GEOLOGY OPTION

This option is offered within the following major(s):

- Earth Sciences - College of Earth, Ocean, and Atmospheric Sciences (http://catalog.oregonstate.edu/college-departments/earth-ocean-atmospheric-sciences/earth-sciences-bs-hbs)

The Geology option is suitable for students interested in careers in applied geology, environmental sciences, science education, and in research. The Geology option includes the topics covered by the test for the state Geologist Practice Examination conducted by the Board of Geologist Examiners (http://www.oregon.gov/osbge/Pages/index.aspx).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CH 232 &amp; CH 262</td>
<td>GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 232</td>
<td>5</td>
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<tr>
<td>CH 232</td>
<td>*GENERAL CHEMISTRY</td>
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<tr>
<td>PH 212 &amp; PH 202</td>
<td>*GENERAL PHYSICS</td>
<td>4-5</td>
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<tr>
<td>or PH 213 &amp; PH 203</td>
<td>*GENERAL PHYSICS</td>
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<tr>
<td>CH 233 &amp; CH 263</td>
<td>GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 233</td>
<td>4-5</td>
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<td>or CH 123</td>
<td>*GENERAL CHEMISTRY</td>
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<tr>
<td>PH 213</td>
<td>*GENERAL PHYSICS WITH CALCULUS</td>
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<tr>
<td>or PH 203</td>
<td>*GENERAL PHYSICS</td>
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**Elective Specializations**

Select 9-12 credits of the following: 9-12

- GEO 403 THESIS (may count toward the 9–12 credits)

**Solid Earth**

- GEO 412 IGNEOUS PETROLOGY
- GEO 440 ECONOMIC GEOLOGY
- GEO 497 FIELD MAPPING OF ORE DEPOSITS

**Earth Surface**

- BI 427 PALEOBIOLOGY
- GEO 432 APPLIED GEOMORPHOLOGY
- GEO 481 GLACIAL GEOLOGY
- GEO 484 INTRODUCTION TO BIOGEOCHEMISTRY
- GEO 486 QUATERNARY PALEOCLIMATOLOGY

**Natural Hazards**

- GEO 427 ^VOLCANOLOGY
- GEO 433 COASTAL GEOMORPHOLOGY
- GEO 461 GEOLOGY OF EARTHQUAKES

**GIScience**

- GEOG 480 REMOTE SENSING I: PRINCIPLES AND APPLICATIONS
- GEOG 472 GEOVISUALIZATION: GEOVISUAL ANALYTICS
- GEOG 360 GISCIENCE I: GEOGRAPHIC INFORMATION SYSTEMS AND THEORY
- GEOG 481 REMOTE SENSING II: DIGITAL IMAGE PROCESSING

Total Hours: 75-80

* Baccalaureate Core Course
^ Writing Intensive Course (WIC)

Option Code: 262