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Department

Geology & Geophysics

College/School

College of Natural Sciences and  
Mathematics

Prepared by

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Phone

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Downloadable PDF

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:
  1. Submit GRE scores.
  2. Complete a background at least to the level of a B.S. concentration in geology, geophysics or an appropriate physical science or engineering.
  3. Complete MATH F421 and MATH F422; or equivalent.
2. Complete the general university requirements.
3. Complete the master's degree requirements.
  1. Complete 6 - 12 thesis credits.

**Graduate Program -- Ph.D. Degree**

1. Complete the following admission requirement:

- ~~— GEOS F602 Geophysical Fields 3 credits~~
  - ~~— GEOS F620 Geodynamics 3 credits~~
  - ~~— GEOS F654 Visible and Infrared Remote Sensing 3 credits~~
  - ~~— GEOS F657 Microwave Remote Sensing 3 credits~~
- 7. Complete 6 credits from relevant graduate-level courses agreed by the advisory committee on choice one of the following alternatives:**

GEOS F657—Microwave Remote Sensing—3 credits

GEOS F622—Digital Image Processing in the Geosciences—3 credits

PHYS F628—Digital Time Series Analysis—3 credits

2. Statistics and parameter estimation

ATM F693—Analysis Methods in Meteorology and Climate—3 credits

STAT F401—Regression and Analysis of Variance—3 credits

STAT F461—Applied Multivariate Statistics—3 credits

MATH F694—Numerical Linear Algebra—3 credits

**E. IMPACTS ON PROGRAMS/DEPTS:**

*What programs/departments will be affected by this proposed action?  
Include information on the Programs/Departments contacted (e.g., email, memo)*

*Biophysics is an interdisciplinary field of science and therefore relies on expertise in other fields to provide*

**ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE**

Date

Signature, Chair, UAF Faculty Senate Curriculum Review Committee