MINOR IN GEOLOGY

The Department of Earth and Environmental Sciences offers programs in geology and, in co-operation with the Department of Physics, also offers a program in geology-physics. The Department is part of the Ottawa-Carleton Geoscience Centre, and its research areas include precambrian studies, tectonics, resource geology, northern studies, environmental geoscience and geochemistry.

Geology studies the composition and evolution of Earth and of other planetary bodies. The discipline extends into many areas: mineralogy, petrology, palaeontology, sedimentology, environmental geology, economic geology, geochemistry, structural geology, and geophysics.

Thus, geologists study matter and geological processes in all their diversity, from atoms and crystals to mountain ranges and the dynamics of the entire planet. The scientific methods used are equally diverse (field studies, instruments to probe the Earth’s depths, microscope examination of minerals and fossils, elemental and isotopic analysis, experimental study of geochemical systems, and computer simulation of geological processes).

Although many program options are offered, students are encouraged to take the Honours B.Sc. in Geology or Geology-Physics, which allows them to meet the accreditation requirements of professional bodies and practice as geoscientists.

In first year, students increase their knowledge of mathematics, physics, chemistry, and biology. Later, they complete several geology courses, which consist of lectures, problem-solving assignments, laboratory work and field excursions.

This program is offered in English and in French.

Program Requirements

The table below includes only discipline-specific courses. Please refer to the Academic Regulations (http://web5.uottawa.ca/admingov/regulations.html) for information on including a minor to your degree.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>CHM 1311</td>
<td>Principles of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GEO 1111</td>
<td>Introduction to Earth Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEO 1115</td>
<td>Introduction to Earth Materials</td>
<td>3</td>
</tr>
<tr>
<td>MAT 1330</td>
<td>Calculus for the Life Sciences I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 1121</td>
<td>Fundamentals of Physics I</td>
<td>3</td>
</tr>
<tr>
<td>GEO 2163</td>
<td>Introduction to Mineralogy</td>
<td>3</td>
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<tr>
<td>6 course units from:</td>
<td></td>
<td>6</td>
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<tr>
<td>GEO 2020</td>
<td>Field Studies I</td>
<td></td>
</tr>
<tr>
<td>GEO 2113</td>
<td>Paleontology</td>
<td></td>
</tr>
<tr>
<td>GEO 2164</td>
<td>Analytical Methods in Mineralogy</td>
<td></td>
</tr>
<tr>
<td>GEO 2165</td>
<td>Stratigraphy and Sedimentation</td>
<td></td>
</tr>
<tr>
<td>GEO 2321</td>
<td>Structural Geology and Tectonics</td>
<td></td>
</tr>
<tr>
<td>GEO 2334</td>
<td>Quaternary Geology and Climate Change</td>
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<tr>
<td>6 optional course units in geology (GEO) at the 3000 or 4000 level</td>
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<td>Total:</td>
<td></td>
<td>30</td>
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Note(s)