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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>General University Requirements</td>
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<tr>
<td></td>
<td>Complete the general university requirements. (<a href="http://catalog.uaf.edu/graduate/mastersdegrees/#generaluniversityrequirementstext">http://catalog.uaf.edu/graduate/mastersdegrees/#generaluniversityrequirementstext</a>)</td>
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<td>Master's Degree Requirements</td>
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<td>Complete the master's degree requirements. (<a href="http://catalog.uaf.edu/graduate/mastersdegrees/#masterofscienccewithprojecttext">http://catalog.uaf.edu/graduate/mastersdegrees/#masterofscienccewithprojecttext</a>)</td>
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<td>Complete 6-12 thesis credits</td>
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<td>Complete any deficiencies concurrently with this degree.</td>
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<td>Submit a written thesis proposal and pass an oral comprehensive examination centered on this proposal.</td>
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<td>Complete and submit a written thesis and pass an oral defense of thesis.</td>
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<td></td>
<td>Geophysics Core Requirements</td>
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<tr>
<td>GEOS F631</td>
<td>Foundations of Geophysics</td>
<td>4</td>
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<tr>
<td>GEOS F682</td>
<td>Geoscience Seminar (fall semester)</td>
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<td>Complete 6 credits from relevant graduate-level courses agreed by the advisory committee or select one from the following concentrations:</td>
<td>6</td>
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<tr>
<td></td>
<td>Solid-Earth Geophysics</td>
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<tr>
<td></td>
<td>Snow, Ice and Permafrost Geophysics</td>
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</tr>
<tr>
<td></td>
<td>Remote Sensing</td>
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<td></td>
<td>Complete 7 credits of courses approved by the advisory committee</td>
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<tr>
<td>GEOS F699</td>
<td>Thesis</td>
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<tr>
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<td>Thesis credits or credits from courses that are F400-level or higher.</td>
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</table>

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

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
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<td>Complete 6 credits from the following:</td>
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<tr>
<td>GEOS F604</td>
<td>Seismology</td>
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<td>GEOS F605</td>
<td>Geochronology</td>
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SNOW, ICE AND PERMAFROST GEOPHYSICS

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<td>Complete 6 credits from the following:</td>
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<tr>
<td>GEOS F614</td>
<td>Ice Physics</td>
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<tr>
<td>GEOS F615</td>
<td>Sea Ice</td>
<td></td>
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<tr>
<td>GEOS F616</td>
<td>Permafrost</td>
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<tr>
<td>GEOS F617</td>
<td>Glaciers</td>
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REMOTE SENSING

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</thead>
<tbody>
<tr>
<td></td>
<td>Complete 6 credits from the following:</td>
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<tr>
<td>GEOS F622</td>
<td>Digital Image Processing in the Geosciences</td>
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<tr>
<td>GEOS F639</td>
<td>InSar and Its Applications</td>
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<tr>
<td>GEOS F654</td>
<td>Visible and Infrared Remote Sensing</td>
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<tr>
<td>GEOS F657</td>
<td>Microwave Remote Sensing</td>
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<tr>
<td>GEOS F676</td>
<td>Remote Sensing of Volcanic Eruptions</td>
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<tr>
<td>ATM F613</td>
<td>Atmospheric Radiation</td>
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