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		
GEO A146	Geomatics Computations	3
GEO A156 & A156L	Geospatial Measurement I and Geospatial Measurement I Laboratory	3
MATH A151	College Algebra for Calculus	4
WRTG A111	Writing Across Contexts	3
Program Elective [1]		3
	Credits	**16**
Spring		
KIN A112	First Aid and CPR for Professionals	1
MATH A152	Trigonometry	3
GER Oral Communication Skills		3
GER Social Sciences [2]		3
GER Written Communication Skills (200-level)		3
Program Elective [1]		3
	Credits	**16**
Second Year		
Fall		
GEO A266 & A266L	Geospatial Measurement II and Geospatial Measurement II Laboratory	3
GIS A101	Introduction to Geographic Information Systems	3
MATH A251 or MATH A251F	Calculus I or F.A.T. Calculus I	4-6
STAT A253	Applied Statistics for the Sciences	4
GER Fine Arts [2]		3
	Credits	**17-19**
Spring		
GEO A267	Boundary Law I	3
GIS A201	Intermediate Geographic Information Systems	3
MATH A252 or MATH A252F	Calculus II or F.A.T. Calculus II	4-6
GER Humanities [2]		3
GER Social Sciences		3
	Credits	**16-18**
Third Year		
Fall		
BA A241	Business Law I	3
GEO A256 & A256L	Engineering Surveying and Engineering Surveying Laboratory	3
GEO A359	Geodesy and Map Projections	3
GIS A351	Remote Sensing	3
MATH A314	Linear Algebra	3
	Credits	**15**
Spring		
BA A300	Organizational Theory and Behavior	3
GEO A357	Photogrammetry	3
GEO A364	Spatial Data Adjustments	3
GEO A369	Cadastral Surveys	1
PHIL A305	Professional Ethics	3

Program Elective (w/ lab) [1]		4
	Credits	**17**
Fourth Year		
Fall		
ESM A450	Economic Analysis and Operations	3
GEO A410	High-Density Surveying	3
GEO A466 & A466L	Geopositioning and Geopositioning Laboratory	3
Program Elective		3
Program Elective (Surveying Concentration)		3
	Credits	**15**
Spring		
GEO A420	Point Cloud Analysis	3
GEO A457	Boundary Law II	3
GEO A460	Geomatics Capstone Project	3
Program Elective (Surveying Concentration)		3
	Credits	**12**
	Total Credits	**124-128**

[1] *Three Natural Science Program Electives must be a PHYS selection.*
[2] *Choose a course that also fulfills the Alaska Native-Themed GER.*