



**FLORIDA  
ATLANTIC  
UNIVERSITY**

## COURSE CHANGE REQUEST Undergraduate Programs

**Department** Geosciences  
**College** Charles E. Schmidt College of Science

UUPC Approval 2/26/24  
UFS Approval \_\_\_\_\_  
SCNS Submittal \_\_\_\_\_  
Confirmed \_\_\_\_\_  
Banner Posted \_\_\_\_\_  
Catalog \_\_\_\_\_

**Current Course Prefix and Number** GLY3155C

**Current Course Title**  
Geology of Florida

*Syllabus must be attached for ANY changes to current course details. See [Template](#). Please consult and list departments that may be affected by the changes; attach documentation.*

**Change title to:**  
N/A

**Change description to:**  
N/A

**Change prefix**

From: N/A To: N/A

**Change course number**

From: 3155C To: 4155C

**Change credits\***

From: 3 To: 4

**Change grading**

From: N/A To: N/A

**Change WAC/Gordon Rule status\*\***

Add  Remove

**Change General Education Requirements\*\*\***

Add  Remove

\*See [Definition of a Credit Hour](#).

\*\*WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See [WAC Guidelines](#).

\*\*\*GE criteria must be indicated in syllabus and approval attached to this form. See [Intellectual Foundations Guidelines](#).

**Change prerequisites/minimum grades to:**  
N/A

**Change corequisites to:**  
N/A

**Change registration controls to:**  
N/A

Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).

**Effective Term/Year for Changes:** Summer 2024

**Terminate course? Effective Term/Year for Termination:** N/A

**Faculty Contact/Email/Phone**

**Approved by**

Department Chair \_\_\_\_\_

College Curriculum Chair \_\_\_\_\_

College Dean \_\_\_\_\_

UUPC Chair \_\_\_\_\_

Undergraduate Studies Dean \_\_\_\_\_

UFS President \_\_\_\_\_

Provost \_\_\_\_\_

**Date**

1/31/24

2/15/24

2/16/24

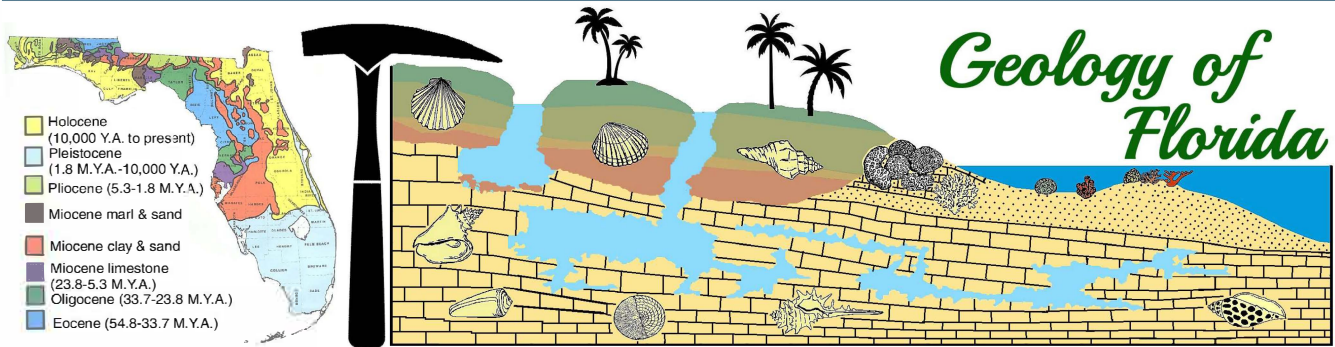
2/26/24

2/26/24

Email this form and syllabus to [mjenning@fau.edu](mailto:mjenning@fau.edu) seven business days before the UUPC meeting.



DEPARTMENT OF GEOSCIENCES  
CHARLES E. SCHMIDT COLLEGE OF SCIENCE



**GLY 4155C**

**Summer Semester, 2024**

## **Geology of Florida**

**Prerequisites:** GLY 2010 Evolution of the Earth or equivalent

### ***Syllabus & Schedule***

**LECTURES and LABS:** Lecture: *Wednesday, SE 417*, Lab –*SE 435, 2:00 - 4:50 pm*

**FIELD TRIPS:** *Wednesdays, weekends – time varies*

**CREDIT:** 4 credits

**INSTRUCTOR:** Dr. Anton Oleinik  
Office: SE 464  
(561) 297-3297  
E-mail: [aoleinik@fau.edu](mailto:aoleinik@fau.edu)

#### **OFFICE HOURS:**

Tuesday and Thursday 2:00 – 5:00 pm  
By appointment, open door policy, Room 464

**GRADUATE TEACHING ASSISTANT:** TBA

**TEXTBOOK:** Not required, literature for study and discussion is provided on Canvas.

#### **COURSE DESCRIPTION**

General review of the geological evolution of Florida from the Paleozoic to the recent. Emphasis is given to the local geomorphology and stratigraphy, and to evolution, extinction, and systematics of the major fossils. Also discussed are theories on the origin of the Everglades, fossil and living coral reef tracts, and the regional hydrogeology. Lecture, laboratory and field studies.

