

GEOSCIENCES | BACHELOR OF SCIENCE IN GEOSCIENCES (GEOGRAPHY)

Program Summary

Code	Title	Hours
General Education		34
Major Courses		12-13
Geography Core		26-32
Directed Electives		9
Open Electives ¹		32-39
Total Hours		120

¹ Open electives are the credit hours required to reach a minimum of 120 total hours and 45 upper-level hours. The number listed assumes all courses are completed at FHSU as listed. This number may vary if students transfer courses, or have individual substitutions allowed. Students should speak with their advisor if either situation applies to determine if the number will vary, and to ensure they enroll in a minimum of 45 upper-level hours. Students entering within 1 year of high school graduation will take UNIV 101 Freshman Seminar and may apply that hour in the open elective category.

Program Requirements

General Education

All undergraduate degrees require completion of the Kansas Systemwide General Education (<https://catalog.fhsu.edu/general-education/>).

Courses identified with ^{GE} on this page may satisfy a general education requirement in addition to the identified degree requirement. Students who apply a degree requirement to satisfy a general education requirement will typically add an equal number of hours to the the university elective category. This flexibility may allow you to complete a minor or certificate within the 120 hour degree. Transfer students and students majoring in programs with approved exceptions (<https://www.fhsu.edu/general-education/documents/fhsu-gen-ed-transfer-exceptions-explainer1.pdf>) are especially encouraged to select these courses in completing General Education requirements to maximize the likelihood of completing the degree with 120 credit hours.

Code	Title	Hours
General Education		34-35

Code	Title	Hours
Major Core Courses		
GSCI 100	Exploring Earth ^{GE}	3
GSCI 240	Introduction to Geographic Information Systems (GIS)	3
GSCI 685	Writing in the Sciences	3
Select one course from the following:		3-4
BIOL 620 & 620L	Biostatistics and Biostatistics Lab	
GSCI 630	Geostatistics and Spatial Data Analysis	

MATH 250	Elements of Statistics ^{GE}	
Geography Core		
GSCI 101	Earth and Environmental Systems ^{GE}	3
GSCI 105	Cultural Geography ^{GE}	3
GSCI 110	World Geography ^{GE}	3
GSCI 290	Cartography: Theory and Applications	3
GSCI 321	United States Geography	3
GSCI 330	Remote Sensing Concepts	3
GSCI 360	Intermediate Geographic Information Systems	3
GSCI 651	Field Studies in Geography	1-6
GSCI 675	Seminar in Geosciences	1
GSCI 695	Internship in Geosciences	3
Upper Division Electives		
Select nine credit hours from Upper Division GSCI courses		9
Total Hours		47-53

Degree Requirements

Code	Title	Hours
All bachelor degrees require:		
GPA of 2.0 on FHSU courses & 2.0 on all coursework (Higher program requirements prevail over the 2.0 when set)		
A minimum of 30 hours earned from FHSU with a grade of D, C, B, or A		
Successful completion of an upper division Writing and Information Literacy course (Most majors contain a course designated)		
A minimum of 45 hours of recognized upper division credit		
A minimum of 120 hours of recognized college credit		

Degree Maps

Course	Title	Hours
First Year		
Fall		
ENG 102	English Composition II (SGE010 - English Discipline Area)	3
COMM 100	Fundamentals of Oral Communication (SGE020 - Communication Discipline Area)	3
GSCI 101 & GSCI 103	Earth and Environmental Systems and Earth and Environmental Systems Laboratory	4
UNIV 101	Freshman Seminar	1
SGE030 - Math Statistics Discipline Area		3
Hours		14
Spring		
ENG 102	English Composition II (SGE010 - English Discipline Area)	3
GSCI 100 & GSCI 102	Exploring Earth and Exploring Earth Laboratory	4
SGE070 - Institutionally Designated Area: Critical Thinking		3
SGE040 - Natural Physical Science Discipline Area		4
Hours		14
Second Year		
Fall		
GSCI 105	Cultural Geography	3
GSCI 240	Introduction to Geographic Information Systems (GIS)	3
SGE070 - Institutionally Designated Area: Personal and Professional Development		3
SGE050 - Social Behavioral Sciences Discipline Area		3

SGE060 - Arts Humanities Discipline Area	3
Hours	15
Spring	
GSCI 110 World Geography	3
GSCI 360 Intermediate Geographic Information Systems	3
GSCI 321 United States Geography or GSCI 600 or Kansas Geography	3
SGE050 - Social Behavioral Sciences Discipline Area	3
SGE060 - Arts Humanities Discipline Area	3
Hours	15
Third Year	
Fall	
GSCI 290 Cartography: Theory and Applications	3
GSCI 625 Advanced Geographic Information Systems or GSCI 674 or Aerial Photographs and Remote Sensing	3
GSCI 651 Field Studies in Geography or GSCI 380 or Field Trip: Ellis County or GSCI 381 or Field Trip: Lake Wilson or GSCI 382 or Field Trip: Rocks and Fossils of Castle Rock or GSCI 383 or Field Trip: Grand Canyon or GSCI 384 or Field Trip: Mesa Verde or GSCI 385 or Field Trip: Cave Geology	1
Open Electives	3
Open Electives	3
Open Electives	3
Hours	16
Spring	
GSCI 630 Geostatistics and Spatial Data Analysis or MATH 250 or Elements of Statistics	3
Concentration Course	3
Concentration Course	3
Open Electives	3
Open Electives	3
Open Electives	1
Hours	16
Fourth Year	
Fall	
GSCI 685 Writing in the Sciences	3
GSCI 695 Internship in Geosciences or GSCI 673 or Problems in Geosciences	3
Concentration Course	3
Concentration Course	3
Open Electives	3
Hours	15
Spring	
Open Electives	3
Open Electives	3
Open Electives	3
Open Electives	3
Open Electives	3
Hours	15
Total Hours	120

the overview tab for courses. To locate approved courses in General Education areas (Undergraduate Programs) see the general education section (<https://catalog.fhsu.edu/general-education/>) of the catalog.

The undergraduate course maps typically advise the most efficient route for students to complete the general education requirements. Courses that are required in the major may be listed as fulfilling relevant general education requirements. This will result in more open elective course hours in some maps than is listed on the degree overview page.

Academic Degree Maps are term-by-term sample course plans that specify milestones, courses, and special requirements that are necessary for facilitating on-time completion. Degree Maps are *examples* and are not prescriptive. Individualized choices such as concentration options, transfer credits, optional minors, advisory programs (certificates), etc. can alter the recommended coursework. Course offerings are subject to change. Students should consult with their academic advisors for additional guidance on course planning.

To determine courses to take in the directed choices (often listed as Program Elective Course) and directed elective course blocks see