

Thinking ahead to 2020–2021?

N.B. 2020-2021 projections are incomplete and subject to change

Courses offered in both 2019–2020 AND 2020–2021

GEOS 100 (S) Introduction to Weather and Climate

GEOS 101 (F) The Co-Evolution of Earth and Life

GEOS 102 (S) An Unfinished Planet

GEOS 104 Oceanography

GEOS 202 (S) Mineralogy

GEOS 203 (F) Field Methods and Structural Geology

GEOS 205 (F) Earth Resources

GEOS 210 (S/F) Oceanographic Processes (Williams-Mystic only)

GEOS 214 Mastering GIS

GEOS 217 (S) Planets and Moons

GEOS 255 (F) Environmental Observation

GEOS 302 (S) Sedimentology

GEOS 303 (F) Igneous and Metamorphic Petrology

GEOS 401T (F) Global Tectonics and the Rise of Mountains

GEOS 493/494 (F/S) Senior Thesis: Geosciences

GEOS 497/498 (F/S) Independent Study: Geosciences

Offered 2019–2020 but probably NOT in 2020–2021

GEOS 212 (S) Paleobiology

GEOS 250T (S) Tectonic Geomorphology and Landscape Development

GEOS 309 (F) Modern Climate

GEOS 314 (S) Analytical Historical Geology

GEOS 404 (S) Coastal Processes and Geomorphology

Not offered 2019–2020 but probably WILL BE offered 2020–2021

GEOS 103 (F) Global Warming and Environmental Change

GEOS 215 (F) Climate Changes

GEOS 301 (f) Geomorphology

Williams Geosciences

Course Guide 2019-2020

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 with lab			
Any number of GEOS electives			

Distribution Requirements (must be graded and taken at Williams, W-M or WEPO)

Div I*			
Div II*			
DPE			
QFR**			
WI***			
PE****			

* Two different subjects. Two per Division completed by end of 2nd year.

** By end of 3rd year.

*** One by end of 2nd year, both by end of 3rd year

**** Two different activities. Completed by end of 2nd year. Must complete to study abroad.

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.

Name: _____	F 1st y	S 1st y	F 2nd y	S 2nd y	F 3rd y	S 3rd y	F 4th y	S 4th y

Graduation Year: _____								

Fall 2019 Courses

Courses with no prerequisites
GEOS 101 The Co-Evolution of Earth and Life (Cohen)
MWF 10:00-10:50, Lab M or T 1-3

GEOS 104 Oceanography (Cook)
MWF 9:00-9:50, Lab W or R 1-3

GEOS 106 Being Human in STEM (Kharel, Cohen)*
W 1:10-3:50

GEOS 210 Oceanographic Processes (Gilbert)
At Williams-Mystic

Courses with prerequisites
(POI = permission of instructor)
GEOS 203 Field Methods and Structural Geology (Karabinos)
MW 11:00-12:15, Lab M 1-4
Prereq: any 100-level GEOS course or POI

GEOS 205 Earth Resources (Cox)
T/R 11:20-12:35, Lab R 1-4
any 100-level GEOS course or POI

GEOS 214 Mastering GIS (Apotsos)
MW 11:00-12:15, Lab MW 1-4
Prereq: any 100-level GEOS or BIOL 102, 203, or 205

GEOS 255 Environmental Observation (Bradley)
MWF 10:00-10:50, Lab R 1-4
Prereq: any GEOS or ENVI course

GEOS 303 Igneous and Metamorphic Petrology (Wobus)
MWF 8:30-9:45 am, Lab W 1-4
Prereq: GEOS 202 or POI

GEOS 309 Modern Climate (Bradley)
T/R 9:55-11:10, Lab T 1-4
Prereq: Geos 100, 103, 215, ENVI 102, or POI

GEOS 401T Global Tectonics and the Rise of Mountains (Karabinos)
TR 11-20-12:35, Lab R 1-4
Prereq: GEOS 301 or 303 or POI

*Does not count toward the Geos Major

Spring 2020 Courses

Courses with no prerequisites
GEOS 100 Introduction to Weather and Climate (Bradley)
MWF 9-9:50, Lab M or T 1-3

GEOS 102 An Unfinished Planet (Wobus)
MWF 10-10:50, Lab W or R 1-3

GEOS 210 Oceanographic Processes (Gilbert)
At Williams-Mystic

Courses with prerequisites
(POI = permission of instructor)
GEOS 202 Mineralogy (Wobus)
TR 8:30-9:45, Lab T 1-4
Prereq: Any 100-level GEOS course or POI

GEOS 212 Paleobiology (Cohen)
TR 9:55-11:10, Lab W 1-4
Prereq: any 100-level GEOS or BIOL 102 or POI

GEOS 217 Planets and Moons (Cox)
MWF 10-10:50, Lab W 1-4
Prereq: Any least one GEOS course or POI

GEOS 234 Intro to Materials Science (Jensen)*
MR 1:10-2:35

GEOS 250T Tectonic Geomorphology and Landscape Development (Karabinos)
Prereq: at least one of GEOS 101, 102, 201, 202, 301, 302, 303, or POI

GEOS 302 Sedimentology (Cox)
TR 11:20-12:35, Lab R 1-4
Prereq: at least one course search in the Solid Earth group or Sediments and Life group or POI

GEOS 314 Analytical Historical Geology (Cohen)
MW 11:00-12:15, Lab M 1-4
Prereq: at least one of: GEOS 203, 212, 302, 324, 401 or POI

GEOS 404 Coastal Processes and Geomorphology (Apotsos)
MW 8:30-9:45, Lab F 8:30-9:45
Prerequisite: GEOS 104 or 210 or POI

*Does not count toward the Geos Major

Course Groups

Climate and Oceans: *the science of the atmosphere, ocean and cryosphere, including dynamics of the climate system, analyzing past and future climate variability.* GEOS 100, 104, 210, 215, 255, 309, 324

Sediments and Life: *the science of modern and ancient sediments, including surface processes such as erosion, and preserved records of earth and life history such as fossils.* GEOS 101, 103, 201, 212, 302, 312T, 314

Solid Earth: *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.* GEOS 102, 202, 203, 205, 217, 220T, 250T, 303

Lauren Interest '98 Adventure Fellowship

One fellowship per year is 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 any 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 the department webpage for details and past projects.