

# Bachelor of Science in Geological Sciences

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

GEOL A111 & A111L or GEOL A115 <i>and</i> GEOL A115L	Planet Earth or Dangerous Earth <i>and</i> Dangerous Earth Laboratory	4
MATH A251	Calculus I	4
WRTG A111	Writing Across Contexts	3
<b>Credits</b>		<b>15</b>

## Spring

CHEM A106 & A106L	General Chemistry II and General Chemistry II Laboratory	4
GEOL A221	Journey Through Time	4
PHYS A123 & A123L	College Physics I and College Physics I Laboratory	4
WRTG A213	Writing and the Sciences	3
<b>Credits</b>		<b>15</b>

## Second Year

### Fall

GEOL A225	Earth Surface Processes	3
GEOL A321	Mineralogy	4
PHYS A124 & A124L	College Physics II and College Physics II Laboratory	4
GER Oral Communication Skills (Tier 1 exception approved)		3
<b>Credits</b>		<b>14</b>

### Spring

GEOL A310	Professional Practices in Geology	3
GEOL A315	Geological Data Visualization and Analysis	3
GEOL A322	Igneous and Metamorphic Petrology	4
GER Fine Arts		3
GER Humanities		3
<b>Credits</b>		<b>16</b>

## Third Year

### Fall

GEOL A331	Sedimentology and Stratigraphy	4
GEOL A461	Geochemistry	3
GER Alaska-Native Themed		3
GER Humanities		3
Upper Division Elective		3
<b>Credits</b>		<b>16</b>

### Spring

GEOL A335	Structural Geology	4
GER Intercultural Fluency		3
Elective		3
Upper Division Program Elective		3
Upper Division Program Elective		3
<b>Credits</b>		<b>16</b>

**Fourth Year****Fall**

GEOL A345	Hydrogeology	3
GER Integrative Capstone		3
GER Social Sciences		3
Elective		1
Upper Division Program Elective		3
<b>Credits</b>		<b>13</b>

**Spring**

GEOL A480	Geologic Field Methods	3
GER Social Sciences		3
Elective		3
Upper Division Program Elective		3
<b>Credits</b>		<b>12</b>

**Summer**

GEOL A480	Geologic Field Methods (or Geology field camp) <sup>1</sup>	3
<b>Credits</b>		<b>3</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> *Geology field camps offered through other accredited academic institutions must be approved by the Department of Geological Sciences. See the catalog.*