTG A213	Writing and the Sciences	3
	Credits	**17**
Second Year		
Fall		
BIOL A271	Principles of Ecology	3
BIOL A288	Principles of Evolution	3
GER Humanities		3
Program Elective: Geology		3
Program Elective: Math & Computational Skills		3
	Credits	**15**
Spring		
PHIL A303	Environmental Ethics	3
GER Social Sciences		3
Program Elective: Biology & Microbiology		3
Program Elective: Math & Computational Skills		3
Program Upper Division Elective: Geology		3
	Credits	**15**
Third Year		
Fall		
BIOL A273	Experiential Learning: Ecology and Evolution	4
GEOG A470	Environmental Policy and Regulation in Alaska	3
Program Elective: Math & Computational Skills		3
Program Upper Division Elective: Biology & Microbiology		3
Program Upper Division Elective: Geology		3
	Credits	**16**
Spring		
ECON A210	Environmental Economics and Policy	3
GER Humanities		3
Program Upper Division Elective: Biology & Microbiology		3
Program Upper Division Elective: Geology		3
Program Upper Division Elective: Social Sciences		3
	Credits	**15**

Fourth Year

Fall

GER Fine Arts		3
Program Upper Division Elective: Biology & Microbiology		3
Program Upper Division Elective: Geology		3
Program Upper Division Elective: Social Sciences		3
	Credits	**12**

Spring

BIOL A492	Undergraduate Seminar	1
GER Alaska Native-Themed		3
GER Intercultural Fluency		3
Program Elective: Biology & Microbiology		3
Program Upper Division Elective: Biology & Microbiology		3
	Credits	**13**
	Total Credits	**120**

Sample Plan - Pre-Health Professions Option

First Year

Fall

		Credits
BIOL A108	Principles and Methods in Biology	6
CHEM A105 & A105L	General Chemistry I and General Chemistry I Laboratory	4
WRTG A111	Writing Across Contexts	3
Program Elective: Math & Computational Skills		3
	Credits	**16**

Spring

BIOL A242	Fundamentals of Cell Biology	3
CHEM A106 & A106L	General Chemistry II and General Chemistry II Laboratory	4
WRTG A213	Writing and the Sciences	3
GER Oral Communication Skills		3
Program Elective: Math & Computational Skills (GER Quantitative Skills if not yet met)		3
	Credits	**16**

Second Year

Fall

CHEM A321	Organic Chemistry I	3
BIOL A252	Principles of Genetics	3
GER Fine Arts		3
Program Elective: Math & Computational Skills		3
Program Elective: Social Sciences		3
	Credits	**15**

Spring

CHEM A441 or MBIO A340	Principles of Biochemistry I or Microbial Biology	3
GER Humanities		3
GER Social Sciences		3
Program Elective: Natural Sciences		3
Program Elective: Social Sciences		3
	Credits	**15**

Third Year

Fall

PHYS A123 & A123L	College Physics I and College Physics I Laboratory	4
GER Humanities		3
GER Social Sciences		3
Program Upper Division Elective: Natural Sciences		3
Program Upper Division Elective: Social Sciences		3
	Credits	**16**

Spring

PHYS A124 & A124L	College Physics II and College Physics II Laboratory	4
GER Alaska Native-Themed		3
GER Intercultural Fluency		3
Program Upper Division Elective: Natural Sciences		3
Program Upper Division: Social Sciences		3
	Credits	**16**

Fourth Year

Fall

BIOL A492	Undergraduate Seminar	1
GER Integrative Capstone		3
Program Elective: Natural Sciences		3
Program Upper Division Elective: Natural Sciences		3
Program Upper Division Elective: Social Sciences		3
	Credits	**13**

Spring

Program Upper Division Elective		3
Program Upper Division Elective		3
Program Upper Division Elective		3
Program Upper Division Elective: Natural Sciences		3
Program Upper Division Elective: Natural Sciences		3
	Credits	**15**
	Total Credits	**122**