SIUE Department of Geography & GIS: Requirements for a Major in Geography

**General Information:** The major in Geography is 36 credit hours. Students must earn a ‘C’ or better in all of their geography courses. Geography majors must have either a minor in another field or an Area of Specialization (AOS). The AOS is 18 additional credit hours (Geography courses cannot count for both the major and an AOS. The AOS must be developed in consultation with a Geography faculty member.

**Advising Information:** All new Geography majors must meet with Dr. Susan Hume (Phone: 618-650-2091 / Email: shume@siue.edu) before the end of their first semester as a declared major. CAS Advising (Phone 618-650-5525 / Email: casadvising@siue.edu) will provide students with registration PINs and track progress toward graduation. Students are strongly encouraged to meet with any Geography faculty member for mentoring, career/internship advice, and AOS and Senior Assignment advising during their undergraduate career.

**Major Requirements:**

### Core Courses (15 credit hours)

- GEOG201: World Regions
- GEOG205: Human Geography
- GEOG210: Physical Geography
- GEOG320: Cartography
- GEOG321: Quantitative Techniques

### Upper Level Sub-Discipline Electives (18 credit hours)

- **Human Geography Electives (2 courses required; Prerequisite: GEOG205)**
  - GEOG300: Population Geography
  - GEOG301: Economic Geography
  - GEOG303: Introduction to Urban Geography
  - GEOG401: Development
  - GEOG402: The Cultural Landscape
  - GEOG403: Advanced Urban Geography
  - GEOG404: Medical Geography
  - GEOG405: Geography of Food
  - GEOG406: Political Geography
  - GEOG407: Spatial Thinking & Behavior
  - GEOG418: GIS
  - GEOG441: Topics in Human Geography

- **Physical Geography Electives (2 courses required; Prerequisite: GEOG210)**
  - GEOG311: Atmospheric Hazards
  - GEOG314: Climatology
  - GEOG315: Geomorphology
  - GEOG316: Biogeography
  - GEOG317: River Landscapes
  - GEOG318: Snow & Ice Processes
  - GEOG319: Storm Chasing
  - GEOG320: Soils
  - GEOG408: Conservation Biogeography
  - GEOG411: Hydrology
  - GEOG412: Groundwater Hydrology
  - GEOG413: Animal Geography
  - GEOG414: Floods
  - GEOG415: Animal Geography
  - GEOG416: Conservation Biogeography
  - GEOG417: River Landscapes
  - GEOG418: GIS
  - GEOG441: Topics in Physical Geography

- **Regional Geography Electives (1 course required; Prerequisite: GEOG201)**
  - GEOG330: Europe
  - GEOG331: CIS
  - GEOG332: Africa
  - GEOG333: Asia
  - GEOG433: Latin America
  - GEOG435: North America
  - GEOG453: Topics in Regional Geography

- **Techniques Electives (1 course required; Prerequisite: GEOG320)**
  - GEOG322: Remote Sensing
  - GEOG323: Computer Mapping
  - GEOG418: GIS
  - GEOG424: Vector GIS
  - GEOG419: Thematic Cartography
  - GEOG425: Raster GIS
  - GEOG420: Interactive & Animated Cartography
  - GEOG431: Web-based Online Mapping
  - GEOG421: Digital Elevation Modeling
  - GEOG432: Python Scripting
  - GEOG422: Remote Sensing
  - GEOG454: Topics in Techniques

*Revised: December 2023*  [https://www.siue.edu/arts-and-sciences/geography/](https://www.siue.edu/arts-and-sciences/geography/)
Senior Assignment (3 credit hours; Prerequisite: GEOG321 and Senior Standing)

☐ GEOG499: Senior Assignment
Senior Assignment (SA) spans two semesters; register only once in your second-to-last semester.

Minor or Area of Specialization: Either a minor or an Area of Specialization must be declared. Students who have a double-major do not need to complete a minor or AOS. The AOS worksheet (below) must be completed in consultation with a Geography faculty member (signatures are required).

Minor: I ☐ have / ☐ plan to declare a minor in:

AOS: I ☐ have declared an AOS in consultation with Dr. in the area of:

Double-major: I ☐ have a second major in:

AOS Worksheet (18 credit hours minimum): None of the AOS courses may be counted toward major requirements.

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Signatures (required for AOS only)

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