Earth Science

College of Natural Science and Mathematics Department of Geology and Geophysics (907) 474-7565 www.uaf.edu/geology/

B.A. Degree

Minimum Requirements for Degree: 130 credits

This program provides broad training in various aspects of earth science. It is especially applicable to those wishing to teach earth science or who are entering a field such as resource management.

Basic course work is designed to meet the National Science Teachers Association requirements for teaching secondary school earth science. Students arrange additional required course work and specialization emphasis in consultation with an undergraduate advisor and a faculty member from the appropriate department. Students wishing to enroll in this degree program should contact the head of the geology and geophysics department.

The earth sciences B.A. degree meets the undergraduate requirements for prospective secondary earth science teachers (grades 7–12).

Major-B.A. Degree

- Complete the general university requirements. (See page 116. As part of the core curriculum requirements, complete: NRM 303X*, CHEM 103X and 104X or CHEM 105X and 106X or PHYS 103X and 104X).
- 2. Complete the B.A. degree requirements. (See page 120. As part of the B.A. degree requirements, complete: PHIL 380 or 382 or 481 for the humanities requirement.)
- 4. Complete a specialization emphasis requirement:*
- a. Complete an additional approved 9 credits** at the 300-level or above with emphasis in geology, geography, biology, natural resources management or other earth science-related field as approved by the undergraduate advisor.
- 5. Complete any UAF minor except geology. If appropriate, courses used to satisfy the specialization emphasis requirement can also be applied towards the requirements for a minor.

Note: The following courses are recommended to fulfill the upper-division writing and oral intensive requirements (2 "W" courses and 1 "O" course): GEOS 475WO, GEOS 463O, GEOS 315W, GEOG 482WO, NRM 304O, or NRM 380W.

Note: Geography courses taken to meet the B.A. social science requirement may also be used to fulfill the specialization emphasis and (or) minor requirements. GEOG 402, a major requirement, also satisfies the B.A. social science requirement.

Note: In consultation with an undergraduate advisor, students should prepare an undergraduate study plan that includes specific courses to satisfy the major and minor complexes. This should be completed by the end of the sophomore year.

Note: We strongly recommend that prospective secondary science teachers seek advising from the UAF School of Education early in your undergraduate degree program, so that you can be appropriately advised of the state of Alaska requirements for teacher licensure. You will apply for admission to the UAF School of Education's post-baccalaureate teacher preparation program, a one-year intensive program, during your senior year. The Earth Science B.A. degree requirements will apply to the UAF School of Education during spring 2006 or later for licensure in secondary earth science.



Baccalaureate Core Requirements	NATURAL SCIENCES (8)
All degrees (e.g. B.A., B.S., etc.) require additional courses.	Complete any two (4-credit) courses:
Refer to specific degree and program requirements.	ATM 101X(4)
COMMUNICATION (9)	BIOL 100X(4)
• •	BIOL 103X(4)
Complete the following:	BIOL 104X(4)
ENGL 111X(3)	BIOL 105X(4)
ENGL 190H may be substituted.	BIOL 106X(4)
Complete one of the following:	BIOL 111X(4)
ENGL 211X OR ENGL 213X(3)	BIOL 112X(4)
Complete one of the following:	CHEM 100X(4) (4) CHEM 103X(4)
COMM 131X OR COMM 141X(3)	CHEM 104X
PERSPECTIVES ON THE HUMAN CONDITION (18)	CHEM 104X
Complete all of the following four courses:	CHEM 105X
ANTH 100X/SOC 100X(3)	GEOG 205X
ECON 100X OR PS 100X(3)	GEOS 100X
HIST 100X(3)	GEOS 101X
ENGL/FL 200X(3)	GEOS 112X
Complete one of the following three courses:	GEOS 120X(4)
ART/MUS/THR 200X, HUM 201X OR ANS 202X	GEOS 125X
Complete one of the following six courses:	MSL 111X(4)
BA 323X, COMM 300X, JUST 300X, NRM 303X,	PHYS 102X(4)
PS 300X OR PHIL 322X(3)	PHYS 103X(4)
OR complete 12 credits from the above courses PLUS	PHYS 104X(4)
• two semester-length courses in a single Alaska Native language or other	PHYS 115X(4)
non-English language OR	PHYS 116X(4)
• three semester-length courses (9 credits) in American Sign Language	PHYS 175X(4)
taken at the university level.	PHYS 211X(4)
MATHEMATICS (3)	PHYS 212X(4)
	PHYS 213X(4)
Complete one of the following: MATH 103X, MATH 107X, MATH 161X OR STAT 200X(3-4)	LIBRARY AND INFORMATION RESEARCH (0–1)
* No credit may be earned for more than one of MATH 107X or 161X.	Successful completion of library skills competency test OR
	LS 100X or 101X prior to junior standing(0–1)
OR complete one of the following:* MATH 200X, MATH 201X, MATH 202X,	
MATH 262X OR MATH 272X(4)	UPPER-DIVISION WRITING AND ORAL COMMUNICATION (0)
*Or any math course having one of these as a prerequisite	Complete the following:
	Two writing intensive courses designated (W)(0)
	One oral communication intensive course designated (O)(0)
	OR two oral communication intensive courses designated (O/2), at the
	upper-division level (see degree and/or major requirements)(0)
	TOTAL CREDITS REQUIRED38–39
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