Planning ahead?

Projections are subject to change	Grp	F23	S24	F24	S25	F25	S26
100 Leve	el (all v	vith la	b)				
GEOS 100 Weather & Climate	NA		Х				Χ
GEOS 101 Co-Evolution of Earth & Life	NA	Х			Х		
GEOS 102 An Unfinished Planet	NA				Х		
GEOS 104 Oceanography	NA						
GEOS 109 Geologic Hazards	NA		Х			Х	
GEOS 110 Oceans and Society	NA	Х				Х	
200 Level (all with	lab ex	cept T	utoria	Is (T))			
GEOS 201 Field Methods & Structural Geo	SE			Х		Х	
GEOS 212 Paleobiology	SL		Х			Х	
GEOS 214 Mastering GIS	NA	Х			Х	Х	
GEOS 215 Climate Changes	OC						Х
GEOS 227T Climate Data Analysis				Х			
GEOS 250T Climate, Tectonics, & Erosion						Х	
GEOS 255 Environmental Observation	OC			Х			
300 Level (all with labs)							
GEOS 301 Geomorphology	SL	Х				Х	
GEOS 302 Sedimentology	SL		Х				Х
GEOS 304 Minerology & Petrology					Х		Х
GEOS 30X Coastal Processes &				Х			
Geomorphology							
GEOS 309 Modern Climate		Х					
400 Level (all with labs)							
GEOS 405 Geochemistry	OC					Х	
GEOS 409 Volcanology	SE	Χ		Χ			
GEOS 410 The Cryosphere	OC				Х		
GEOS 411 Geobiology	SL						Χ

See https://catalog.williams.edu/geos for details

Williams Geosciences

Course Guide 2023-2024

Geosciences Major Planning Sheet

Geosciences Major Requirements* (at least nine graded** courses not including thesis)

One or two 100 level with lab		
At least two 200-level with lab		
At least two 300-level with lab		
At least one 400-level		
Any number of GEOS electives		

GEOS Distribution Requirements

At least one and *preferably* two courses need to be from each topic group

Oceans and Climate (OC)	
Sediments and Life (SL)	
Solid Earth (SE)	

Distribution Requirements (must be graded* and taken at Williams, WM, or WEPO)

Div I Two different prefixes. Two per division completed by end of 2 nd year			
Div II Two different prefixes. Two per division completed by end of 2 nd year			
EDI/DPE			
QFR By end of 3rd year		_	
WI One by end of 2nd year, both by end of 3 rd year			
PE Two different activities. Complete by end of 2 nd year. Must complete to study abroad.			

Name:
Graduation Year:

F 1 st year	S 1 st year	F 2 nd year	S 2 nd year	F 3 rd year	S 3 rd year	F 4 th year	S 4 th year

^{**}S20-S21 P/F classes can count toward the major.

Fall 2023 Courses

Courses with no prerequisites

GEOS 101 Co-Evolution of Earth & Life (Phoebe Cohen)

(NA) TR 9:55-11:10, Lab T or W 1:00-3:00

GEOS 110 Oceans & Society (Rónadh Cox)
(NA) TR 11:20-12:35, Lab T or R 1:00-3:00

Courses with prerequisites (POI = permission of instructor)

GEOS 214 Mastering GIS (Alex Apotsos)
(NA) TR 8:30-9:45, Lab T or R 1:00-4:00

Prereg: at least one course in Geosciences or Environmental Studies

GEOS 301 Geomorphology (José Constantine) (SL) MWF 10:00-10:50, Lab W 1:00-4:00

Prereg: At least one 100-level and one 200-level GEOS or ENVI course or

POI

GEOS 309 Modern Climate (Alice Bradley) (OC) TR 11:20-12:35, Lab TBA

Prereg: Any of GEOS 100, GEOS 103, ENVI 102, GEOS 215, or POI

GEOS 409 Volcanology (Mike Hudak) (SE) TR 9:55-11:10, Lab T 1:00-4:00

Prereg: One of the following: GEOS 102, GEOS 304, PHYS 131, or CHEM

151. or POI

NA = no grouping assignment

Course Groups

Oceans and Climate (OC): the science of the atmosphere, ocean and cryosphere, including dynamics of the climate system, analyzing past and future climate variability.

Sediments and Life (SL): the science of modern and ancient sediments, including surface processes such as erosion and preserved records of earth and life history such as fossils.

Solid Earth (SE): the science of the modern and ancient solid earth, including the formation of the planets, the origins and fates of minerals and rocks, and the formation of mountains.

Spring 2024 Courses

Courses with no prerequisites

GEOS 100 Introduction to Weather and Climate (Alice Bradley)

(NA) MWF 10:00-10:50, Lab M or R 12:30-2:30

GEOS 109 Geologic Hazards (Mike Hudak)
(NA) TR 9:55-11:10, Lab T or R 1:00-3:00

Courses with prerequisites (POI = permission of instructor)

GEOS 212 Paleobiology (Phoebe Cohen)
(SL) TR 9:55-11:10, Lab T or R 1:00-4:00

Prereg: any 100-level GEOS course or BIOL 102, 203 or 205

GEOS 302 Sedimentology (Rónadh Cox)
(SL) TR 11:20-12:35, Lab R 1:00-4:00

Prereq: At least one course in GEOS Group B (Solid Earth) AND one

course in GEOS Group C (Sediments and Life); or POI

Our incoming visitor will teach 200-level lecture-lab classes each semester, which will be either in the Sediments & Life or Oceans & Climate course areas. Exact courses TBA.

NA = no grouping assignment

GEOS majors go in many different directions, including education, public policy, journalism, environmental consulting, and scientific research. Consult with a Geoscience faculty member for advice on course choices in other departments and programs that will complement your Geosciences major.

Lauren Interess '98 Adventure Fellowship

Fellowships are available to majors and prospective majors. It provides \$2000+ for one or two students to pursue an earth-science adventure of their own design during WSP, spring break, or the summer. Come up with an idea and discuss it with a GEOS faculty member. Write a 1-2 page proposal with a budget and expected itinerary, and email it to the chair. We accept applications at any time! See department webpage for details and past projects.