## Curriculum and Recommended Schedule --- B.S. in GEOGRAPHY

### FALL Semester
- **GEOG 1105 Intro to Human Geography**
- **ESCI 1101 Physical Geography**
- **ESCI 1101 Physical Geography - Lab**
- **GEOG 1103 Spatial Thinking**
- **WRDS 1103 or 1104 Writing and Inquiry**

### First Year
- **SPRING Semester**
  - **GEOG 1501 Global Geography**
  - **GEOG 1511 Urban and Regional Planning**
  - **STAT 1220 or 1221 or 1222**
  - **1502 Global - Arts and Humanities**
  - **1512 Local - Arts and Humanities**

### Second Year
- **GEOG 2110-Intro to Geographic Research**
- **GEOG 3120-Fundamentals of GIS**
  - **MATH/STAT/PHIL 2105 or ITSC 1110**
  - **FORL 1201 (or proficiency)**

### Third Year
- **Major Subgroup Elective * **
  - **Major Elective **
  - **General Elective**
  - **General Elective**
  - **General Elective**

### Fourth Year
- **GEOG 4600-Professional Development Seminar**
- **Major Elective **
  - **Major Elective **
  - **General Elective**
  - **General Elective**
  - **General Elective**

### Elective Options:

#### Urban, Social, and Economic
- **Minimum of 5 hours**
  - GEOG 2105: Intro to Economic Geography (3)
  - GEOG 2165: Patterns of World Urbanization (3)
  - GEOG 2200: Intro to Urban Studies (3)
  - GEOG 3109: The City and Its Region (3)
  - GEOG 3115: Urban Transportation Problems (3)
  - GEOG 3210: Internal Structure of the City (3)
  - GEOG 3108: Sustainable Cities (3)
  - GEOG 3220: Renewable Energy and Regional Energy Markets (3)
  - GEOG 4108: Sport, Place, and Development (3)
  - GEOG 4220: Housing Policy (3)
  - GEOG 4250: Food, Migration, and Place (3)
  - GEOG 4255: Applied Population Analysis (3)
  - GEOG 4310: Urban Social Geography (3)
  - GEOG 4315: The Urban Form (3)
  - GEOG 4160: Geography of Transportation Systems (3)
  - GEOG 4405 Urban Field Geography (3)

#### Planning
- **Minimum of 3 hours**
  - GEOG 2111: Social Inequality and Planning (3)
  - GEOG 3215: Environmental Planning (3)
  - GEOG 3230: Land Use Planning (3)
  - GEOG 3230: Regional Planning (3)
  - GEOG 4209: Small Town Planning (3)
  - GEOG 4210: Urban Planning Methods (3)

#### Human-Environment Interaction
- **Minimum of 3 hours**
  - GEOG 2140: Geography of NC (3)
  - GEOG 2160: The South (3)
  - GEOG 3250: World Food Problems (3)
  - GEOG 3102: Plant Geography (3)
  - GEOG 4215: Urban Ecology (3)
  - GEOG 3250: Medical Geography (3)
  - GEOG 3108: Hazards and Disasters (3)
  - ESCI 3000: Water and Disease (3)
  - ESCI 4146: Applied Ecosystem Restoration (3)
  - ESCI 3000: Food System Justice (3)
  - ESCI 3170: Environ Quality Management (3)
  - ESCI 3101: Global Env. Change (3)
  - ESCI 4190: Contemporary Environmental Issues (3)

### GIS and T
- **Choose two of the following**
  - GEOG 2132: Cartographic Design (4)
  - GEOG 4131: Environmental Modeling with GIS (4)
  - GEOG 4132: Spatial Modeling for Social and Economic App (3)
  - GEOG 4140: Geographic Information Techniques for Community Planning (4)
  - GEOG 4150: Retail Location (3)
  - ESCI 4170: Fundamentals of Remote Sensing (4)
  - GEOG 4103: Computer Programming for GIS Applications (3)
  - GEOG 4180: Web GIS (3)
  - GEOG 4150: Spatial Database Development with GIS and GPS (3)
  - ESCI 4180: Digital Image Processing in Remote Sensing (4)

### General Education Requirement
- **BS Geography Degree total hours** 58
- **UNCC Required Degree total hours** 120

A total of 9 additional major elective hours can be chosen from any geography or any earth/environmental science 3xxx or 4xxx class, any topics (ESCI 3000/4000 or GEOG 2000/3000/4000), internship (ESCI 4400 or GEOG 4400), seminar (ESCI 4600 or GEOG 4600), or independent study (ESCI 4800 or GEOG 4800) course.

**Note:** Only 6 credits 3xxx and 4xxx Major electives can be double counted between GEOL, EVSI, EVST, and GEOG degrees.