GEOSCIENCES | BACHELOR OF SCIENCE IN GEOSCIENCES (GEOLOGY)

Degree Maps

	Hours	15
or MATH 234	or Analytic Geometry and Calculus I	
PHYS 211L MATH 331	Calculus Methods	3
& 111L or PHYS 211 and	or Engineering Physics I <i>and</i> Engineering Physics I Laboratory	
PHYS 111	Physics I	5
GSCI 452	Field Techniques	3
GSCI 450 & 450L	Dynamic Earth and Dynamic Earth Laboratory	4
Fall		
Third Year		
	Hours	15
SGE060 - Arts Humanities	s Discipline Area	3
SGE050 - Social Behavior	al Sciences Discipline Area	3
& 122L	and University Chemistry Laboratory II	,
CHEM 122	University Chemistry II	5
GSCI 320 & 320L	Rock Origins and Rock Origins Laboratory	4
Spring	D 10::	
	Hours	17
SGE060 - Arts Humanities	s Discipline Area	3
SGE050 - Social Behavioral Sciences Discipline Area		3
SGE070 - Institutionally Designated Area: Personal and Professional Development		3
& 310L	and Gem and Mineral Resources Laboratory	*
GSCI 310	Gem and Mineral Resources	4
GSCI 101 & GSCI 103	Earth and Environmental Systems and Earth and Environmental Systems Laboratory	4
Fall		
Second Year		
	Hours	15
SGE070 - Institutionally D	esignated Area: Critical Thinking	3
Q 120L	Natural Physical Science Discipline Area)	
CHEM 120 & 120L	University Chemistry I and University Chemistry Laboratory I (SGE040 -	5
& 202L	and Evolution of the Earth Laboratory	
GSCI 202	Evolution of the Earth	4
L110 102	Area)	3
Spring ENG 102	English Composition II (SGE010 - English Discipline	3
0	Hours	14
	or Pre-Calculus Mathematics	
or MATH 130	Area)	-
MATH 110	College Algebra (SGE030 - Math Statistics Discipline	3
& GSCI 102 UNIV 101	and Exploring Earth Laboratory Freshman Seminar	1
GSCI 100	Exploring Earth	4
COMM 100	Communication Discipline Area)	3
COMM 100	Area) Fundamentals of Oral Communication (SGE020 -	3
ENG 101	English Composition I (SGE010 - English Discipline	3
Fall		
First Year	Title	Hours
Course	Title	Hours

Spring		
GSCI 630 or MATH 250	Geostatistics and Spatial Data Analysis or Elements of Statistics	3
GSCI 240	Introduction to Geographic Information Systems (GIS)	3
GSCI 454	Applied Geology	3
GSCI 682 & 682L	Sedimentary Petrology and Sedimentary Petrology Laboratory	3
Directed Electives		2
	Hours	14
Fourth Year		
Fall		
GSCI 685	Writing in the Sciences	3
GSCI 360	Intermediate Geographic Information Systems	3
Open Electives		3
Open Electives		3
Open Electives		3
	Hours	15
Spring		
Open Electives		3
	Hours	15
	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.