MAJOR IN GEOMATICS AND SPATIAL ANALYSIS

Geomatics is a rapidly expanding branch of geography with concrete applications in areas such as health-care planning, epidemiology, criminology, defense and security, disaster management, environmental and resource monitoring, and urban planning. Geographic information systems (GIS), remote sensing and global positioning systems have also made it easier to capture, manage and visualize geographic information. From producing more efficient transit schedules to mapping disease outbreaks or assessing the seismic or health risks associated to our built environments, geomatics plays an essential role.

This program is offered in English and in French.

Program Requirements

The table below includes only the discipline-specific courses. Please refer to the Academic Regulations [http://web5.uottawa.ca/admingov/regulations.html](http://web5.uottawa.ca/admingov/regulations.html) for information on the Honours bachelor’s with double major and the Honours bachelor’s with major and minor.

French immersion is available when taken as part of an honours degree.

Requirements for this program have been modified. Please consult the 2015-2016 calendars [http://www.uottawa.ca/academic/info/regist/1516/calendars](http://www.uottawa.ca/academic/info/regist/1516/calendars) for the previous requirements.

This program is currently under revision. At this time, we are not accepting applications.

<table>
<thead>
<tr>
<th>Course Units</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Units</td>
<td>CSI 1390</td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td>3 Units</td>
<td>ITI 1120</td>
<td>Introduction to Computing I</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 1301</td>
<td>The Physical Environment</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 1302</td>
<td>Places and Spaces of Human Activity</td>
</tr>
<tr>
<td>3 Units</td>
<td>MAT 1330</td>
<td>Calculus for the Life Sciences I</td>
</tr>
<tr>
<td>3 Units</td>
<td>MAT 1332</td>
<td>Calculus for the Life Sciences II</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 2320</td>
<td>Introduction to Geomatics</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 3105</td>
<td>Remote Sensing</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 3312</td>
<td>Advanced GIS</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 4104</td>
<td>Methodological and Theoretical Approaches in Geography and Environmental Studies</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 4120</td>
<td>GIS and Numerical Spatial Analysis</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 4121</td>
<td>Applications of GIS in Natural and Social Sciences</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 4301</td>
<td>Advanced Geomatics</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 2108</td>
<td>Contested Places</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 2110</td>
<td>Sustainability of Social Spaces and Built Environments</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 2301</td>
<td>Geomorphology</td>
</tr>
<tr>
<td>3 Units</td>
<td>GEG 2304</td>
<td>Climatology</td>
</tr>
</tbody>
</table>

3 optional course units in geography (GEG) at the 3000 or 4000 level

Total: 42 Units