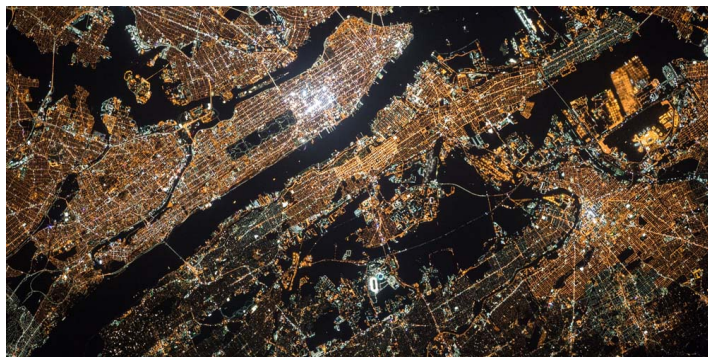


GEOGRAPHY, APPLIED (BS)



This program was approved for students entering the university in the Summer 2025-Spring 2026 catalog year. For more information about catalog year, go to Catalog Year Information (<https://catalog.louisville.edu/undergraduate/university-wide-unit-specific-policies/catalog-year/>).

Bachelor of Science in Applied Geography

Unit: College of Arts and Sciences (<http://www.louisville.edu/a-s/>) (AS)

Department: Geographic and Environmental Sciences (<https://louisville.edu/geogeo/>)

Academic Plan Code(s): See Track Requirements tab

Program Information

Geographers investigate the character and possible associations between a subject and its environment. The Department of Geographic and Environmental Sciences educates students to view the world in a spatial and time-dependent context to determine relationships between people and their immediate and global environment.

The department offers Bachelor of Science degrees in five different tracks:

- Environmental Sciences: designed for students who are interested in the environment and environmental sustainability.
- Geospatial Technologies: designed for students who are interested in developing geospatial technologies like GIS and remote sensing.
- Human and Cultural Dynamics: designed for students interested in the forces that shape human environments like population trends, sustainable development, ethnic and racial segregation, globalization and geopolitics.
- Meteorology: designed for students interested in operational meteorology and meets NOAA requirements to work for the National Weather Service.
- Urban Analytics: designed for students interested in using data science and geospatial technologies to analyze processes that shape urban environments and solve urban problems.

Completion of this degree requires work to be submitted for the department's Learning Outcomes Measurement. For details, contact the department.

Degree Summary

Code	Title	Hours
General Education Requirements (https://catalog.louisville.edu/undergraduate/general-education-requirements/) ¹		31

College/School Requirements	13-15
Program/Major Requirements ¹	30
Track Requirements	24-30
Supporting Courses	6-26
Minimum Total Hours	121

¹ Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.

Specific coursework information can be found on the Degree Requirements tab.

Accelerated BS/MS in Applied Geography

The Department of Geographic and Environmental Sciences offers an accelerated BS/MS program in which exceptional majors in any of the BS Applied Geography degree tracks may earn up to 9 graduate-level credit hours (at either the 500 or 600 level) during their Senior year. These graduate-level courses are then counted towards both the BS and MS Applied Geography degrees, allowing students to go on and complete the graduate degree with the remaining graduate hours, saving both time and expense. If enrolling full time in the graduate program, students may graduate with the MS Applied Geography degree in as little as 2-3 semesters, instead of the usual 4.

Undergraduate students interested in participating in an accelerated dual bachelor's/ master's degree offered through the Soaring Scholar (<https://graduate.louisville.edu/academics/programs/soaring/>) program must first meet with their Academic Advisor and be accepted into the program. Once accepted, students will receive an official admission letter outlining program policies and details. They will then work with their department and academic advisor to register for classes each semester, ensuring they meet the milestones and academic progress requirements of the Soaring Scholar program. A Soaring Scholar student is considered an undergraduate student until their bachelor's degree is conferred. In their final undergraduate semester, they are expected to apply for admission to their respective master's program.

Departmental Admission Requirements

There are no specific admission requirements for students in the traditional degree plan. The Change Major Request form can be found under the Academic Progress tile on ULink.

