

Bachelor of Science in Geomatics

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		
CSCE A101	Introduction to Computer Science	3
GIS A101	Introduction to Geographic Information Systems	3
MATH A151	College Algebra for Calculus	4

WRTG A111	Writing Across Contexts	3
Credits		13

Spring

MATH A152	Trigonometry	3
GER Humanities ¹		3
GER Oral Communication Skills		3
GER Social Sciences ¹		3
GER Written Communication Skills (200-level)		3
Credits		15

Second Year

Fall

BA A241	Business Law I	3
MATH A251	Calculus I	4-6
or	or F.A.T. Calculus I	
MATH A251F		
STAT A253	Applied Statistics for the Sciences	4
GER Fine Arts		3
Program Elective ²		3
Credits		17-19

Spring

GIS A201	Intermediate Geographic Information Systems	3
MATH A252	Calculus II	4-6
or	or F.A.T. Calculus II	
MATH A252F		
Elective		3
Program Elective (w/ lab) ²		4
GER Social Sciences		3
Credits		17-19

Third Year

Fall

GIS A351	Remote Sensing	3
GIS A301	Web GIS	3
MATH A314	Linear Algebra	3
Program Elective ²		3
Program Elective (GIS Concentration)		3
Credits		15

Spring

BA A300	Organizational Theory and Behavior	3
GIS A466	Spatial Analysis	3
PHIL A305	Professional Ethics	3
Elective		3
Program Elective (GIS Concentration)		3
Credits		15

Fourth Year

Fall

GIS A458	Spatial Data Management	3
GIS A467	Image Analysis	3
Elective		3

Program Elective	3
Upper Division Program Elective (GIS Concentration)	3
Credits	15
Spring	
ESM A450 Economic Analysis and Operations	3
GEO A460 Geomatics Capstone Project	3
Upper Division Elective	3
Upper Division Elective	3
Upper Division Program Elective (GIS Concentration)	3
Credits	15
Total Credits	122-126

¹ Choose a course that also fulfills the Alaska Native-Themed GER.

² Three Natural Science Program Electives must be a PHYS selection.