**GEOGRAPHY UNDERGRADUATE MINOR**

Any six courses (18 credit hours) constitute a minor, but the suggested course sequences in the Requirements tab will be of interest to certain students pursuing specific majors and with certain career objectives such as planning, environmental conservation, or business.

**Program Requirements**

- Minimum of 18 credit hours.
- No credit hours from GES courses numbered 160-170, and 360-400 may be applied towards the Geography Minor.

**General Geography Minor**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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**Required**

- Select one physical course
- Select one human course
- Select one regional course
- Select one techniques course
- Select any two other geography courses

**Minor Emphasizing Urban Planning**

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Select six courses from the following:

- GES 105 Introduction to Human Geography
- GES 301 Cities of the World
- GES 302 Urban Geography: Sustainable Land Use
- GES 303 World Population Problems
- GES 304 Sustainable Transport and Mobility
- GES 306 World Economic Geography
- GES 344 Geography of the United States and Canada
- GES 402 Sustainable Urban Planning in an Entrepreneurial Environment
- GES 432 Geography of Livable Cities
- GES 433 Regional Economic Development

**Minor Emphasizing Environmental Studies**

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</table>

Select six courses from the following:

- GES 105 Introduction to Human Geography
- GES 121 Introduction to Geographic Information Science
- GES 205 Environmental Change: Its Nature and Impact
- GES 303 World Population Problems
- GES 305 Environmental Hazards Assessment
- GES 312 Geomorphology of North America
- GES 314 Physical Geography: Landscape Processes
- GES 319 Weather and Climate
- GES 330 Elements of Hydrology
- GES 357 Principles of Cartography

**Minor Emphasizing Geographic Information Science and Techniques**

Provides the student opportunity to acquire geographic research, writing, and cartographic techniques.

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Select six courses from the following:

- GES 105 Introduction to Human Geography
- GES 121 Introduction to Geographic Information Science
- GES 322 Research Methods in Spatial Science
- GES 357 Principles of Cartography
- GES 358 Geographic Information Systems
- GES 359 Remote Sensing of Environment
- GES 432 Geography of Livable Cities
- GES 433 Regional Economic Development
- GES 457 Advanced Cartography
- GES 459 Advanced Remote Sensing-Imaging

**Geography Minor for Majors in the School of Business and Economics**

Provides the student opportunity to acquire knowledge of industrial location, international trade, demographic change and environmental impact.

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Select six courses from the following:

- GES 102 The Historical Geography of the Western World
- GES 104 World Regional Geography
- GES 105 Introduction to Human Geography
- GES 121 Introduction to Geographic Information Science
- GES 301 Cities of the World
- GES 302 Urban Geography: Sustainable Land Use
- GES 303 World Population Problems
- GES 306 World Economic Geography
- GES 344 Geography of the United States and Canada
- GES 491 Current Topics in Regional Geography
- GES 432 Geography of Livable Cities
- GES 433 Regional Economic Development

* Either of options A or B may also be chosen, but not both.*
**Geography Undergraduate Minor**

Select one option of the following:  
* 3-4

**Option A:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>GES 103</td>
<td>Introduction to Earth Science</td>
</tr>
<tr>
<td>&amp; 103L</td>
<td>and Earth Science Laboratory</td>
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</table>

**Option B:**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>GES 108</td>
<td>Our Dynamic Planet</td>
</tr>
</tbody>
</table>

* Either of options A or B below may also be chosen, but not both.