## **COURSE SUMMARY**

South Florida is the only region of tropical and subtropical carbonate deposition within the continental United States. It contains a variety of carbonate deposits and a variety of rock formations. The course is dedicated to study of carbonate deposits in the process of formation, examination of different sediment types and factors that control their distribution, and interpreting depositional environments. Recent geologic past of South Florida is a key to understanding of impacts of changing climate on the Florida Peninsula. Using hands-on labs and field assignment, the course will address key geologic features and geologic history of Florida platform.

## **STUDENT LEARNING OUTCOMES**

- Students will learn about Florida recent and ancient sediments by completing hands-on lab assignment
- Students will collect and interpret field data in several geologic locations in Florida
- Students will effectively communicate and summarize their findings in the papers, reports, and completed field assignments
- Students will apply their field observation towards understanding of the depositional environments, geologic history, and environmental issues of the state of Florida

## **METHOD OF INSTRUCTION**

This is a face-to-face instruction course. The best way to learn the types of rocks, fossils, and interpret depositional environments and geological history of Florida are hands-on field observations. The type of data that we will be collecting for field projects cannot be collected “remotely” or “digitally”. The lecture part of the course, containing introduction to Florida depositional environments, stratigraphy, and geologic features, will be accompanied by PowerPoint presentations. Field exercises will be conducted during day long and weekend field trips in Florida and require the investigation of various field sites, following instructions given on site by the instructor. Additional fees to pay for gasoline and camping expenses will be required. Reading materials and auxiliary readings are provided on Canvas. A file containing detailed explanation of field procedures and lab techniques is entitled **FIELD MANUAL** and can be found in PDF format on Canvas. **Guide to writing Field Site papers (Field reports) is available on Canvas.**

## **ATTENDANCE**

Students are expected to be present at all class meetings and field trips. Absence from class will have a negative impact on a student’s grade. The main instruction method will be supervising a hands-on geologic activities in the field. ***Attendance and participation in all field exercises are mandatory. These cannot be completed on line. There will be no substitutions for any field trips missed for any reason.***

## **POLICY AND MAKE-UP TESTS, LATE WORK, AND INCOMPLETES.**

Missing field trips cannot be made up or have other work accepted as a replacement. If a student need an extension of a lab exercise or field report, not exceeding the end of the semester deadline, it has to be discussed and decided on a case-to-caser basis with the instructor. Lecture Exam can be rescheduled if a student has a university-approved evidence of absence and the date of the exam will not exceed the end of the semester deadline.

**Incomplete Grade Policy.** The University policy states that a student who is passing a course but has not completed all work due to exceptional circumstances, may, with consent of the instructor,

temporarily receive a grade of incomplete (“I”). The assignment of the “I” grade is at the discretion of the instructor but is allowed only if the student is passing the course.

## FIELD TRIPS

Day trips to Miami, Okeechobee, Islamorada, and Peace River will be held either on Wednesdays or Saturdays. Weekend trip to Florida Caverns will be held on one of the weekends. The exact schedule of Field Trips will be discussed in class. Field trips times and dates may be modified to better fit the course schedule. Field trips will utilize Department 12-passenger van. Camping equipment

## GRADING AND EVALUATION

Evaluation will be based on results of the One Lecture Exam, 2 Lab Exercises and 6 Field-based exercises and reports listed in the table below.

| Assignment   | %of final grade |
|--|-----------------|
| Carbonate Sediments Lab Exercise                         | 10              |
| Key Largo Limestone field exercise and report            | 10              |
| Well Log cuttings Lab Exercise                           | 15              |
| Rocks, fossils and Paleocurrent project, Miami Limestone | 10              |
| Bear Cut Field exercise and report                       | 10              |
| Ft. Thompson Fm. Fossils exercise and report             | 15              |
| Peace River Formation exercise and report                | 10              |
| Florida Karst Field Report                               | 10              |
| Lecture Exam   | 10              |
| <b>Total count</b>                                       | <b>100</b>      |

## Grading Scale

| Percent  | Grade | Percent | Grade |
|----------|-------|---------|-------|
| 94-100 % | A     | 73-76 % | C     |
| 90-93 %  | A-    | 70-72 % | C-    |
| 87-89 %  | B+    | 67-69 % | D+    |
| 83-86 %  | B     | 63-66 % | D     |
| 80-82 %  | B-    | 60-62 % | D-    |
| 77-79 %  | C+    | < 60 %  | F     |

Attainment of the lowest grade average in any category will assure that your grade is not lower than the indicated grade.