Admission and Application to the Accelerated BS/MS Applied Geography Soaring Scholars Program

Students interested in applying to the BS/MS Applied Geography Soaring Scholars program should follow the application process outlined in the Soaring Scholars Application Checklist (<https://graduate.louisville.edu/academics/programs/soaring/>).

The minimum requirements for the BS/MS Applied Geography Soaring Scholars program are listed in the Soaring Scholars Application Checklist (<https://graduate.louisville.edu/academics/programs/soaring/>).

Admission to a Soaring Scholar program does not guarantee admission into the associated master's degree program. Soaring Scholar students must apply to the associated graduate program in their last semester,

before graduating with the bachelor's degree, to be considered for the Accelerated Master's graduate program. They must meet all the requirements for admission to the graduate program at the time of application to be admitted. Learn more about the graduate admissions process (<https://graduate.louisville.edu/admission/apply/>) and admission requirements for the Applied Geography Master's program (<https://catalog.louisville.edu/graduate/programs-study/master-science-applied-geography/#text>).

General Education Requirements

Code	Title	Hours
General Education Requirements (https://catalog.louisville.edu/undergraduate/general-education-requirements/) ¹		31
The following courses are required by the program and can satisfy the respective General Education Requirement:		
GEORG 200	Human Geography in a Changing World - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
GEORG 300	Globalization and Diversity - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
ENVS 200	The Global Environment - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	

* Meteorology track also requires ENVS 220/PHYS 220, PHYS 295, PHYS 298 and MATH 205.

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

College/School Requirements

Code	Title	Hours
Arts & Sciences Requirements		
GEN 100 or GEN 101	Student Success Center First Year Experience Arts & Sciences First Year Experience	1
Foreign Language ²		6-8
Electives in Natural Sciences or Humanities at the 300 level or above ³		6
WR—two approved courses at the 300 level or above ⁴		
Minimum Total Hours		13-15

Program/Major Requirements

Code	Title	Hours
Department of Geography and Environmental Sciences		
ENVS 200	The Global Environment - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ENVS 363	Climate Science	3

GEORG 200	Human Geography in a Changing World - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEORG 256	Introduction to Quantitative Methods in Geography and Geosciences - QR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEORG 300	Globalization and Diversity - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEORG 356	Introduction to Spatial Statistics	3
GEORG 370	Introduction to Field Methods in Geography	3
GEORG 441	Senior Thesis Proposal - WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/) ⁴	3
GEORG 442	Senior Thesis - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/), WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/) ⁴	3
GEORG 558	Introduction to Geographic Information Systems	3
Minimum Total Hours		30

Code	Title	Hours
Track Requirements (see Track Requirements tab)		24-30
Code	Title	Hours
Supporting Courses (see Track Requirements tab)		6-26

At least 50 of the total minimum hours required must be at the 300 level or above.

Code	Title	Hours
Culminating Undergraduate Experience (Graduation requirement)		
Requirement fulfilled by completing:		
GEORG 442	Senior Thesis - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/), WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	

¹ Some credit hours from the General Education Requirements may be satisfied by courses defined by the program, in which case additional electives will be required to complete the minimum hours for the degree.

² Completion of the second semester of a single foreign language; hours will vary depending on the language taken

³ Students in the Meteorology track satisfy this requirement by completing the track. Please consult the Track Requirements tab for more information.

⁴ Fulfills WR requirement.

Track Requirements

Track in Meteorology

Academic Plan Code(s): GEOGBS_MET

Code	Title	Hours
ENVS 220	Introduction to Weather and Climate - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ENVS 305	Introduction to Weather Analysis	3
ENVS 366	Dynamic Meteorology	3
ENVS 370	Thermodynamic Meteorology	3
ENVS 452	Physical Meteorology	3
ENVS 465	Mesoscale Meteorology	3
ENVS 469	Synoptic Meteorology	3
GEOG 355	Introduction to Remote Sensing	3
Minimum Total Hours		24

Code	Title	Hours
Supporting Courses for Meteorology		
PHYS 295	Introductory Laboratories I - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	1
PHYS 298	Introductory Mechanics, Heat and Sound - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	4
PHYS 299	Introductory Electricity, Magnetism and Light	4
MATH 205	Calculus I - QR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	4
MATH 206	Calculus II	4
MATH 325	Introduction to Linear Algebra	3
MATH 405	Differential Equations	3
GEOG 385	Introduction to Programming for GIS and Spatial Data Analysis	3
or ENVS 564	Hydrology	
Minimum Electives ^{1, 2}		0-26
Minimum Total Hours		26-52

¹ Students who satisfy General Education Requirements by courses defined by the program will require additional electives to complete the minimum hours for the degree.

