

## BACHELOR OF SCIENCE IN GEOGRAPHY

The Bachelor of Science Geography Major consists of a minimum of 36 units taken from the course offerings of the School of Geography and Development, including a minimum of 21 units at the upper division level.

### **Best Introductory Courses**

INDV 102 Human Geography and Global Systems

INDV 103 Environment and Society

NATS 101 Earth's Environments: Introduction to Physical Geography

### **1. Foundation Courses (3 units)**

MATH 160 Basic Statistics (or approved course)

### **2. Core Courses (6 units)**

A. An introductory human geography course (3 units):

GEOG 210 Political and Cultural Geography of Globalization

GEOG 251 World Regional Geography

GEOG 256 Sustainable Cities.

B. An introductory physical geography course (3 units):

GEOG 220 Our Diverse Biosphere

GEOG 230 Our Changing Climate

GEOG 240 Our Dynamic Landscape

SWES 200 Environmental Science (CHEM 103A Prerequisite)

### **3. Methods courses (9 units):**

GEOG 330 Introduction to Remote Sensing

GEOG 357 Geographical Research Methods

GEOG 416A Computer Cartography

GEOG 457 Statistical Techniques in Geography

## **CHOOSE A CONCENTRATION (15 units)**

### **Physical Geography**

4. Concentration Method (3 units):

GEOG 303 Field Methods

5. Physical Geography (12 units):

must not duplicate the courses taken in 2B

GEOG 220 Our Diverse Biosphere

GEOG 230 Our Changing Climate

GEOG 240 Our Dynamic Landscape

GEOG 430 The Climate System

GEOG 431 Global and Regional Climate

GEOG 450 Geomorphology

GEOG 478 Global Change

GEOG 438 Biogeography

GEOG 439A Intro to Dendrochronology

GEOG 406L/R Conservation Biology

GEOG 483 Geographical Applications of Remote Sensing

GEOG 484 Fire Mapping (430 Prerequisite)

### **Geographic Information Science**

4. Concentration Method (3 units):

GEOG 417 Geographic Information Systems (416A)

5. Advanced Methods (12 units):

GEOG 416C Urban Geographic Information Systems (417 Prerequisite)

GEOG 416D PPGIS: Participatory Approaches in Geographic Information Science (403 or 417 Prerequisite)

GEOG 416E Geovisualization (GIS) (416A and 417 Prerequisite)

GEOG 419 Cartographic Modeling (417 Prerequisite)

GEOG 420 Advanced Geographic Information Systems (417 Prerequisite)

GEOG 422 Resource Mapping

GEOG 424 Integrated GIS (417 Prerequisite)

GEOG 458 Geography of Transportation

GEOG 473 Spatial Analysis & Modeling (417; Statistics Prerequisites)

GEOG 483 Geographical Applications of Remote Sensing (330 Prerequisite)

GEOG 484: Fire Mapping (330 Prerequisite)

## **Water, Land, & Society**

### **4. Concentration Method (3 units):**

GEOG 303 Field Methods

### **5. Water, Land, & Society Courses (12 units):**

GEOG 304 Water, Environment & Society

GEOG 367 Population Geography

GEOG 379 Urban Growth and Development

GEOG 404 Politics of Nature

GEOG 430 The Climate System

GEOG 438 Biogeography

GEOG 461 Environmental and Resource Geography

GEOG 467 Water Resource Assessment

GEOG 468 Water and Sustainability

RNR 472 Envr Land Use Planning

GEOG 478 Global Change

GEOG 488 Governing Science and Technology

### **6. Geography Major Elective (3 units):**

Any 300 or 400 GEOG course.

**Substitution Policy: All substitutions must be approved in advance by Faculty Advisors**