



NEW/CHANGE PROGRAM REQUEST Undergraduate Programs

UUPC Approval 11-8-21
 UFS Approval _____
 Banner Posted _____
 Catalog _____

**FLORIDA
ATLANTIC
UNIVERSITY**

Department Geosciences
 College Science

Program Name

BS Geosciences: Geology Focus

New Program

Change Program

Effective Date
(TERM & YEAR)

Spring 2022

Please explain the requested change(s) and offer rationale below or on an attachment

We request a minor change of the requirement, adding PHY 2044 (3-Cr) as an alternative of PHY 2049 (4-Cr). PHY 2044 is equivalent to PHY 2049 for students to pursue a Bachelor of Science with Major in Geosciences: Geology Focus.

Faculty Contact/Email/Phone

James Gammack-Clark/jgammack@fau.edu/70314

Consult and list departments that may be affected by the change(s) and attach documentation

Approved by

Department Chair 

College Curriculum Chair 

College Dean 

UUPC Chair Dan Meeroff

Undergraduate Studies Dean Edward Pratt

UFS President _____

Provost _____

Date

10/19/2021

10-25-21

10-27-21

11-8-21

11-8-21

Email this form and attachments to mjenning@fau.edu one week before the UUPC meeting so that materials may be viewed on the UUPC website prior to the meeting.

Bachelor of Science with Major in Geosciences

(Minimum of 120 credits required)

The Geosciences core course below (11 credits) are required of all students for the B.S. in Geosciences. Students then choose one of three focuses: Climate Change, Geography or Geology.

Prerequisite Coursework for Transfer Students

Students transferring to Florida Atlantic University must complete both lower-division requirements (including the requirements of the Intellectual Foundations Program) and requirements for the college and major. Lower-division requirements may be completed through the A.A. degree from any Florida public college, university or community college or through equivalent coursework at another regionally accredited institution. Before transferring and to ensure timely progress toward the baccalaureate degree, students must also complete the prerequisite courses for their major as outlined in the [Transition Guides](#).

All courses not approved by the Florida Statewide Course Numbering System that will be used to satisfy requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

Geosciences Core Courses (required of all students)		
Introductory Statistics	STA 2023	3
General Chemistry 1 and Lab	CHM 2045, 2045L	4
Introduction to Mapping and GIS	GIS 3015C	3
Geosciences Honors Colloquium	GEO 4920	1
Core Total		11

Bachelor of Science with Major in Geosciences: Geology Focus

In addition to the Geosciences core courses noted above (11 credits), students selecting the Geology Focus are required to complete a Science core (~~46-15~~ - 16 credits), the Geology Focus core (38 credits), and Geosciences electives (9 credits) as noted below. Total credits for the B.S. in Geosciences with a Geology Focus are ~~74-73~~ - 74 credits.

Science Core Courses		
General Physics 1	PHY 2048	4
General Physics 2	PHY 2049	4 OR
Physics for Engineers 2	PHY 2044	3
Calculus with Analytic Geometry 1	MAC 2311	4
Calculus with Analytic Geometry 2	MAC 2312	4
Science Core Total		46 15 - 16

Geology Focus Core Course		
Physical Geology/Evolution of the Earth	GLY 2010C	4
History of the Earth and Life	GLY 2100	3
Mineralogy and Crystal Chemistry	GLY 4200C	4
Petrology of Igneous and Metamorphic Rocks	GLY 4310C	4
Structural Geology	GLY 4400C	4
Solid Earth Geophysics	GLY 4451	3
Stratigraphy and Sedimentation	GLY 4500C	4

Geology Field Methods	GLY 4750C	3
Field Camp	GLY 4790	6
Hydrogeology	GLY 4822	3
Core Total		38

Geosciences Electives (select 9 credits from the list below, 6 of which must be at the 4000 level)		
Geology of Florida	GLY 3155C	3
Paleontology	GLY 3603C	3
Coastal and Marine Science	GLY 3730	3
Remote Sensing of the Environment	GIS 4035C	3
Principles of GIS	GIS 4043C	3
Environmental Geochemistry	GLY 4241	3
Water Resources	GEO 4280C	3
Geomorphology	GLY 4700C	3
Engineering Geology	GLY 4830	3
Introduction to Hydrogeology Modeling and Aquifer Testing	GLY 4832C	3
Geosciences Electives Total		9