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 Envir 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