GEOMATICS OPTION

The field of geomatics uses science and information technologies to gather and manage spatial data. It draws on a variety of disciplines such as geography, cartography, photogrammetry, computer science, mathematics and statistics, as well as geographic information systems, global positioning systems, and remote sensing. The applications of geomatics include health-care planning, epidemiology, criminology, environmental and resources monitoring and urban planning. As such, it is ubiquitous in today's society; there are numerous examples of this including the creation of the Centre for Geography and Exploration in Ottawa, the evolution of Google Maps, the navigation of autonomous vehicles, and the growing use of satellite remote sensing of the environment.

The 12 course-unit option in Geomatics allows students to develop competencies in geomatics applications in view of applying them to a wide variety of fields and disciplines. This option can be integrated into most of the BA and BSc programs of the Faculty of Arts.

What is a transdisciplinary option?

Transdisciplinary options are microcredentials that allow you to tailor your degree and develop competencies outside of your Honours BA, Major or Minor. These thematic microcredentials range from 9 to 18 course units and can be taken from your electives. Options can be added to most of the B.A. and B.Sc. programs at the Faculty of Arts and the name of the option will appear on your transcript. Adding one or several options to your degree allows you to be the architect of your degree and develop additional competencies beyond your fields of study.

Program Requirements

The table below includes only the option-specific courses. Please refer to the Academic Regulations (https://www.uottawa.ca/administration-and-governance/academic-regulation-3-program-of-studies/) for information on the possible combinations available within the Faculty of Arts.

<table>
<thead>
<tr>
<th>Compulsory courses at the 2000 level</th>
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<tbody>
<tr>
<td>GEG 2320 Introduction to Geomatics</td>
</tr>
<tr>
<td>3 Units</td>
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<tr>
<th>Compulsory courses at the 3000 level</th>
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<tbody>
<tr>
<td>GEG 3105 Remote Sensing</td>
</tr>
<tr>
<td>3 Units</td>
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<tr>
<td>GEG 3312 Advanced GIS</td>
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<td>3 Units</td>
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<table>
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<tr>
<th>Optional Courses</th>
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<tbody>
<tr>
<td>3 course units from:</td>
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<tr>
<td>GEG 4120 GIS and Numerical Spatial Analysis</td>
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<tr>
<td>3 Units</td>
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<tr>
<td>GEG 4301 Advanced Geomatics</td>
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<td>3 Units</td>
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Total: 12 Units