² Some free electives at the 300+ level may be required to reach a minimum of 50 hours at the 300+ level.

Track in Environmental Sciences

Academic Plan Code(s): GEOGBS_ENV

Code	Title	Hours
Environmental Foundation		
ENVS 301	Geology for Scientists and Engineers	3
ENVS 360	Global Environmental Change	3
ENVS 365	Biogeography	3
ENVS 564	Hydrology	3

GEOG 340	Environmental Conflict in the United States: Historical Foundations & Contemporary Problems - D1 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SBH (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 350	Introduction to Mapping and Geospatial Technologies	3
GEOG 355	Introduction to Remote Sensing	3
Environmental Specialization		
Select three of the following courses:		9
ENVS 367	Geomorphology	
ENVS 565	Natural Hazards	
ENVS 570	Water Resource Management	
ENVS 571	GIS and Water Resources	
GEOG 361	Sustainable Human Environments - WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
GEOG 525	Measuring Sustainability: Our Human Planet	
GEOG 540	Geography and Human-Environment Interactions (Select 3)	
Minimum Total Hours		30

Code	Title	Hours
Supporting Courses for Environmental Sciences		
Electives in Social Sciences, other than Geography, at the 300 level or above		6

Track in Geospatial Technologies

Academic Plan Code(s): GEOGBS_GST

Code	Title	Hours
Geospatial Technologies Foundation		
GEOG 350	Introduction to Mapping and Geospatial Technologies	3
GEOG 355	Introduction to Remote Sensing	3
GEOG 385	Introduction to Programming for GIS and Spatial Data Analysis	3
GEOG 545	Unoccupied Aerial Systems and Geospatial Applications	3
GEOG 556	Advanced Remote Sensing	3
GEOG 559	Advanced Geographic Information Systems	3
GEOG 590	Special Topics	3
Geospatial Technologies Specialization		
Select three of the following:		9
ENVS 452	Physical Meteorology	
ENVS 571	GIS and Water Resources	
GEOG 522	GIS and Public Health	
GEOG 525	Measuring Sustainability: Our Human Planet	
GEOG 530	Transportation Geography	
GEOG 531	GIS & Urban Demographic Analysis	
GEOG 535	GIS and Retail Site Analysis	

GEOG 583	Spatial and Non-Spatial Database Management	
Minimum Total Hours		30

Code	Title	Hours
Supporting Courses for Geospatial Technologies		
Electives in Social Sciences, other than Geography, at the 300 level or above		6

Track in Human and Cultural Dynamics

Academic Plan Code(s): GEOGBS_HCD

Code	Title	Hours
Human and Cultural Dynamics Foundation		
GEOG 320	Geopolitics	3
GEOG 328	Urban Geography	3
GEOG 331	Population Geography	3
GEOG 340	Environmental Conflict in the United States: Historical Foundations & Contemporary Problems - D1 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SBH (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 350	Introduction to Mapping and Geospatial Technologies	3
GEOG 360	Qualitative Methods for Undergraduates	3
GEOG 361	Sustainable Human Environments - WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
Human and Cultural Dynamics Specialization		
Select three of the following:		9
GEOG 308	Understanding China: People, Environment and Development	
GEOG 316	Geography of South Asia	
GEOG 324	Race and Place	
GEOG 500	Globalization Seminar	
GEOG 510	Urbanism in the Global South: Cities and Space	
GEOG 521	Medical Geography	
GEOG 524	Food and Race	
GEOG 525	Measuring Sustainability: Our Human Planet	
GEOG 540	Geography and Human-Environment Interactions	
ENVS 360	Global Environmental Change	
Minimum Total Hours		30

