

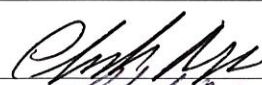


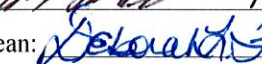



FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—COURSE CHANGE REQUEST¹

UGPC APPROVAL _____
 UFS APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG _____

DEPARTMENT: GEOSCIENCES	COLLEGE: SCIENCE
COURSE PREFIX AND NUMBER: GLY6737	CURRENT COURSE TITLE: COASTAL ENVIRONMENTS
CHANGE(S) ARE TO BE EFFECTIVE (LIST TERM): Fall 2015	_____ TERMINATE COURSE (LIST FINAL ACTIVE TERM):
CHANGE TITLE TO: CHANGE PREFIX FROM: TO: CHANGE COURSE NO. FROM: TO: CHANGE CREDITS ² FROM: TO: CHANGE GRADING FROM: TO: CHANGE DESCRIPTION TO: Dynamics of depositional systems in coastal environments. Emphasis on variability of sediments, geomorphology, and littoral processes associated with coastal dunes, lagoons, estuaries, beaches, and nearshore environments.	CHANGE PREREQUISITES/MINIMUM GRADES TO*: CHANGE COREQUISITES TO*: CHANGE REGISTRATION CONTROLS TO: *Please list both existing and new pre/corequisites, specify AND or OR, and include minimum passing grade.
Attach syllabus for ANY changes to current course information.	
Should the requested change(s) cause this course to overlap any other FAU courses, please list them here.	Please consult and list departments that might be affected by the change(s) and attach comments. ³

Faculty contact, email and complete phone number: Tiffany Roberts Briggs, briggst@fau.edu, 561-297-4669

Approved by: Department Chair: <u></u> College Curriculum Chair: <u></u> College Dean: <u></u> UGPC Chair: <u></u> <u></u> Graduate College Dean: <u></u> <u></u> UFS President: _____ Provost: _____	Date: <u>2/15/15</u> <u>2/15/15</u> <u>2/15/15</u> <u>2/18/15</u> 2/25/15 <u>2/26/15</u> _____ _____	<ol style="list-style-type: none"> 1. Syllabus must be attached; see guidelines for requirements: www.fau.edu/provost/files/course_syllabus.2011.pdf 2. Review Provost Memorandum: Definition of a Credit Hour www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf 3. Consent from affected departments (attach if necessary)
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Email this form and syllabus to UGPC@fau.edu one week before the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.

GLY 6737
Coastal Environments
Spring 2015
3 Credits

General Course Information

Term: Spring 2015

Course type: Classroom course (not online)

CRN: 29467

Location: SE413

Prerequisites: None

Meeting Times: Tuesdays, 3:00 pm to 5:50 pm *and*

Mandatory field trip (*tentatively scheduled for* Friday, February 27th & Saturday, February 28th)

Textbook: None

Instructor

Dr. Tiffany Roberts Briggs

Office: SE 470

Phone: (561) 297-4669

E-mail: BRIGGST@FAU.EDU

Office Hours: Tuesday and Thursday, 12:00 pm to 3:00 pm

In or around SE470 (office) or SE437 (lab). *In the event that I must unexpectedly cancel office hours, I will post an announcement on Blackboard.*

Note on course credit and expected workload

FAU policy grants one semester hour of credit for every hour of (weekly) meeting time for *lecture* courses. As a general rule, students are expected to spend two hours per credit working outside of class. Work outside of this class will consist of class preparation, supplemental reading, group project work, writing assignments, field trips, studying for and taking exams, and completion of other activities assigned by the instructor.

Correspondence Policy:

- For more efficient email correspondences, please include your course number in the subject line of all email correspondences (GLY6737)
- For questions regarding the course schedule, grading, expectations, etc., first review the syllabus for the requested information.
 - FAU student privacy policy prohibits discussion of individual grades via email; an office visit is required.
- Please use your FAU account when emailing; otherwise an unrecognizable email account may be deemed junk or spam (and not read).
- **Under State of Florida law, all e-mails to or from FAU are public records. Do not say anything in an e-mail you would not want to see in a newspaper, etc.**

Withdraw Policy

Students may drop courses between January 5-9, 2015 without receiving a grade of W. A “W” grade will be entered on a student’s record for any course dropped after this date. The last date to withdraw without receiving an “F” grade for that course is February 27, 2015.

