Geophysics

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

M.S., Ph.D. Degrees

Minimum Requirements for Degrees: M.S.: 30 credits; Ph.D.: 18 thesis credits

Graduate Program — M.S. Degree

Concentrations: Solid-Earth Geophysics; Snow, Ice and Permafrost Geophysics; Remote Sensing Geophysics

- 1. Complete the following admission requirements:
- a. Submit GRE scores.
- Complete a background at least to the level of a B.S. concentration in geology, geophysics or an appropriate physical science or engineering.
- c. Complete MATH F421 and MATH F422; or equivalent.
- 2. Complete the general university requirements (page 201).
- 3. Complete the master's degree requirements (page 205).
- a. Complete 6 12 thesis credits.
- b. Complete any deficiencies concurrently with this degree.
- Submit a written thesis proposal and pass an oral comprehensive examination centered on this proposal.
- Complete and submit a written thesis and pass an oral defense of thesis.
- 7. Complete one of the following concentrations:

Solid-Earth Geophysics

Snow, Ice and Permafrost Geophysics

. Complete o credits from the following:	
GEOS F614—Ice Physics	3
GEOS F615—Sea Ice	
GEOS F616—Permafrost	3
GEOS F617—Glaciers	3
o. Minimum credits required	30

Remote Sensing

Kemote sensing	
Complete 7 credits from the following list:	
GEOS F654—Visible and Infrared Remote Sensing	3
GEOS F657—Microwave Remote Sensing	3
GEOS F622—Digital Image Processing in the Geosciences	3
GEOS F434/F634—Remote Sensing of the Cryosphere	4
GEOS F484/F684—Remote Sensing Bi-Weekly Seminar	1
GEOS F676—Remote Sensing of Volcanic Eruptions	3
GEOS F639—InSAR and its Applications	3
ATM F413/F613—Atmospheric Radiation	3
Complete 6 credits from relevant geology and geophysics cou	ırs
	3

Graduate Program — Ph.D. Degree

- 1. Complete the following admission requirement:
 - a. Submit GRE scores.
- 2. Complete the general university requirements (page 201).
- Complete the course work requirements for the appropriate M.S. concentration.
- 4. Complete the Ph.D. degree requirements (page 206).
- 5. As part of the Ph.D. degree requirements, complete the following:
- a. Complete and pass a written and oral comprehensive examination.
- b. Complete and submit a written thesis proposal for approval.
- c. Complete a research program as arranged with the graduate advisory committee.
- d. Complete 18 credits of thesis, write a thesis and pass an oral defense of thesis.
- 6. Minimum credits required18