Code	Title	Hours
Supporting Courses in Human and Cultural Dynamics		
Electives in Social Sciences, other than Geography, at the 300 level or above		6

Track in Urban Analytics

Academic Plan Code(s): GEOGBS_URA

Code	Title	Hours
Urban Analytics Foundation		
GEOG 324	Race and Place	3
GEOG 327	Economic Geography	3
GEOG 328	Urban Geography	3
GEOG 510	Urbanism in the Global South: Cities and Space	3
GEOG 522	GIS and Public Health	3
GEOG 531	GIS & Urban Demographic Analysis	3
GEOG 559	Advanced Geographic Information Systems	3
Urban Analytics Specialization		
Select three of the following:		9
GEOG 320	Geopolitics	
GEOG 331	Population Geography	
GEOG 340	Environmental Conflict in the United States: Historical Foundations & Contemporary Problems - D1 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SBH (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
GEOG 355	Introduction to Remote Sensing	
GEOG 360	Qualitative Methods for Undergraduates	
GEOG 361	Sustainable Human Environments - WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	
GEOG 529	Geography of Urban Issues	
GEOG 530	Transportation Geography	
GEOG 535	GIS and Retail Site Analysis	
GEOG 545	Unoccupied Aerial Systems and Geospatial Applications	
GEOG 556	Advanced Remote Sensing	
GEOG 590	Special Topics	
Minimum Total Hours		30

Code	Title	Hours
Supporting Courses in Urban Analysis		
Electives in Social Sciences, other than Geography, at the 300 level or above		6

Accelerated BS/MS Applied Geography Soaring Scholars Program

Prior to applying to the Accelerated BS/MS Applied Geography Soaring Scholars Program, students should identify up to 9 credit hours at the 500-600 level to complete during their Senior year to count as dual credit towards their current BS and planned MS Applied Geography degree. Students should consult with their academic advisor and the program department's Director of Graduate Studies (<https://louisville.edu/geogeo/about/faculty/>) when identifying these dual credit hours. However, enrollment in some or all of the following required foundation courses - GEOG 600, GEOG 656 and GEOG 660 - is strongly encouraged for the dual credit. This will increase flexibility of elective course enrollment later in the MS program and staying on track to graduate with the MS degree in 2-3 semesters instead of the usual 4.

Flight Plan

Track in Environmental Sciences

Academic Plan Code(s): GEOGBS ENV

Year 1		
Fall		
GEN 101	Arts & Sciences First Year Experience	1
ENGL 101	Introduction to College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education: Cardinal Core Oral Communication		3
Foreign Language 1		3-4
ENVS 200	The Global Environment - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
Free Elective		3
Hours		16-17
Spring		
ENGL 102	Intermediate College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education: Cardinal Core Arts & Humanities		3
General Education: Cardinal Core Natural Science w lab		4
Foreign Language 2		3-4
GEOG 200	Human Geography in a Changing World - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
Hours		16-17

Year 2		
Fall		
GEOG 256	Introduction to Quantitative Methods in Geography and Geosciences - QR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 350	Introduction to Mapping and Geospatial Technologies	3
GEOG 370	Introduction to Field Methods in Geography	3
ENVS 365	Biogeography	3
Free Elective		3
Hours		15
Spring		
GEOG 356	Introduction to Spatial Statistics	3
GEOG 558	Introduction to Geographic Information Systems	3
GEOG 340	Environmental Conflict in the United States: Historical Foundations & Contemporary Problems - D1 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SBH (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ENVS 363	Climate Science	3
Free Elective		3
Hours		15

Year 3		
Fall		
GEOG 355	Introduction to Remote Sensing	3
ENVS 564	Hydrology	3
Social Science Elective (300 level or above)		3
General Education: Cardinal Core Arts and Humanities		3
Free Elective		3
Hours		15
Spring		
ENVS 360	Global Environmental Change	3
ENVS 301	Geology for Scientists and Engineers	3
Environmental Sciences Track Specialization Course		3
Environmental Sciences Track Specialization Course		3
Humanities or Natural Science Elective (300 level or above)		3
Hours		15

