

Name \_\_\_\_\_ SID \_\_\_\_\_ Date \_\_\_\_\_

## 2006-07 BACHELOR OF SCIENCE, GEOLOGY

**This worksheet is to be used for advising purposes only and does not replace the catalog.**

Students must also meet the following requirements:

- The UAA General University Requirement (GUR)
- The General Education Requirements (GER)
- College of Arts and Sciences (CAS) Requirements

Some major requirements may also be used to satisfy the College of Arts and Sciences BS requirements.

Complete these required support courses (23-24 credits):

_____CHEM A105/L	General Chemistry I (4)
_____CHEM A106/L	General Chemistry II (4)
_____PHYS A123/L	Basic Physics I (4)
_____PHYS A124/L	Basic Physics II (4)
_____MATH A200	Calculus I (4)
_____AS A253	Applied Statistics for the Sciences (4)
<b>OR</b>	
_____AS A307	Probability and Statistics (3)

*Note: Math 201 Calculus II is highly recommended for majors in the geological sciences.*

Complete Geological Sciences core curriculum courses (40 credits):

_____GEOL A111	Physical Geology (4)
_____GEOL A221	Historical Geology (4)
_____GEOL A321	Mineralogy (4)
_____GEOL A322	Igneous and Metamorphic Petrology (4)
_____GEOL A335	Structural Geology (4)
_____GEOL A350	Geomorphology (4)
_____GEOL A360	Geochemistry (3)
_____GEOL A410	Research and Writing Techniques (3)
_____GEOL A452	Sedimentology and Stratigraphy (4)

Complete the following required field courses (at least 6 credits):

_____GEOL A480	Geologic Field Methods (3)
<b>AND</b>	
_____GEOL A481	Alaska Field Investigations (3)
<b>OR</b>	
_____	Geology Field Camp *(3-6)

*\*GEOL A480 and A481 are offered through UAA. Geology Field Camps are offered through other accredited academic institutions and must be approved by the Department of Geological Sciences. Credits must be transferable to UAA from the academic institution that is offering the course and must be completed with at least a minimum grade of 2.0.*

Students must select one of the following tracks in the geological sciences. Students may complete both tracks, but may not use the same courses to fulfill the requirements in each track.

### **General Geological Sciences Track**

Complete 13-14 credits from the following:

____	GEOL A320	Volcanology (3)
____	GEOL A325	Geology of Ore Deposits (3)
____	GEOL A340	Hydrogeology (3)
____	GEOL A380	Anchorage Field Studies (3)
____	GEOL A381	Kenai Peninsula Field Studies (3)
____	GEOL A382	Geologic Field Studies (3)
____	GEOL A421	Invertebrate Paleontology (4)
____	GEOL A454	Glacial and Quaternary Geology (3)
____	GEOL A455	Permafrost and Periglacial Geomorphology (4)
____	GEOL A456	Geoarcheology (3)
____	GEOL A457	Soil Genesis and Classification (4)
____	GEOL A460	Environmental Geochemistry (3)
____	GEOL A470	Paleoecology of Beringia (4)
____	GEOL A475	Environmental Geophysics (3)
____	GEOL A480**	Geologic Field Methods (3)
____	GEOL A481**	Alaska Geologic Field Investigations (3)
____	GEOL A482	Geologic Field Investigations (3)
____	GEOL A490	Advanced Topics in Geology (1-4)
____	GEOL A492	Geology Seminar (1)
____	GEOL A495	Geology Internship (1-3)
____	GEOL A498	Student Research (1-6)
____	GEOL A499	Senior Thesis (3)

*\*\*GEOL A480 and A481 may be applied towards recommended electives if they are not being applied to satisfy the core curriculum credits.*

### **Environmental Geological Sciences Track**

Complete the following three (3) required credits:

____	GEOL A340	Hydrogeology (3)
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Complete at least six (6) additional credits from the following:

____	GEOL A454	Glacial and Quaternary Geology (3)
____	GEOL A455	Permafrost and Periglacial Geomorphology (3)
____	GEOL A457	Soil Genesis and Classification (4)
____	GEOL A460	Environmental Geochemistry (3)
____	GEOL A475	Environmental Geophysics (3)
____	GEOL A495	Geology Internship (1-3)

Complete at least four (4) elective credits from the following:

____	GEOL A320	Volcanology (3)
____	GEOL A325	Geology of Ore Deposits (3)
____	GEOL A380	Anchorage Field Studies (3)
____	GEOL A381	Kenai Peninsula Field Studies (3)
____	GEOL A382	Geologic Field Studies (3)
____	GEOL A421	Invertebrate Paleontology (4)

_____	GEOL A454	Glacial and Quaternary Geology (3)
_____	GEOL A455*	Permafrost and Periglacial Gemorphology (4)
_____	GEOL A456	Geoarcheology (3)
_____	GEOL A457*	Soil Genesis and Classification (4)
_____	GEOL A460*	Environmental Geochemistry (3)
_____	GEOL A470	Paleoecology of Beringia (4)
_____	GEOL A475*	Environmental Geophysics (3)
_____	GEOL A480^	Geologic Field Methods (3)
_____	GEOL A481^	Alaska Field Investigations (3)
_____	GEOL A482	Geologic Field Investigations (3)
_____	GEOL A490	Advanced Topics in Geology (1-4)
_____	GEOL A492	Geology Seminar (1)
_____	GEOL A495*	Geology Internship (1-3)
_____	GEOL A498	Student Research (1-6)
_____	GEOL A499	Senior Thesis (3)

*\*GEOL A455, A457, A460, A475, and A495 may be applied towards the recommended electives if they are not being applied to satisfy the requirements under B1a. and B1b. for the Environmental Geosciences Track.*

*^ GEOL A480 and A481 may be applied towards recommended electives if they are note being applied to satisfy the core curriculum credits.*

A minimum of 120 credits is required for the degree, of which 42 must be upper-division credits.