**Geography Option**

The Geography Option offers students a liberal university education with an emphasis in geography. The Geography option provides a general education as well as the more specialized knowledge and skills necessary to pursue many career objectives. Geographers find professional opportunities in urban and land use planning as well as spatial analysis in the public and private sectors, analysis of regions, resource and environmental management, as well as the application of geographical skills in map making (cartography), remote sensing, and geographic information science (GIS). Geography also offers an outstanding background for more advanced education in environmental law, international business, resource planning, and other specialized graduate school opportunities. Students may enhance their employment opportunities with a Master's degree, or a Ph.D. if college teaching or advanced research positions are of interest.

The student, in consultation with an advisor, is given the opportunity to develop a program to meet his or her own particular interests and needs through a series of core geography courses and an emphasis in physical or human geography or an approved minor. The Geography Option introduces students to lower division course work in world physical or human geography or an approved minor. The Geography (1 course only from within the department) courses must be in courses numbered 300 and above. A minimum of 120 credits is required for graduation; 42 of these credits used here cannot be used to fulfill the other course requirements in the Geography Option.

The advisor-approved upper division courses (minimum 9 credits) will be selected from course offerings in Anthropology, Economics, History, Native American Studies, Political Science, Sociology, as well as Earth Science, Geology, and Geography (1 course only from within the department). The courses used here cannot be used to fulfill the other course requirements in the Geography Option.

**Methods Courses**

GPHY 357 - GPS Fund/App in Mapping 3
GPHY 426 - Remote Sensing 3
GPHY 429R - Applied Remote Sensing 3
GPHY 484R - Applied GIS & Spatial Analysis 3
STAT 411 - Methods for Data Analysis I 3

Selected minor or minor emphasis ** 21

** Students, in consultation with their Earth Science advisor, must also select a minor from a minor tabulated in the catalog OR one of the emphases listed below.

### Human Geography Emphasis

Choose 12 credits from the following:

- **GPHY 121D** - Human Geography 3
- **GPHY 284** - Intro to GIS Science & Cartog 3
- **STAT 216Q** - Introduction to Statistics 3
- **STAT 217Q** - Intermediate Statistical Concepts 3
- **ERTH 101IN** - Earth System Sciences 4
- **GPHY 384** - Intro to GIS Science & Cartog 3
- **ERTH 212RN** - Yellowstone: Scientific Lab 4

Take an additional 9 credits of Advisor-approved upper division electives 9

### Physical Geography Emphasis

Choose 12 credits from the following:

- **CHMY 121IN** - Introduction to General Chemistry 4
- **GEO 105IN** - Oceanography 3
- **GPHY 325** - Cultural Geography 3
- **GPHY 326** - Geography of Energy Resources 3
- **GPHY 484R** - Applied GIS & Spatial Analysis 3
- **GPHY 365** - Geographical Planning 3
- **GPHY 402** - Water and Society 3
- **GPHY 441R** - Mountain Geography 4
- **GPHY 445** - Adv. Regional Geography 3

Methods Courses

GPHY 357 - GPS Fund/App in Mapping 3
GPHY 426 - Remote Sensing 3
GPHY 429R - Applied Remote Sensing 3
GPHY 484R - Applied GIS & Spatial Analysis 3

The advisor-approved upper division electives (minimum 9 credits) will be selected from course offerings in Anthropology, Economics, History, Native American Studies, Political Science, Sociology, as well as Earth Science, Geology, and Geography (1 course only from within the department). The courses used here cannot be used to fulfill the other course requirements in the Geography Option.

** A minimum of 120 credits is required for graduation; 42 of these credits must be in courses numbered 300 and above.

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** University Core and Electives 12
Year Total: 108
Total Program Credits: 120

** Year Total: 28

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<table>
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<tr>
<th><strong>Student Year</strong></th>
<th><strong>Credits</strong></th>
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<tbody>
<tr>
<td><strong>Sophomore Year</strong></td>
<td><strong>Credits</strong></td>
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<tr>
<td>GPHY 121D - Human Geography</td>
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<tr>
<td>GPHY 284 - Intro to GIS Science &amp; Cartog</td>
<td>3</td>
</tr>
<tr>
<td>STAT 216Q - Introduction to Statistics</td>
<td>3</td>
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<tr>
<td>STAT 217Q - Intermediate Statistical Concepts</td>
<td>3</td>
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<td>University Core and Electives</td>
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<td>Year Total:</td>
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<tr>
<th><strong>Junior and Senior Year</strong></th>
<th><strong>Credits</strong></th>
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<tbody>
<tr>
<td>GPHY 384 - Adv GIS &amp; Spatial Analysis</td>
<td>3</td>
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<tr>
<td>ERTH 303 - Weather and Climate</td>
<td>3</td>
</tr>
<tr>
<td>GPHY 425 - Geographic Thought (Capstone Course in Senior Year)</td>
<td>3</td>
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<td>Choose five of courses from the following and one methods course OR four courses from the following and two methods courses:</td>
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<tr>
<td>ERTH 307 - Principles of Geomorphology</td>
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<tr>
<td>ERTH 450R - Snow Dynamics and Accumulation</td>
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<tr>
<td>GPHY 322 - Economic Geography</td>
<td>3</td>
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<tr>
<td>GPHY 325 - Cultural Geography</td>
<td>3</td>
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<tr>
<td>GPHY 326 - Geography of Energy Resources</td>
<td>3</td>
</tr>
<tr>
<td>GPHY 329 - Environment and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

| **Erth 212RN** | **Yellowstone: Scientific Lab** | **4** |

Take an additional 9 credits of Advisor-approved upper division electives 9

The advisor-approved upper division electives (minimum 9 credits) will be selected from course offerings in Anthropology, Economics, History, Native American Studies, Political Science, Sociology, as well as Earth Science, Geology, and Geography (1 course only from within the department). The courses used here cannot be used to fulfill the other course requirements in the Geography Option.

** **departments:

- **ANTY 101D** - Anthropology and the Human Experience 3
- **ANTY 225IS** - Culture, Language, and Society 3
- **PSCT 210IS** - Introduction to American Government 3
- **SOCI 101IS** - Introduction to Sociology 3
- **ECNS 101IS** - Economic Way of Thinking 3
- **ECNS 202** - Principles of Macroeconomics 3

Choose 12 credits from the following:

- **BIOB 170IN** - Principles of Biological Diversity 4
- **CHMY 121IN** - Introduction to General Chemistry 4
- **GEO 105IN** - Oceanography 3
- **ENSC 245IN** - Soils 3
- **ERTH 212RN** - Yellowstone: Scientific Lab 4

Take an additional 9 credits of Advisor-approved upper division electives 9

The advisor-approved upper division electives (minimum 9 credits) will be selected from course offerings in Anthropology, Economics, History, Native American Studies, Political Science, Sociology, as well as Earth Science, Geology, and Geography (1 course only from within the department). The courses used here cannot be used to fulfill the other course requirements in the Geography Option.

** **departments:
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.