Year 4

Fall		
GEOG 300	Globalization and Diversity - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 441	Senior Thesis Proposal - WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
Environmental Sciences Track Specialization Course (500 level for accelerated program)		3
Humanities or Natural Science Elective (300 level or above; 500-600 level for accelerated program)		3
Free Elective (500-600 level for accelerated program)		3
Hours		15
Spring		
GEOG 442	Senior Thesis - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/), WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
Social Science Elective (300 level or above)		3
Free Elective (500-600 level for accelerated program)		3
Free Elective (500-600 level for accelerated program)		3
Free Elective (if needed, 500-600 level for accelerated program)		3
Hours		15
Minimum Total Hours		122-124

Track in Geospatial Technologies

Academic Plan Code(s): GEOGBS GST

Year 1		
Fall		
GEN 101	Arts & Sciences First Year Experience	1
ENGL 101	Introduction to College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education: Hist 101 or 102		3
Foreign Language 1		3-4
ENVS 200	The Global Environment - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
Free Elective		3
Hours		16-17
Spring		
ENGL 102	Intermediate College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education: Cardinal Core Arts & Humanities - AH		3
General Education: Cardinal Core Natural Science w lab		4
Foreign Language 2		3-4
GEOG 200	Human Geography in a Changing World - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
Hours		16-17

Year 2		
Fall		
GEOG 256	Introduction to Quantitative Methods in Geography and Geosciences - QR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 370	Introduction to Field Methods in Geography	3
GEOG 350	Introduction to Mapping and Geospatial Technologies	3
General Education: Cardinal Core Arts and Humanities		3

General Education: Cardinal Core Oral Communication - OC	3
Hours	15
Spring	
GEOG 356 Introduction to Spatial Statistics	3
GEOG 558 Introduction to Geographic Information Systems	3
GEOG 385 Introduction to Programming for GIS and Spatial Data Analysis	3
ENVS 363 Climate Science	3
Free Elective	3
Hours	15
Year 3	
Fall	
GEOG 355 Introduction to Remote Sensing	3
General Education: Cardinal Core D1	3
Humanities or Natural Science Elective (300 level or above)	3
Social Science Elective (300 level or above)	3
Free Elective	3
Hours	15
Spring	
GEOG 556 Advanced Remote Sensing	3
Geospatial Technologies Track Specialization Course	3
Geospatial Technologies Track Specialization Course	3
Geospatial Technologies Track Specialization Course	3
Humanities or Natural Science Elective (300 level or above)	3
Hours	15
Year 4	
Fall	
GEOG 300 Globalization and Diversity - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 441 Senior Thesis Proposal - WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 590 Special Topics (Special Topic Web Mapping)	3
Free Elective (500-600 level for accelerated program)	3
Free Elective (500-600 level for accelerated program)	3
Hours	15
Spring	
GEOG 442 Senior Thesis - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/), WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 545 Unoccupied Aerial Systems and Geospatial Applications	3
GEOG 559 Advanced Geographic Information Systems	3
Social Science Elective (300 level or above; 500-600 level for accelerated program)	3
Free Elective (if needed, 500-600 level for accelerated program)	3
Hours	15
Minimum Total Hours	122-124

Track in Human and Cultural Dynamics

Academic Plan Code(s): GEOGBS HCD

Year 1		
Fall		Hours
GEN 101 Arts & Sciences First Year Experience		1
ENGL 101 Introduction to College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)		3
General Education: Cardinal Core Arts & Humanities		3
Foreign Language 1		3-4

