

FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—NEW COURSE PROPOSAL¹

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

DEPARTMENT: BIOLOGICAL SCIENCES

COLLEGE: COLLEGE OF SCIENCE

RECOMMENDED COURSE IDENTIFICATION:

PREFIX _____ OCB _____ COURSE NUMBER 6266L LAB CODE (L or C) L _____

(TO OBTAIN A COURSE NUMBER, CONTACT MJENNING@FAU.EDU)

COMPLETE COURSE TITLE: Coral Reef Ecosystems Lab

EFFECTIVE DATE

(first term course will be offered)
 SPRING 2015

CREDITS²: 1

TEXTBOOK INFORMATION: Humann, N, and P. Deloach. 2013. Reef Coral Identification: Florida, Caribbean, Bahamas, Third Edition. New World Publications, Inc. 276 pp. ISBN-13: 9781878348548

GRADING (SELECT ONLY ONE GRADING OPTION): REGULAR SATISFACTORY/UNSATISFACTORY _____

COURSE DESCRIPTION, NO MORE THAN THREE LINES: Field and laboratory based exploration of coral reef ecosystems focused on coral identification and underwater scientific methods for coral research.

PREREQUISITES*: Demonstrated ability to swim/snorkel 400 yards continuously using a snorkel vest and Preferred but not required: open water scuba certification

COREQUISITES*: Coral Reef Ecosystems

REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL)*:

* PREREQUISITES, COREQUISITES AND REGISTRATION CONTROLS WILL BE ENFORCED FOR ALL COURSE SECTIONS.

MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: PH.D. IN THE RELEVANT FIELD

Faculty contact, email and complete phone number:
 Dr. Joshua Voss
jvoss2@hboi.fau.edu
 (772) 242-2538

Please consult and list departments that might be affected by the new course and attach comments.³

Approved by:

Department Chair: [Signature]

College Curriculum Chair: [Signature]

College Dean: [Signature]

UGPC Chair: [Signature]

Graduate College Dean: [Signature]

UFS President: _____

Provost: _____

Date:

1/30/14

2/10/14

2/16/14

2/26/14

2/26/14

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)

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.

Course Syllabi for Coral Reef Ecosystems Lab

1. **Course title/number, number of credit hours:**
Coral Reef Ecosystems Lab – OCB 6266L – 1 credit hour
2. **Course prerequisites**
 - a. Corequisite: Coral Reef Ecosystems
 - b. Demonstrated ability to swim/snorkel 400 yards continuously using a snorkel vest.
 - c. Preferred but not required: open water scuba certification
3. **Course logistics**
 - a. Term – Spring 2015, every other Spring thereafter
 - b. Notation if online course – The course is not offered online.
 - c. Class location and time (if classroom-based course) – To be determined
4. **Instructor contact information**
 - a. Instructor's name – Joshua Voss
 - b. Office address – Harbor Branch Lab II, Room 121
 - c. Office hours – To be determined
 - d. Contact telephone number – office (772) 242-2538, fax (772) 468-0757
 - e. E-mail address – jvoss2@hboi.fau.edu
5. **TA contact information (if applicable)**
N/A
6. **Course description**
Field and laboratory based exploration of coral reef ecosystems focused on coral identification and underwater scientific methods for coral research.
7. **Course objectives/student learning outcomes**
Students will be able to:
 - a. Identify common coral reef species both in the field and lab, with emphasis on Florida and the Caribbean.
 - b. Design and implement field surveys to assess coral reefs.
 - c. Effectively use Coral Point Count to analyze photo and video survey images.
8. **Course evaluation method**
Two practical exams, one in the laboratory and one in the water, will each account for 30% of the student's cumulative performance. A group research project and presentation will account for 40% of the student's cumulative performance. The overall grade in the course is derived from the cumulative performance according to the following table.

9. Course grading scale (optional)

Cumulative Performance	Grade
>93%	A
>90% - 93%	A-
>87% - 90%	B+
>83% - 87%	B
>80% - 83%	B-
>75% - 80%	C+
>65% - 75%	C
>60% - 65%	C-
>57% - 60%	D+
>53% - 57%	D
>50% - 53%	D-
<50%	F

10. Policy on makeup tests, late work, and incompletes

If a student cannot attend an exam or hand in a homework project on time due to circumstances beyond their control then the instructor may assign appropriate make-up work. Students will not be penalized for absences due to participation in University-approved activities, including athletic or scholastics teams, musical and theatrical performances, and debate activities. These students will be allowed to make up missed work without any reduction in the student's final course grade. Reasonable accommodation will also be made for students participating in a religious observance. Also, note that grades of Incomplete ("I") are reserved for students who are passing a course but have not completed all the required work because of exceptional circumstances. A grade of "I" will only be given under certain conditions and in accordance with the academic policies and regulations put forward in FAU's University Catalog. The student must show exceptional circumstances why requirements cannot be met. A request for an incomplete grade has to be made in writing with supporting documentation, where appropriate.

11. Special course requirements (if applicable)

This course will include an intensive field component at the Florida Keys Marine Laboratory to be completed during the week of spring break.

12. Classroom etiquette policy (if applicable)

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."

13. 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.

14. Honor Code policy statement

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty, including cheating and plagiarism, 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 at <http://www.fau.edu/regulations/chapter4/4.001> Honor_Code.pdf.

15. Required texts/readings

Humann, N, and P. Deloach. 2013. Reef Coral Identification: Florida, Caribbean, Bahamas, Third Edition. New World Publications, Inc. 276 pp. ISBN-13: 9781878348548

16. Supplementary/recommended readings (optional)

Humann, N, and P. Deloach. 2013. The Reef Set, Third Edition. New World Publications, Inc. 1250 pp. ISBN-13: 9781878348333 (note that the three volume set includes Reef Coral Identification)

Selected articles to be provided from the journals *Coral Reefs*, *Marine Ecology Progress Series*, etc.

17. Course topical outline

Topic	Assignments
1. What is coral? What is not?	Humann 14-21
2. Major coral families	Budd et al. (pdf)
3. Branching corals	Humann 86-109
4. Boulder corals	Humann 109-135
5. Plating and encrusting corals	Humann 135-155
6. Soft corals	Humann 22-85
7. Underwater survey techniques- theory and design	CREMP (pdf)
8. Underwater survey techniques- simple habitats	Draft survey protocol
9. Underwater survey techniques- complex habitats	Protocol critiques
10. Underwater imaging technology and techniques	Gietler (pdf)
11. Field surveys- back and mid-channel reefs	Final survey protocol
12. Field surveys- reef crest	Data entry
13. Field surveys- fore reef	Data entry

14. Image editing and CPCe
15. Data curation and analysis
16. Project presentation

Kohler et al. (pdf)
Data QA/QC
Final project report