Any six courses (18 credit hours) constitute a minor, but the suggested course sequences below 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

**General Geography Minor**

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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 of the following:
GES 105 Introduction to Human Geography
GES 301 Urban Geography: Global Patterns
GES 302 Urban Geography: Land Use
GES 303 World Population Problems
GES 304 Introduction to Transportation Analysis
GES 306 World Economic Geography
GES 344 Geography of the United States and Canada
GES 402 Entrepreneurial Urban Planning
GES 432 Geography of Livable Cities
GES 433 Regional Economic Development

**Minor Emphasizing Environmental Studies**

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Select six of 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 319 Weather and Climate
GES 312 Geomorphology of North America
GES 314 Physical Geography: Landscape Processes
GES 330 Elements of Hydrology
GES 357 Principles of Cartography
GES 359 Remote Sensing of Environment
GES 418 Biogeography
GES 419 Advanced Weather and Climate-Synoptic Climatology

**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 of the following:
GES 105 Introduction to Human Geography
GES 121 Introduction to Geographic Information Science
GES 322 Research Methods in Geography
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 435 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 of 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 Urban Geography: Global Patterns
GES 302 Urban Geography: 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

Select one option of the following:

**Option A:**
GES 103 Introduction to Earth Science
GES 106 Geosystems Science and Geosystems Science Laboratory

*Either of options A or B may also be chosen, but not both.*
<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>GES 103</td>
<td>Introduction to Earth Science</td>
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<td><strong>Option B:</strong></td>
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<tr>
<td>GES 106</td>
<td>Geosystems Science</td>
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<td>&amp; 106L</td>
<td>and Geosystems Science Laboratory</td>
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* Either of options A or B below may also be chosen, but not both.