### Geography Major – Physical-Environmental Track – Fall 2014

#### 16 units core
- 100 Introduction to Geography 1 unit
- 210 Physical Geography 5 units
- 230 Human Geography 3 units
- 270 GIS I: Introduction to GIS and Mapping 3 units
- 400 Capstone in Geography 1 unit
- 4XX One course from list below: 3 units
  - 420 Human and Climate Interactions
  - 423 Rivers and Floods
  - 440 Applied Business GIS Applications
  - 444-Urban Land Use Planning
  - 452 Cultural Ecology & Sustainable Development
  - 455 Advanced Topics in Human Geography
  - 460 GIS In Water Resources
  - 470 Applied Environmental & Natural Resources GIS
  - 477 Advanced GIS
  - 485 Internship in Geography
  - 491 Travel Study – Geography or Geology
  - 492 Field Course – Geography or Geology
  - 499 Geography Thesis

#### 6-9 units from Physical Systems Courses
- 300 Soil Science 3 units
- 310 Geomorphology 3 units
- 320 Meteorology and Climate 3 units
- 330 Biogeography 3 units
- 423 Rivers and Floods 3 units

#### 6-9 units from Environmental Systems Courses
- 252 Human Environmental Problems 3 units
- 323 Water Resources 3 units
- 352 Geohazards 3 units
- 420 Human and Climate Interactions 3 units
- 423 Rivers and Floods 3 units
- 452 Cultural Ecology and Sustainable Development 3 units

Optional Environmental Systems Courses (maximum 3 units)
- 301 Environmental Geology (Geology) 3 units
- 257 Introduction to Ecology (Biology) 3 units

#### 3-6 units from Techniques Courses
- 290 Spatial Analysis 3 units
- 370 GIS I: Spatial Data and Analysis 3 units
- 377 Remote Sensing of the Environment 3 units
- 380 Cartography and Geovisualization 3 units
- 450 Advanced Methods in Physical Geography 4 units
- 460 GIS in Water Resources 3 units
- 470 Applied Environmental & Natural Resource GIS 3 units
- 477 Advanced GIS 3 units

#### 34 Minimum units in Geography

#### 3 units in English
- 370 Advanced Composition 3 units
- 372 Technical and Scientific Writing 3 units
**Suggested Minors**

Biology  
Geology  
Chemistry  
Physics  
Math  
Computer Science

**Your Bachelor’s Degree**

Note this track requires that students pursue a B.S. degree. The B.S. degree requires at least 10 credits of lab courses and 3-5 credits of math beyond 141. See the Undergraduate Bulletin for details.

**Graduate School**

For students considering graduate school, taking a statistics course would be wise since most graduate programs will require such a course. This track is designed to prepare the student for graduate studies in physical geography, environmental science, and climatology.

**Student Portfolio**

Students should be maintaining a portfolio which will contain examples of their work (papers, maps, GIS project, etc.) and effectively advertise their knowledge and skill level to potential internship agencies and most importantly to employers after graduation.