**Field Trips and Fees:** Additional fees will be required to cover costs associated with travel, departmental equipment and overnight camping. The estimated course fee should not exceed **\$150** per person.

## Geosciences Computer Lab Policies:

Before using the Geoscience Computer Laboratories, all students are responsible for reading the attached computer policies. In particular, printing is now limited, and you will be unable to print if you reach your limit. Policy is at

[http://www.science.fau.edu/geo/Resources/CourseWebPages/Spring2005/GLY4400/cop\\_policy%20sp05.htm](http://www.science.fau.edu/geo/Resources/CourseWebPages/Spring2005/GLY4400/cop_policy%20sp05.htm)

# ***Tentative Course Schedule***

***(Exact dates are to be announced. Field trips can be run on Saturdays or Sundays, if it is a preference.)***

## **January**

**Lectures:** Geology of the Florida Platform, principles of Carbonate Geology; Shallow water carbonate environments, controls on carbonate deposition, classifications of carbonate rocks.

**Lab assignment** – Carbonate sediment composition

**Field Trip** - Windley Key Quarry, Tavernier Key, Monroe County

## **February**

**Lectures:** Florida Stratigraphy, paleogeography, fossils, and mineral deposits. Florida Hydrogeology, Karst, caves and sinkholes.

**Lab assignment** – Core cuttings exercise

**Field Trips:** - Greynolds Park, Miami, Dade County. Rocks, fossils and Paleocurrent analysis.

- Peace River Formation stratigraphy, Zolfo Springs and Gardener, DeSoto County.

**Deadlines** – Carbonate Sediment Composition and Key Largo Limestone (Windley Key).

**Deadline** – **February 29, 11:59 pm**

## **March**

**March 1 – 10 – Spring Break, no classes**

**Field Trips** - Okeechobee – Ft Thompson Formation fossils exercise

- Florida Caverns and Falling Waters State Parks

**Deadlines** - Greynolds Park and paleocurrent analysis Miami limestone, Peace River stratigraphy report, Core Cutting exercise report.

**Deadline** – **March 31, 11:59 pm**

## **April**

**Field Trip** – Bear Cut, Miami, Dade County. Low tide

**Deadlines** – Ft. Thompson Formation exercise, Florida karst report, Bear Cut field trip report.

**Deadline** – **April 26, 11:59 pm**

## **GENERAL CLASS POLICIES**

### ***Code of Academic Integrity***

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

### ***Cell phones***

The use of cell phones and electronic devices is prohibited in the classroom. All cell phones should be turned off *before* the start of class (not set on “vibrate”, but turned OFF). If you have a medical or family emergency and need to receive a call during class, you should inform your instructor *before* class and have your phone in SILENT mode. Students without authorization who use cell phones and electronic devices in class may be dismissed from class and counted as being absent for the day. In order that the University may notify students

of a campus-wide emergency, either the instructor's, or a designated student's cell phone will be set to vibrate during class. Cell phones can be used if a matter is urgent, in the field

### **Classroom etiquette**

In order to enhance and maintain a productive atmosphere for education, personal communication devices such as pagers, beepers, and cellular phones are to be disabled in class sessions. (University policy which applies to all classes - see FAU Academic policies

(<http://www.fau.edu/academic/registrar/catalog/academics.php>.) Any use of these devices during a quiz or examination will be considered to be cheating, and will be penalized accordingly. Communication devices (cell phones, pages, laptop computers, etc.) must be turned off and **out of reach** during all lectures and examinations.

### **Lecture Recording**

The following statement generally applies to the new law enacted by the Florida Legislature regarding lecture recording by students:

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

### **Attendance Policy**

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance.

Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence

### **Disability Policy**

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at

[www.fau.edu/sas/](http://www.fau.edu/sas/)

### **COUNSELING AND PSYCHOLOGICAL SERVICES (CAPS) CENTER**

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

### **Time Commitment per credit hour**

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

### **Grade Appeal Process**

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[University Regulation 4.002](#) of the University Regulations contains information on the grade appeals process

### **Religious accommodations Policy Statement**

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at [www.fau.edu/regulations](http://www.fau.edu/regulations).

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.