ENVS 200 The Global Environment - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)		3
Free Elective		3
Hours		16-17
Spring		
ENGL 102 Intermediate College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)		3
General Education: Cardinal Core Oral Communication		3
Foreign Language 2		3-4
GEOG 200 Human Geography in a Changing World - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)		3
Free Elective		3
Hours		15-16
Year 2		
Fall		
GEOG 256 Introduction to Quantitative Methods in Geography and Geosciences - QR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)		3
GEOG 300 Globalization and Diversity - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)		3
GEOG 350 Introduction to Mapping and Geospatial Technologies		3
Humanities/Natural Science Elective (300 level or above)		3
Free Elective		3
Hours		15
Spring		
GEOG 356 Introduction to Spatial Statistics		3
GEOG 558 Introduction to Geographic Information Systems		3
GEOG 320 Geopolitics		3
General Education: Cardinal Core Arts & Humanities US Diversity - AHD1		3
Free Elective		3
Hours		15
Year 3		
Fall		
GEOG 331 Population Geography		3
GEOG 360 Qualitative Methods for Undergraduates		3
Human & Cultural Dynamics Track Specialization Course		3
Social Science Elective (300 level or above)		3
General Education: Cardinal Core Natural Sciences with Lab - B		4
Hours		16
Spring		
GEOG 361 Sustainable Human Environments - WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)		3
Human & Cultural Dynamics Track Specialization Course		3
Human & Cultural Dynamics Track Specialization Course		3
GEOG 370 Introduction to Field Methods in Geography		3
Humanities/Natural Science Elective (300 level or above)		3
Hours		15
Year 4		
Fall		
GEOG 328 Urban Geography		3
GEOG 441 Senior Thesis Proposal - WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)		3
Social Science Elective (300 level or above; 500-600 level for accelerated program)		3
Free Elective (500-600 level for accelerated program)		3
Free Elective (500-600 level for accelerated program)		3
Hours		15

Spring

GEOG 340	Environmental Conflict in the United States: Historical Foundations & Contemporary Problems - D1 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SBH (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 442	Senior Thesis - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/), WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ENVS 363	Climate Science	3
Free Elective (500-600 level for accelerated program)		3
Free Elective (if needed, 500-600 level for accelerated program)		3
Hours		15
Minimum Total Hours		122-124

Track in Meteorology

Academic Plan Code(s): GEOGBS MET

Year 1

Fall		Hours
GEN 101	Arts & Sciences First Year Experience	1
ENGL 101	Introduction to College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 200	Human Geography in a Changing World - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
ENVS 220	Introduction to Weather and Climate - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
MATH 205	Calculus I - QR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	4
Free Elective		1
Hours		15

Spring

ENGL 102	Intermediate College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
MATH 206	Calculus II	4
ENVS 200	The Global Environment - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
PHYS 295	Introductory Laboratories I - SL (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	1
PHYS 298	Introductory Mechanics, Heat and Sound - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	4
Hours		15

Year 2

Fall		Hours
GEOG 256	Introduction to Quantitative Methods in Geography and Geosciences - QR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 558	Introduction to Geographic Information Systems	3
ENVS 305	Introduction to Weather Analysis	3
PHYS 299	Introductory Electricity, Magnetism and Light	4
General Education Cardinal Core (OC)		3
Hours		16

Spring

ENVS 363	Climate Science	3
ENVS 370	Thermodynamic Meteorology	3
GEOG 356	Introduction to Spatial Statistics	3
General Education: Cardinal Core Social & Behavioral Sciences Historical Perspective - SBH		3

General Education: Cardinal Core Arts & Humanities	3
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Hours 15**Year 3****Fall**

GEOG 355	Introduction to Remote Sensing	3
GEOG 370	Introduction to Field Methods in Geography	3
ENVS 366	Dynamic Meteorology	3
MATH 325	Introduction to Linear Algebra	3
Foreign Language Level 1		3-4

Hours 15-16**Spring**

ENVS 465	Mesoscale Meteorology	3
MATH 405	Differential Equations	3
Free Elective		3
Related Elective		3
Foreign Language Level II		3-4

Hours 15-16**Year 4****Fall**

GEOG 300	Globalization and Diversity - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
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GEOG 441	Senior Thesis Proposal - WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
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ENVS 452	Physical Meteorology	3
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General Education: Cardinal Core Arts & Humanities (AHD1)	3
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Free Elective (500-600 level for accelerated program)	3
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Hours 15**Spring**