Disability Policy Statement

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodation due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) - in Boca Raton, SU 133 (561-297-3880); in Davie, MOD 1 (954-236-1222); in Jupiter, SR 117 (561-799-8585); or at the Treasure Coast, CO 128 (772-873-3305) – and follow all OSD procedures.

Academic Integrity (Honor Code Policy Statement)

“Students at Florida Atlantic University are expected to maintain the highest ethical standards. 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. 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. The FAU Code of Academic Integrity prohibits dishonesty and requires a faculty member, student, or staff member to notify an instructor when there is reason to believe dishonesty has occurred in a course/program requirement. The instructor must pursue any reasonable allegation, taking action where appropriate”. (FAU Regulation 4.001, code of Academic Integrity)

Further details of FAU’s Code of Academic Integrity can be found at http://www.fau.edu/ctl/4.001_Code_of_Academic_Integrity.pdf

Note that although many in-class activities will be collaborative and I encourage students to study together, ALL students are expected to work through all of the assignments and turn in their own work. A score of zero will be given on any assignments that are copies of each other.

Classroom Etiquette

University policy on the use of electronic devices states: “In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular telephones and pagers, are to be disabled in class sessions.” The only exception will be determined and announced by the instructor for special purposes as indicated.

Attendance

Students are expected to be present at all class meetings. Absence from class will have a negative impact on a student’s grade.

Course Description

Dynamics of depositional systems in coastal environments. Emphasis on variability of sediments, geomorphology, and littoral processes associated with coastal dunes, lagoons, estuaries, beaches, and nearshore environments.

Course Objectives

To understand the morphology, sedimentology, and geology of the dynamic coastal system. Students will be able to:

- Identify morphology, processes, and sedimentary characteristics of several coastal environments including beaches, barrier islands, coastal dunes, estuaries, lagoons, and the nearshore;
- Evaluate the coastal processes and hazards associated with these natural environments;
- Apply this knowledge to current coastal issues.

Course Evaluation

<u>Assessment</u>	<u>Points</u>	<u>Percent</u>
Midterm exam	150 points	15%
Final exam	150 points	15%
Term Paper	200 points	20%
Group project	500 points	50%
In-class presentation	200 points	
Field trip	300 points	
Presentation	150 points	
Field notes & participation	150 points	
TOTAL	1000 points	100%

Tentative Course Schedule

A tentative course schedule is provided on the last page of this syllabus. The instructor reserves the right to make changes in the class and course schedule during the semester as necessary for the smooth functioning of the class.

Grading

Letter grades will be assigned based on total points as follows:

930-1000 : A	900-929 : A-	
870-899 : B ⁺	830-869 : B	800-829 : B-
770-799 : C ⁺	730-769 : C	700-729 : C-
670-699 : D ⁺	630-669 : D	600-629 : D-
< 600 : F		

No extra credit will be given.

Grades will be posted to Blackboard. You should also keep a record of your own grades earned in this course. An incomplete or "I" grade) shall ONLY be given for the reasons listed and under the conditions specified in the FAU course catalog:

(<http://www.fau.edu/academic/registrar/catalog/academics.php>).

NOTE: No make-up assignments, examinations or grade disputes will be considered after the last day of classes, specified by FAU as April 20, 2015. The only exception to this will be the use of "Reading Days" in the case of emergencies or approved documentation for missing the final exam in the case of an emergency.

Missed Assignments

All assignments/group project work are due on time. No late assignments will be accepted. Only missed in-class assignments accompanied by documentation for an excused absence will be considered for make-up.

Missed Examinations

Examination dates are posted in the syllabus. It is the student's responsibility to take the tests on the specified date. Failure to take any test will result in a grade of zero (F) on that test. Exceptions will be granted only with appropriate documentation of an emergency.

Blackboard

This course uses Blackboard (<http://bb.fau.edu>) as a course management system where you will find links to the course syllabus, announcements, extra reading, your grades, and other course information.

Lecture Schedule (Tentative)

The instructor reserves the right to change the tentative schedule below for the smooth functioning of the course. Check Blackboard for updates and revisions.

