
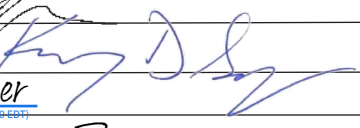
 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs		UUPC Approval <u>4/21/2025</u> UFS Approval _____ Banner _____ Catalog _____
	Department <u>GEOSCIENCES</u> College <u>SCIENCE</u>		
Program Name Bachelor of Arts in Geosciences		<input type="checkbox"/> New Program* <input checked="" type="checkbox"/> Change Program*	Effective Date (TERM & YEAR) Spring 2026
<p>Please explain the requested change(s) and offer rationale below or on an attachment.</p> <p>Geography Concentration: Add GLY 4324 Physical Volcanology as an elective (Environmental Systems)</p> <p>Geology Concentration: Add GLY 4324 Physical Volcanology as a Geoscience elective</p> <p>The amendments listed above will enhance the Bachelor of Arts in Geosciences, by providing students with additional flexibility in the degree.</p>			
<p><small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small></p>			
Faculty Contact/Email/Phone James Gammack-Clark, jgammack@fau.edu, 561-297-0314		Consult and list departments that may be affected by the change(s) and attach documentation	
Approved by		Date	
Department Chair 		<u>4/1/25</u>	
College Curriculum Chair 		<u>4/10/25</u>	
College Dean <u>Evonne Rezler</u> <small>Evonne Rezler (Apr 10, 2025 1:30 PM EDT)</small>		<u>04/10/25</u>	
UUPC Chair <u>Korey Sorge</u>		<u>4/21/2025</u>	
Undergraduate Studies Dean <u>Dan Meeroff</u>		<u>4/21/2025</u>	
UFS President _____		_____	
Provost _____		_____	

Email this form and attachments to mjenning@fau.edu seven business days before the UUPC meeting.

GEOSCIENCES

BACHELOR OF ARTS (B.A.)

Geography Concentration

Geology Concentration

(Minimum of 120 credits required)

The Geosciences core courses below (10 credits) are required of all students for the B.A. in Geosciences. Students then choose between a concentration in either Geography or Geology. The Geography concentration is available in person or fully online. The Geology concentration is available in person only.

Prerequisite Coursework for Transfer Students

Students transferring to Florida Atlantic University must complete both lower-division requirements (including the requirements of the General Education 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)

Weather and Climate	MET 2010	3
Introductory Statistics	STA 2023	3
Introduction to Mapping and GIS	GIS 3015C	3
Geosciences Honors Colloquium	GEO 4920	1

Core Total**10****Geography Concentration**

In addition to the Geosciences core courses noted above, students selecting the Geography Concentration are required to complete the Geography Concentration core courses (12 credits) noted below. Students then select 33 credits from the three areas of emphasis (Environmental Systems, Human Systems and GIScience). A minimum of 6 credits must be chosen from each area. Students must then complete 15 Geography elective credits taken from any of the three areas of emphasis. While students may substitute these electives with GEO 4905/4915 DIS/DIR, such substitutions are limited to 6 credits unless approved by a Geosciences Department advisor. The B.A. in Geosciences with a Geography Concentration requires a total of 55 credits.

Geography Concentration Core Courses

World Geography	GEA 2000	3
Introduction to Physical Geography	GEO 2200C	3
Quantitative Methods	GEO 4022	3
RI: Human-Environmental Interactions in South Florida	GEA 4275	3
Core Total		12

Areas of Emphasis

Choose 33-credits from the emphasis areas below with a minimum of 6 credits from each.

Environmental Systems

Introduction to Coastal Freshwater Resources	EVR 4453	3
Environmental Issues in Atmospheric and Earth Science	ESC 3704	3
Coastal and Marine Science	GLY 3730	3
Water Resources	GEO 4280C	3
Biogeography	GEO 4300	3
Physical Volcanology	GLY 4324	3
Geomorphology	GLY 4700C	3

Hydrogeology	GLY 4822	3
Atmospheric Hazards	MET 3052	3
Tropical Climatology	MET 3112	3
Climate Data Applications	MET 4142	3
<i>Human Systems</i>		
Climate Change: Myths, Realities and Solutions	EVR 3114	3
Hazards, Climate and People	EVR 4112	3
Culture and Environment: Latin America and the Caribbean	GEA 4405	3
American Cultural Landscape	GEO 4422	3
Tourism and Commercial Recreation	GEO 4542	3
Urban Geography	GEO 4602	3
Transportation and Spatial Organization	GEO 4700	3
<i>GIScience</i>		
Photogrammetry and Aerial Photograph Interpretation	GIS 4021C	3
Remote Sensing of the Environment	GIS 4035C	3
Digital Image Analysis	GIS 4037C	3
Principles of GIS	GIS 4043C	3
Applications in GIS	GIS 4048C	3
Web GIS	GIS 4054C	3
Programming in GIS	GIS 4102C	3
Geospatial Databases	GIS 4118	3
Geovisualization and GIS	GIS 4138C	3
Mobile GIS and Drone Technology	GIS 4140C	3
Spatial Data Analysis	GIS 4115C	3
Areas of Emphasis Total		33

Geology Concentration

In addition to the Geosciences core courses noted above (10 credits), students selecting the

Geology Concentration are required to complete a Science core (19 credits), the Geology Concentration core (10 credits), and Geosciences electives (18-22 credits) as noted below. The stipulated limit of 3 credits of GLY 4905/4915 DIS/DIR may be waived with the approval of a Geosciences Department advisor. The B.A. in Geosciences with a Geology Concentration requires a total of 57-61 credits.

Science Core Courses

Biological Principles and Lab	BSC 1010/1010L	4 or
Biodiversity and Lab	BSC 1011/1011L	4
College Algebra	MAC 1105	3
Introduction to Astronomy	AST 2002	3
General Chemistry 1 and Lab	CHM 2045, 2045L	4
General or College Physics and Lab	PHY 2048 or PHY 2053 and 2048L	5
Science Core Total		19

Geology Concentration Core Courses

Physical Geology/Evolution of the Earth	GLY 2010C	4
History of the Earth and Life	GLY 2100	3
Geology Field Methods	GLY 4750C	3
Core Total		10

Geosciences Electives

Choose 18 - 22 credits from the list below.

Paleontology	GLY 3603C	3
Environmental Issues in Atmospheric and Earth Science	ESC 3704	3
Introduction to Coastal Freshwater Resources	EVR 4453	3

Coastal and Marine Science	GLY 3730	3
Geology of Florida	GLY 4155C	4
Environmental Geochemistry	GLY 4241	3
Water Resources	GEO 4280C	3
Mineralogy and Petrology	GLY 4310C	4
Physical Volcanology	GLY 4324	3
Ancient Carbonate Platforms	GLY 4351C	3
Structural Geology	GLY 4400C	4
Stratigraphy and Sedimentation	GLY 4500C	4
Geomorphology	GLY 4700C	3
Hydrogeology	GLY 4822	3
Directed Independent Study OR	GLY 4905	3
Directed Independent Research in Geosciences	GLY 4915	3
Geosciences Electives Total		18-22






Program Change BA Geosciences 2025

Final Audit Report

2025-04-10

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"Program Change BA Geosciences 2025" History

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