GEOG 442	Senior Thesis - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/), WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
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ENVS 469	Synoptic Meteorology	3
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Hum/Natural Science Elective (300 level or above depending on if CSE 130 is used for related elective; 500-600 level for accelerated program)	3
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Free Elective (500-600 level for accelerated program)	3
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General Elective (depending on language chosen)	3
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Hours 15**Minimum Total Hours 121-123****Track in Urban Analytics**

Academic Plan Code(s): GEOGBS URA

Year 1

Fall		Hours
GEN 101	Arts & Sciences First Year Experience	1
ENGL 101	Introduction to College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
General Education (Hist 101 or 102)		3
Foreign Language 1		3-4
ENVS 200	The Global Environment - S (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
Free Elective		3
Hours		16-17

Spring

ENGL 102	Intermediate College Writing - WC (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
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General Education: Cardinal Core Arts & Humanities - AH	3
Foreign Language 2	3-4
GEOG 200 Human Geography in a Changing World - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
Free Elective	3
Hours	15-16
Year 2	
Fall	
GEOG 256 Introduction to Quantitative Methods in Geography and Geosciences - QR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 300 Globalization and Diversity - D2 (https://catalog.louisville.edu/undergraduate/general-education-requirements/), SB (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 370 Introduction to Field Methods in Geography	3
General Education: Cardinal Core Oral Communication - OC	3
Free Elective	3
Hours	15
Spring	
GEOG 356 Introduction to Spatial Statistics	3
GEOG 558 Introduction to Geographic Information Systems	3
GEOG 324 Race and Place	3
ENVS 363 Climate Science	3
General Education: Cardinal Core Arts & Humanities	3
Hours	15
Year 3	
Fall	
GEOG 327 Economic Geography	3
GEOG 328 Urban Geography	3
General Education: Cardinal Core Natural Sciences with Lab - B	4
Social Science Elective (300 level or above)	3
Humanities / Natural Sciences Elective (300 level or above)	3
Hours	16
Spring	
GEOG 559 Advanced Geographic Information Systems	3
GEOG 510 Urbanism in the Global South: Cities and Space	3
Urban Analytics Track Specialization Course	3
Humanities or Natural Science Elective (300 level or above)	3
General Education (D1)	3
Hours	15
Year 4	
Fall	
GEOG 441 Senior Thesis Proposal - WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 531 GIS & Urban Demographic Analysis	3
Urban Analytics Track Specialization Course	3
Urban Analytics Track Specialization Course	3
Free Elective (500-600 level for accelerated program)	3
Hours	15
Spring	
GEOG 442 Senior Thesis - CUE (https://catalog.louisville.edu/undergraduate/general-education-requirements/), WR (https://catalog.louisville.edu/undergraduate/general-education-requirements/)	3
GEOG 522 GIS and Public Health	3
Social Science Elective (300 level or above; 500-600 level for accelerated program)	3
Free Elective (500-600 level for accelerated program)	3

Free Elective (if needed, 500-600 level for accelerated program)	3
Hours	15
Minimum Total Hours	122-124

The Flight Plan outlined above is intended to demonstrate one possible path to completing the degree within four years. Course selection and placement within the program may vary depending on course offerings and schedule, elective preferences, and other factors (study abroad, internship availability, etc.). Please consult your advisor for additional information about building a flight plan that works for you.

Degree Audit Report

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan, and which requirements are still outstanding. Degree audits also take transfer credits and test credits into account. "What-if" reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. Should you have questions about either report, please consult with your academic advisor.

Flight Planner

The Flight Planner tool is available for you to create a personalized Flight Plan to graduation. Advisors have access to review your Flight Planner and can help you adjust it to ensure you remain on track to graduate in a timely manner.

To create these reports:

1. Log into your ULink account.
2. Click on the Academic Progress tile.
3. Select the appropriate report.
 - a. To run a Degree Audit report, click on "View my Degree Audit."
 - b. To create a What-if report, click on "What-if Advisement Report."
 - c. To run a Flight Planner report, click on "Use My Flight Planner."

Click here to run a Degree Audit report, create a What-if report, or run a Flight Planner report. (<https://ulink.louisville.edu>)