<u>Week</u>	<u>Date</u>	<u>Topics</u>	<u>Homework</u>
1	6-Jan	Introduction: the coastal system	Davis and Fitzgerald (2004) - Ch. 1; Masselink and Gehrels (2014) - Ch. 1
2	13-Jan	Coastal geology; Land & sea level change	Davis and Fitzgerald (2004) - Ch. 2-4; Masselink and Gehrels (2014) - Ch. 2-3
3	20-Jan	Coastal processes; Hazards	Bird (2008) - Ch. 2; Dean and Dalrymple (1991) - Ch. 1, 3, 4; Dean and Dalrymple (2002); <i>group-designated paper*</i>
4	27-Jan	Beaches, dunes, nearshore	Bird (2008) - Ch. 6, 9; Komar (1998) - Ch. 3; Masselink and Gehrels (2014) - Ch. 7, 8; <i>group designated paper*</i>
5	3-Feb	Barrier systems & inlets	Davis and Fitzgerald (2004) - Ch. 8, 12; Masselink and Gehrels (2014) - Ch. 9; <i>group designated paper*</i>
6	10-Feb	Estuaries, lagoons, tidal flats	Davis and Fitzgerald (2004) - Ch. 10, 13, 15; Masselink and Gehrels (2014) - Ch. 10-12; <i>group designated paper*</i>
7	17-Feb	In-Class presentations	Group Project Preparation
8	24-Feb	Mid-term exam	Field Trip: 2/27-28
9	3-Mar	<i>Spring Break</i>	--
10	10-Mar	Deltas, rivers	Davis and Fitzgerald (2004) - Ch. 16; Masselink and Gehrels (2014) - Ch. 13
11	17-Mar	No class - attend colloquium (Friday)	Colloquium, Friday, March 20 th at 12:00 pm
12	24-Mar	Coastal stratigraphic sequences	Davis (1978) - Ch. 5-7; Masselink and Gehrels (2014) - Ch. 3; Nichols (2009) - Ch. 13, 23

13	31-Mar	Future of coastal environments	Bird (2008) - Ch. 14; Davis and Fitzgerald (2004) - Ch. 21; Masselink and Gehrels (2014) - Ch. 17
14	7-Apr	Synthesis	Individual and Group Project Work
15	14-Apr	Term paper due	Study for Final Exam
16	21-Apr	Take home final exam (Thurs.)	Thursday, 4/23: 1:15-3:45 pm

**Group designated paper:* Each member selects and leads the in-class discussion on a peer-reviewed journal article related to the group topic [e.g., Beaches group – discussion of morphology: Benedet et al., (2004). Morphodynamic Classification of Beaches on the Atlantic Coast of Florida: Geographical Variability of Beach Types, Beach Safety and Coastal Hazards. *Journal of Coastal Research* SI(39), 360-365]. The paper must be approved by the instructor prior to the in-class discussion.

References (Homework):

- Bird, E., 2008. Coastal Geomorphology. Wiley and Sons, 411 p.
 Davis, R.A., 1978. Coastal Sedimentary Environments. Springer, 420 p.
 Davis, R.A. and Fitzgerald, D.M., 2004. Beaches and Coasts. Blackwell Publishing, 419 p.
 Dean, R.G. and Dalrymple, R.A., 1991. Water Wave Mechanics for Engineers and Scientists. World Scientific, 353 p.
 Dean, R.G. and Dalrymple, R.A., 2002. Coastal Processes with Engineering Applications. Cambridge University Press, 475 p.
 Komar, P.D., 1998. Beach Processes and Sedimentation. Prentice-Hall, 544 p.
 Masselink, G., and Gehrels, R., 2014. Coastal Environments and Global Change. Wiley & Sons, 438 p.
 Nichols, G., 2009. Sedimentology and Stratigraphy. Wiley-Blackwell, 419 p.

Group topics:

- 1) Beaches (includes storm-induced processes, such as overwash)
- 2) Nearshore (includes hardbottom, reefs, and sandbars)
- 3) Inlets (includes estuarine processes)
- 4) Lagoons (includes back-barrier environments, such as mangrove shorelines and tidal flats)