**MINOR IN GEOGRAPHY**

**REQUIREMENTS**

The following requirements must be fulfilled: 19 credits, including 7 credits in required courses and 12 credits selected from among four groups.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEOG 1001</td>
<td>Introduction to Human Geography</td>
<td></td>
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<tr>
<td>GEOG 1002</td>
<td>Introduction to Physical Geography</td>
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One course from each of the following groups:

**Group A: Physical Geography**
- GEOG 2129 Biogeography
- GEOG 2134 Energy Resources
- GEOG 2136 Water Resources
- GEOG 2137 Environmental Hazards
- GEOG 3108 Weather and Climate
- GEOG 3128 Geomorphology and Natural Hazards
- GEOG 3194 Special Topics in Physical Geography

**Group B: Human Geography**
- GEOG 2124 Urban Transportation
- GEOG 2125 Transportation Systems and Networks
- GEOG 2127 Population Geography
- GEOG 2133 People, Land, and Food
- GEOG 2140 Cities and Societies
- GEOG 2141 Cities in the Developing World
- GEOG 2144 Explorations in Historical Geography
- GEOG 2147 Military Geography
- GEOG 2148 Economic Geography
- GEOG 3145 Cultural Geography
- GEOG 3146 Political Geography
- GEOG 3195 Special Topics in Human Geography
- GEOG 3810 Planning Cities

**Group C: Techniques**
- GEOG 2104 Introduction to Cartography and GIS
- GEOG 2196 Field Methods in Geography
- GEOG 3105 Techniques of Spatial Analysis
- GEOG 3106 Intermediate Geographic Information Systems
- GEOG 3107 Introduction to Remote Sensing
- GEOG 3196 Special Topics in Techniques
- GEOG 4307 Digital Image Processing and Analysis
- GEOG 4308 Programming for Geospatial Applications I
- GEOG 4309 GIS for Emergency Management
- GEOG 4310 Geovisualization and Cartography
- GEOG 4311 Open Source Solutions for Geospatial Project Management

**Group D: Nature and Society**
- GEOG 1003 Society and Environment
- GEOG 2120 World Regional Geography
- GEOG 3132 Environmental Quality and Management
- GEOG 3133 Social-Ecological Systems
- GEOG 3143 Urban Sustainability
- GEOG 3154 Geography of the Middle East and North Africa
- GEOG 3161 Geography of Latin America
- GEOG 3164 The Geography of Africa
- GEOG 3165 Geography of South Asia
- GEOG 3193 Environmental Law and Policy
- GEOG 3197 Special Topics in Regional Geography
- GEOG 3218 Arctic Systems

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