M.S., GEOPHYSICS

- 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 F302
  d. Recommended: MATH F314, MATH F421, PHYS F220

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

Minimum Requirements for Degree: 30 credits

General University Requirements
Complete the general university requirements. (http://catalog.uaf.edu/graduate)

Master’s Degree Requirements
Complete the master’s degree requirements. (http://catalog.uaf.edu/graduate/#Masters)
Complete 6-12 thesis credits
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.

Geophysics Core Requirements
GEOS F631 Foundations of Geophysics 4
GEOS F682 Geoscience Seminar (fall semester) 1
Select 6 credits from relevant graduate-level courses agreed by the advisory committee or select one from the following concentrations:
  Solid-Earth Geophysics
  Snow, Ice and Permafrost Geophysics
  Remote Sensing
Select 7 credits of courses approved by the advisory committee 7
GEOS F699 Thesis 6
Thesis credits or credits from courses that are F400-level or higher. 1
Total Credits 30

1 The minimum credits required is 30. The required M.S. course work above represents 18 credits. The minimum number of thesis credits required is 6. The remaining 6 credits can either be thesis credits or courses that are F400-level or higher.

Concentrations
SOLID-EARTH GEOPHYSICS
Select 6 credits from the following: 6
GEOS F604 Seismology
GEOS F605 Geochronology
GEOS F626 Applied Seismology
GEOS F613 Global Tectonics

SNOW, ICE AND PERMAFROST GEOPHYSICS
Select 6 credits from the following: 6
GEOS F614 Ice Physics
GEOS F615 Sea Ice
GEOS F616 Permafrost
GEOS F617 Glaciers
Total Credits 6

REMOTE SENSING
Select 6 credits from the following: 6
GEOS F654 Visible and Infrared Remote Sensing
GEOS F657 Microwave Remote Sensing
GEOS F622 Digital Image Processing in the Geosciences
GEOS F676 Remote Sensing of Volcanic Eruptions
GEOS F639 InSar and Its Applications
ATM F613 Atmospheric Radiation
Total Credits 6