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

A Bachelor of Science in Geography & Geographic Information Science with Geographic Information Science concentration prepares students to use cutting-edge geospatial technologies and data to examine environmental and social issues; support business decisions; protect the environment; and manage the massive amounts of spatial data generated from mobile devices and sensor networks. The GIS concentration provides in-depth practical and field training, preparing students for geospatial careers- one of the fastest-growing domestic job sectors.

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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 & GIS Core Requirements

Code	Title	Hours
Total Core Hours		10-16
Select one of the following three(3) courses:		3-4
GGIS/ATMS 100	Introduction to Meteorology	
GGIS 103	Earth's Physical Systems	
GGIS 222	Big Rivers of the World	
Select one of the following six (6) courses:		3-4
GGIS 101	Global Development & Environment	
GGIS 104	Social and Cultural Geography	
GGIS 105		
GGIS 106	Geographies of Globalization	
GGIS 210	Social & Environmental Issues	
GGIS 221	Geographies of Global Conflict	
GIS Core (2) courses:		4-8
· · ·	ing the Geographic Information Science quired to take both GGIS 371 and GGIS 379.)	
GGIS 371	Spatial Analysis	
GGIS 379	Introduction to Geographic Information Systems	

Code	Title	Hours		
Geographic Information Science Concentration Requirements				
GGIS 371	Spatial Analysis			
GGIS 380	Geographic Information Systems II			
Select one (1) of the following courses:				
CS 105	Intro Computing: Non-Tech			
CS 124	Introduction to Computer Science I			
or equivalent cours	se approved by the Department's Advisor			
Select a minimum of	three (3) courses from the following:	9-11		
GGIS 205	Business Location Decisions			
GGIS/SOC 280	Intro to Social Statistics			
GGIS 407	Foundations of CyberGIS & Geospatial Data Science			
GGIS 412	Geospatial Technologies & Society			
GGIS/ATMS 421	Earth Systems Modeling			
GGIS/PATH 439	Health Applications of GIS			
GGIS 460	Aerial Photo Analysis			
GGIS 468	Biological Modeling			
GGIS 473	Digital Cartography & Map Design			
GGIS 476	Environmental Remote Sensing			
GGIS 477	Introduction to Remote Sensing			
GGIS 478	Techniques of Remote Sensing			
GGIS 479	Advanced Topics in GIS			
GGIS 480	Principles of Geographic Information Science			
0010 400				
GGIS 489	Programming for GIS	6-8		
GGIS 204	and/or physical geography courses: Cities of the World	0-0		
GGIS 210	Social & Environmental Issues			
GGIS 221	Geographies of Global Conflict			
GGIS 222	Big Rivers of the World			
GGIS 222	Environmental Data Science			
GGIS/NRES 287	Environment and Society			
GGIS 350	Sustainability and the City			
GGIS 356	Sustainable Development in South Asia			
	Water Planet, Water Crisis			
GGIS 370/ESE 320	Population Geography			
GGIS/NRES 401	Watershed Hydrology			
GGIS 405	Geography Field Course			
GGIS 405	• • •			
GGIS 400	Fluvial Geomorphology Humans and River Systems			
GGIS 408	Green Development			
GGIS 436	•			
	Biogeography Geography of Health Care			
GGIS 438 GGIS/LA 446	• • •			
	Sustainable Planning Seminar			
GGIS 455	Geography of Sub-Saharan Africa			
GGIS 465	Transportation & Sustainability			
GGIS 466	Environmental Policy			
GGIS 471	Modern Geographic Thought			
GGIS/ESE 482	Challenges of Sustainability			
GGIS 483	Urban Geography			
GGIS 484	Cities, Crime, and Space			

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GGIS 496	Climate & Social Vulnerability		
Total Hours Geographic Information Science Concentration Hours 26-30			
Total Hours Required for Graduation		120	

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Sample Sequence

This sample sequence is intended to be used only as a guide for degree completion. All students should work individually with their academic advisors to decide the actual course selection and sequence that works best for them based on their academic preparation and goals. Enrichment programming such as study abroad, minors, internships, and so on may impact the structure of this four-year plan. Course availability is not guaranteed during the semester indicated in the sample sequence.

Students must fulfill their Language Other Than English requirement by successfully completing a fourth level of a language other than English. See the corresponding section on the Degree and General Education Requirements page (http://catalog.illinois.edu/general-information/ degree-general-education-requirements/).

First Year

First Semester GGIS 103 (or GGIS 100 or GGIS 222)	Hours Second Semester 4 Geography & GIS core course	Hours 4
Free elective course	1 General Education course or Composition 1	4
Language Other than English (3rd level)	4 Language Other than English (4th level)	4
Composition I or General Education course	3 Free elective course	4
Free elective course	3	
	15	16
Second Year	15	16
Second Year First Semester	15 Hours Second Semester	16 Hours
First Semester	Hours Second Semester	Hours
First Semester GGIS 371 General	Hours Second Semester 4 GGIS 379 3 Geographic Informational Science Concentration	Hours 4
First Semester GGIS 371 General Education course General	Hours Second Semester 4 GGIS 379 3 Geographic Informational Science Concentration course 3 General	Hours 4 4

Third Year		
First Semester	Hours Second Semester	Hours
GGIS 380	4 Geographic Information Science Concentration course	3
Human and/ or Physical Geography course	4 CS 105 or 124	3
General Education Course	3 General Education Course	3
General Education Course	3 Free elective course	3
Free elective course	3 Free elective course	3
	17	15
Fourth Year		
First Semester	Hours Second Semester	Hours
Geographic Information Science Concentration course	3 Human and/ or Physical Geography course	4
General Education Course	3 Free elective course	3
General Education Course	3 Free elective course	3
Free elective course	3 Free elective course	3
	3 Free elective	2
Free elective course	course	

Total Hours 120

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Undergraduate Degree Programs in Geography & Geographic Information Science

For the Degree of Bachelor of Science in Liberal Arts and Sciences

- Major in Computer Science & Geography & GIS, BSLAS (http:// catalog.illinois.edu/undergraduate/eng_las/computer-sciencegeography-geographic-information-science-bslas/)
- Major in Geography & Geographic Information Science, Geographic Information Science Concentration, BSLAS (p. 1)
- Major in Geography & Geographic Information Science, Physical Geography Concentration, BSLAS (http://catalog.illinois.edu/

undergraduate/las/geography-geographic-information-science-bslas/ physical-geography/)

For the Degree of Bachelor of Arts in Liberal Arts and Sciences

- Major in Geography & Geographic Information Science, General Geography Concentration, BALAS (http://catalog.illinois.edu/ undergraduate/las/geography-geographic-information-science-balas/ general-geography/)
- Major in Geography & Geographic Information Science, Human Geography Concentration, BALAS (http://catalog.illinois.edu/ undergraduate/las/geography-geographic-information-science-balas/ human-geography/)

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Geography & Geographic Information Science

Department homepage (https://ggis.illinois.edu/) Faculty directory (https://ggis.illinois.edu/directory/faculty/) Undergraduate advising (https://ggis.illinois.edu/academics/ undergraduate/advising/)

College of Liberal Arts & Sciences

College of LAS homepage (https://las.illinois.edu/) Admissions & Requirements (http://catalog.illinois.edu/schools/las/ academic-units/)

Admissions

University of Illinois Urbana-Champaign Undergrad Admissions (https://www.admissions.illinois.edu/)