

Name _____ SID _____ Date _____

2007-08 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)
____ STAT A253 Applied Statistics for the Sciences (4)
OR
____ STAT A307 Probability and Statistics (3)

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

A. 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)

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

- ____ GEOL A480 Geologic Field Methods (3)
AND
____ GEOL A481 Alaska Field Investigations (3)
OR

____ 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.

A. 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 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.*

B. Environmental Geological Sciences Track

1.a. Complete the following three (3) required credits:

_____	GEOL A340	Hydrogeology (3)
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1.b. 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)

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

**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.*

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