

GEOSCIENCES | BACHELOR OF SCIENCE IN GEOSCIENCES (APPLIED GEOLOGY)

Degree Maps

Course	Title	Hours
First Year		
Fall		
ENG 101	English Composition I (SGE010 - English Discipline Area)	3
COMM 100	Fundamentals of Oral Communication (SGE020 - Communication Discipline Area)	3
GSCI 100 & GSCI 102	Exploring Earth and Exploring Earth Laboratory	4
UNIV 101	Freshman Seminar	1
MATH 110	College Algebra (SGE030 - Math Statistics Discipline Area)	3
Hours		14
Spring		
ENG 102	English Composition II (SGE010 - English Discipline Area)	3
GSCI 202 & 202L	Evolution of the Earth and Evolution of the Earth Laboratory	4
SGE070	Institutionally Designated Area: Critical Thinking	3
PHYS 111 & 111L	Physics I and Physics I Laboratory (SGE040 - Natural Physical Science Discipline Area)	5
GSCI 355 or GSCI 380 or GSCI 381 or GSCI 382 or GSCI 383 or GSCI 384 or GSCI 385	Field Trips in Geology or Field Trip: Ellis County or Field Trip: Lake Wilson or Field Trip: Rocks and Fossils of Castle Rock or Field Trip: Grand Canyon or Field Trip: Mesa Verde or Field Trip: Cave Geology	1
Hours		16
Second Year		
Fall		
GSCI 101 & GSCI 103	Earth and Environmental Systems and Earth and Environmental Systems Laboratory	4
CHEM 100	The Chemist's View of the World	3
SGE070	Institutionally Designated Area: Personal and Professional Development	3
SGE050	- Social Behavioral Sciences Discipline Area	3
SGE060	- Arts Humanities Discipline Area	3
Hours		16
Spring		
GSCI 240	Introduction to Geographic Information Systems (GIS)	3
GSCI 315	Rocks and Minerals	3
GSCI 372	or course to be approved	3
SGE050	- Social Behavioral Sciences Discipline Area	3
SGE060	- Arts Humanities Discipline Area	3
GSCI 355 or GSCI 380 or GSCI 381 or GSCI 382 or GSCI 383 or GSCI 384 or GSCI 385	Field Trips in Geology or Field Trip: Ellis County or Field Trip: Lake Wilson or Field Trip: Rocks and Fossils of Castle Rock or Field Trip: Grand Canyon or Field Trip: Mesa Verde or Field Trip: Cave Geology	1
Hours		16
Third Year		
Fall		
MATH 331	Calculus Methods	3
GSCI 290	Cartography: Theory and Applications	3

GSCI 340	Humans, Rocks, and the Environment	3
GSCI 360	Intermediate Geographic Information Systems	3
GSCI 355 or GSCI 380 or GSCI 381 or GSCI 382 or GSCI 383 or GSCI 384 or GSCI 385	Field Trips in Geology or Field Trip: Ellis County or Field Trip: Lake Wilson or Field Trip: Rocks and Fossils of Castle Rock or Field Trip: Grand Canyon or Field Trip: Mesa Verde or Field Trip: Cave Geology	1
Open Electives		3
Hours		16
Spring		
GSCI 630 or MATH 250	Geostatistics and Spatial Data Analysis or Elements of Statistics	3
GSCI 625	Advanced Geographic Information Systems	3
GSCI 674	Aerial Photographs and Remote Sensing	3
GSCI 355 or GSCI 380 or GSCI 381 or GSCI 382 or GSCI 383 or GSCI 384 or GSCI 385	Field Trips in Geology or Field Trip: Ellis County or Field Trip: Lake Wilson or Field Trip: Rocks and Fossils of Castle Rock or Field Trip: Grand Canyon or Field Trip: Mesa Verde or Field Trip: Cave Geology	1
Open Electives		3
Open Electives		1
Hours		14
Fourth Year		
Fall		
GSCI 685	Writing in the Sciences	3
Open Electives		3
Open Electives		3
Open Electives		3
Open Electives		3
Hours		15
Spring		
Open Electives		3
Open Electives		3
Open Electives		3
Open Electives		3
Open Electives		1
Hours		13
Total Hours		120

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 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.