# **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.
- b. 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 421 and 422; or equivalent.
- 2. Complete the general university requirements (page 168).
- 3. Complete the master's degree requirements (page 172).
- a. Complete 6-12 thesis credits.
- b. Complete any deficiencies concurrently with this degree.
- 4. 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 1 of the following concentrations:

### **Solid-Earth Geophysics**

a. Complete 6 credits from the following:
GEOS 604—Intermediate Seismology
GEOS 605—Geochronology
GEOS 613—Global Tectonics
GEOS 671—Volcano Seismology3
b. Minimum credits required30
Snow, Ice and Permafrost Geophysics a. Complete 6 credits from the following:
GEOS 614—Ice Physics
GEOS 616—Permafrost
GEOS 617—Glaciers
b. Minimum credits required30
<b>Remote Sensing Geophysics</b> a. Complete 6 credits from relevant remote sensing, geophysics or

physics courses as agreed on by the advisory committee.
b. Minimum credits required .......30

#### Graduate Program—Ph.D. Degree

- 1. Complete the following admission requirement:
- a. Submit GRE scores.
- 2. Complete the general university requirements (page 168).
- Complete the course work requirements for the appropriate M.S. concentration.
- 4. Complete the Ph.D. degree requirements (page 172).

be viewed online at www.uaf.edu/catalog/.

- 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.

