EARTH SCIENCES: GEOLOGY (M.S.)

https://ceps.unh.edu/earth-sciences/program/ms/earth-sciences-geology

Description

This option is for students seeking a broad background in geology and also for those wishing to study one area in depth. These goals are accomplished through a set of common requirements, core courses and electives for a total of at least 30 credits (34 for non-thesis option). Most students who enter this program have undergraduate degrees in geology or earth sciences. Those with other majors may have to make up selected undergraduate courses.

Admission Requirements

An applicant to the M.S. program is expected to have completed one year of calculus and at least four semesters of college chemistry, physics, and/or biology; and to have an undergraduate degree or equivalent in geology, chemistry, physics, mathematics, engineering, or the biological sciences. Students lacking some background in a particular area may be admitted provided they are prepared to complete courses, without graduate credit, in which they may be deficient. The program of study a student wishes to follow and the student's undergraduate major determine the level of preparation necessary. The preparation of each student is determined before the beginning of the first semester in residence in order to plan the course of study. Each entering student is assigned an academic adviser to assist in planning a program of study.

Requirements

Degree Requirements

Students in the thesis option must satisfactorily complete at least 30 graduate credits, which include the credits accumulated in the core curriculum. Students in this option must complete a master's thesis (6 credits) and give an oral presentation of the results.

Students in the non-thesis option must satisfactorily complete at least 34 graduate credits, which includes the core curriculum, a 2-credit directed research project (ESCI #898 Directed Research), and a written and oral presentation of that research.

Geology

The core curriculum for the option in geology normally includes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCI</td>
<td>Select at least three of the following courses:</td>
<td>11-12</td>
</tr>
<tr>
<td>826</td>
<td>Igneous and Metamorphic Petrology</td>
<td></td>
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<tr>
<td>834</td>
<td>Geophysics</td>
<td></td>
</tr>
<tr>
<td>841</td>
<td>Geochemistry</td>
<td></td>
</tr>
<tr>
<td>845</td>
<td>Isotope Geochemistry</td>
<td></td>
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<tr>
<td>854</td>
<td>Sedimentology</td>
<td></td>
</tr>
<tr>
<td>856</td>
<td>Geotectonics</td>
<td></td>
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<tr>
<td>859</td>
<td>Geological Oceanography</td>
<td></td>
</tr>
<tr>
<td>861</td>
<td>Glacial Geology</td>
<td></td>
</tr>
<tr>
<td>866</td>
<td>Volcanology</td>
<td></td>
</tr>
<tr>
<td>ESCI</td>
<td>Required Courses:</td>
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<tr>
<td>997</td>
<td>Seminar in Earth Sciences (first year)</td>
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</tbody>
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Degree Plan

**Course** | **Title** | **Credits**
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**First Year**
**Fall**
Core Curriculum 1 Course | 4
Elective I Course | 3-4
ESCI 997 Seminar in Earth Sciences | 1
**Credits** | 8-9
**Spring**
Core Curriculum 2 Course | 4
Elective 2 Course | 3-4
ESCI 998 Proposal Development | 1
**Credits** | 8-9
**Second Year**
**Fall**
Core Curriculum 3 Course | 3-4
ESCI 899 Master's Thesis (or Elective for Directed Research Option) | 3-4
**Credits** | 6-8
**Spring**
Elective 3 Course | 3-4
ESCI 899 or ESCI #898 Master's Thesis or Directed Research | 2 or 3
**Credits** | 5-7
**Total Credits** | 27-33