

# GEOGRAPHY & GEOGRAPHIC INFORMATION SCIENCE: GEOGRAPHIC INFORMATION SCIENCE, BSLAS

**For the Degree of Bachelor of Science in Liberal Arts & Sciences: Major in Geography & Geographic Information Science, Geographic Information Science Concentration**

**department catalog page: Geography** (<http://catalog.illinois.edu/las/geography>)  
**department website:** <https://www.geog.illinois.edu/>  
**department faculty: Geography Faculty** (<https://www.geog.illinois.edu/people>)  
**overview of college admissions & requirements: Liberal Arts & Sciences** (<http://catalog.illinois.edu/las>)  
**college website:** <https://las.illinois.edu/>  
**email:** [geography@illinois.edu](mailto:geography@illinois.edu)

A Major Plan of Study Form must be completed and submitted to the LAS Student Affairs Office by the beginning of the fifth semester (60-75 hours).

**Departmental distinction: Students majoring in Geography and Geographic Information Science can earn distinction, high distinction, and highest distinction upon graduation. The requirements for these awards are:**

- For distinction: 3.3 GPA overall; 3.3 GPA in GIS courses.
- For high distinction: 3.3 GPA overall; 3.75 GPA in GIS courses.
- For highest distinction: 3.3 GPA overall; 3.75 GPA in GIS courses; satisfactorily complete an
- independent project (GEOG 391).

Students should consult their advisors regarding distinction requirements as soon as they enter the major (no later than the end of their junior year).

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**General education: Students must complete the Campus General Education** (<https://courses.illinois.edu>) **requirements including the campus general education language requirement. Minimum required major and supporting course work: a minimum of 40 upper-division hours. Twelve (12) hours of 300- and 400-level courses in the major must be taken on this campus.**

## Geography and Geographic Information Science Core Requirements

Code	Title	Hours
<b>Total Core Hours</b>		10-16
<b>Select one of the following three(3) courses:</b>		3-4
GEOG 100	Introduction to Meteorology	
GEOG 103	Earth's Physical Systems	
GEOG 222	Big Rivers of the World	
<b>Select one of the following six (6) courses:</b>		3-4

GEOG 101	Global Development&Environment	
GEOG 104	Social and Cultural Geography	
GEOG 105	The Digital Earth	
GEOG 106	Geographies of Globalization	
GEOG 210	Social & Environmental Issues	
GEOG 221	Geographies of Global Conflict	
<b>Select one of the following two (2) courses:</b> <sup>1</sup>		4-8
GEOG 371	Spatial Analysis	
GEOG 379	Intro to GIS Systems	

<sup>1</sup> Students pursuing the Geographic Information Science Concentration are required to take both GEOG 371 and GEOG 379.

## Geographic Information Science Concentration Requirements

Code	Title	Hours
<b>Total concentration-required hours</b>		26-30
GEOG 371	Spatial Analysis	4
GEOG 380	GIS II: Spatial Prob Solving	4
<b>Select one of the following courses:</b>		3
CS 105	Intro Computing: Non-Tech	
CS 125	Intro to Computer Science	
or equivalent course approved by the Department's Advisor		
<b>Select a minimum of three courses from the following:</b>		9-11
GEOG 205	Business Location Decisions	
GEOG/SOC 280	Intro to Social Statistics	
GEOG 412	Geospatial Tech & Society	
GEOG/ATMS 421	Earth Systems Modeling	
GEOG/PATH 439	Health Applications of GIS	
GEOG 460	Aerial Photo Analysis	
GEOG 468	Biological Modeling	
GEOG 473	Digital Cartography & Map Design	
GEOG 476	Applied GIS to Environ Studies	
GEOG 477	Introduction to Remote Sensing	
GEOG 478	Techniques of Remote Sensing	
GEOG 479	Advanced Topics in GIS	
GEOG 480	Principles of GIS	
GEOG 489	Programming for GIS	
<b>Select two human and/or physical geography courses:</b>		6-8
GEOG 204	Cities of the World	
GEOG 210	Social & Environmental Issues	
GEOG 221	Geographies of Global Conflict	
GEOG 222	Big Rivers of the World	
GEOG 224	Geog Patterns of Illinois	
GEOG 287	Environment and Society	
GEOG 350	Sustainability and the City	
GEOG 356	Sustainable Development in South Asia	
GEOG 370	Water Planet, Water Crisis	
GEOG 384	Population Geography	
GEOG 401	Watershed Hydrology	

GEOG 405	Geography Field Course	
GEOG 406	Fluvial Geomorphology	
GEOG 408	Humans and River Systems	
GEOG 410	Green Development	
GEOG 436	Biogeography	
GEOG 438	Geography of Health Care	
GEOG 446	Sustainable Planning Seminar	
GEOG 455	Geog of Sub-Saharn Africa	
GEOG 465	Transportation & Sustainability	
GEOG 466	Environmental Policy	
GEOG 471	Recent Trends in Geog Thought	
GEOG 482	Challenges of Sustainability	
GEOG 483	Urban Geography	
GEOG 484	Cities, Crime, and Space	
GEOG 493	Democracy and Environment	
GEOG 496	Climate & Social Vulnerability	
Total hours required for graduation		120