

# FLORIDA ATLANTIC UNIVERSITY™

## Undergraduate Programs—COURSE CHANGE REQUEST<sup>1</sup>

UUPC APPROVAL \_\_\_\_\_  
 UFS APPROVAL \_\_\_\_\_  
 SCNS SUBMITTAL \_\_\_\_\_  
 CONFIRMED \_\_\_\_\_  
 BANNER POSTED \_\_\_\_\_  
 CATALOG \_\_\_\_\_

<b>DEPARTMENT: BIOLOGICAL SCIENCE</b>	<b>COLLEGE: COLLEGE OF SCIENCE</b>
<b>COURSE PREFIX AND NUMBER: OCB 4633</b>	<b>CURRENT COURSE TITLE: MARINE ECOLOGY</b>
<b>CHANGE(S) ARE TO BE EFFECTIVE (LIST TERM): FALL 2013</b>	<b>_____ TERMINATE COURSE (LIST FINAL ACTIVE TERM):</b>
<p><b>CHANGE TITLE TO:</b></p> <p><b>CHANGE PREFIX FROM: TO:</b></p> <p><b>CHANGE COURSE NO. FROM: TO:</b></p> <p><b>CHANGE CREDITS<sup>2</sup> FROM: TO:</b></p> <p><b>CHANGE GRADING FROM: TO:</b></p> <p><b>CHANGE WAC/GORDON RULE STATUS<sup>3</sup></b>                  ADD* _____ REMOVE _____</p> <p><b>CHANGE GENERAL EDUCATION REQUIREMENTS<sup>4</sup></b>                  ADD* _____ REMOVE _____</p> <p><small>*WAC and General Education criteria must be clearly indicated in attached syllabus. For WAC Guidelines: <a href="http://www.fau.edu/WAC">www.fau.edu/WAC</a>. Please attach General Education Course Approval Request: <a href="http://www.fau.edu/deanugstudies/GeneralEdCourseApprovalRequests.php">www.fau.edu/deanugstudies/GeneralEdCourseApprovalRequests.php</a></small></p>	<p><b>CHANGE DESCRIPTION TO:</b></p> <p><b>CHANGE PREREQUISITES/MINIMUM GRADES TO*:</b></p> <p><u>EXISTING</u>                  BSC 1010,BSC1010L,BSC 1011,BSC 1011L</p> <p><u>NEW PRE/REQ.</u>                  BSC 1010,BSC1010L,BSC 1011,BSC 1011L,CHM 2045,CHM 2045L CHM 2046,CHM 2046L,CHM 2210,CHM 2211, CHM 2211L</p> <p><u>MINIMUM PASSING GRADE C-</u></p> <p><b>EXISTING COREQUISITES:</b></p> <p><b>CHANGE COREQUISITES TO*:</b></p> <p><b>CHANGE REGISTRATION CONTROLS TO:</b></p> <p><small>*Please list existing and new pre/corequisites, specify AND or OR and</small></p>
<b>Attach syllabus for ANY changes to current course information.</b>	
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. <sup>5</sup>

Faculty contact, email and complete phone number:  
 David Binninger; binninge@fau.edu; 561.297-3323

<p><b>Approved by:</b></p> <p>Department Chair: <u>David Binninger</u></p> <p>College Curriculum Chair: <u>J E My</u></p> <p>College Dean: <u>J E My</u></p> <p>UUPC Chair: <u>J E My</u></p> <p>Undergraduate Studies Dean: <u>Elizabeth</u></p> <p>UFS President: _____</p> <p>Provost: _____</p>	<p><b>Date:</b></p> <p>Feb. 27, 2013</p> <p><u>3/22/13</u></p> <p><u>3/20/13</u></p> <p><u>3/22/13</u></p> <p><u>3/27/13</u></p>	<p><b>1. Syllabus must be attached; syllabus checklist recommended; see guidelines and checklist:</b>  <a href="http://www.fau.edu/academic/registrar/UUPCinfo">www.fau.edu/academic/registrar/UUPCinfo</a></p> <p><b>2. Review Provost Memorandum: Definition of a Credit Hour</b>  <a href="http://www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf">www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf</a></p> <p><b>3. WAC approval (attach if necessary)</b></p> <p><b>4. Gen. Ed. approval (attach if necessary)</b></p> <p><b>5. Consent from affected departments (attach if necessary)</b></p>
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Email this form and syllabus to [mianning@fau.edu](mailto:mianning@fau.edu) seven business days before the University Undergraduate Programs Committee meeting so that materials may be viewed on the UUPC website prior to the meeting.

Department of Biological Sciences  
Charles E. Schmidt College of Science  
Florida Atlantic University

**Marine Ecology**  
**3 Credits**  
**Course Syllabus**

Instructor: C. Edward Proffitt

E-mail: cproffit@fau.edu

Office Hours: Harbor Branch (HBOI) campus, Marine Science II Room 102, M,Th 9:30-10:30 AM or by appointment

TA Contact Information: Kathryn Tiling, ktiling@fau.edu

**This syllabus applies to all sections taught by this instructor and is subject to change at any time by the instructor. Changes may be announced online via blackboard or verbally in class or by email to the class.**

**Course Location:** Educ. Center, HBOI. 210 M, Th: Section 12483 10:40 AM – noon, Section 17992 1-1:50 PM

**Course Description/Student learning outcomes:** This three credit course is designed for students majoring in biological or environmental science, or Honors College with a marine emphasis, who are considering future careers in a marine biological subdiscipline. This is a core course for the Semester-by-the-Sea program at HBOI. This course will cover basic and advanced concepts of the ecology of marine species, communities, and ecosystems. This includes, but is not limited to physiological ecology, competition, predation, genetic ecology, landscape ecology, and evolutionary ecology. Students are expected to leave this course with a working knowledge of the material and concepts presented. This means not just memorizing the material, but also being able to understand and apply it.

**Course Materials (ALL books are on reserve in the HBOI library):**

Barnes and Hughes. Marine Ecology. 3<sup>d</sup> edition or later.

Primary Supplemental text:: Bertness, Gaines, and Hay. Marine Community Ecology.

Secondary Supplemental text: Pianka. Evolutionary Ecology. 5<sup>th</sup> edition.

**Course Co-requisite:** OCB-4633L

**Course Prerequisites:** BSC 1010,BSC 1010L,BSC 1011,BSC 1011L,CHM 2045,CHM 2045L,CHM 2046,CHM 2046L,CHM 2210,CHM 2211,CHM 2211L, with a Minimum grade of C-

**Course Policies and Procedures:**

a. **Course Evaluation:** Grades will be based as a percentage of the possible points/student.

Tests will include short answer, and essay questions based on lecture topics (including guest lectures) and papers assigned for discussion.

**Test 1 is the first Monday in March**

**Test 2 is the last day of finals.** Test 2 will cover approximately 75% new material and 25% from topics covered for test 1

1. No additional extra credit assignments will be given or accepted.

b. **Course Examinations:** The exams will consist of essay, short answer, and multiple choice questions. **Be on time for the exams.** Students who arrive late will not receive extra time to complete an exam. Once the first student has completed and turned in an exam, no additional late students will be admitted. Those who are not admitted or present for an exam will receive a grade of zero for that test regardless of the excuse. If a student misses an exam, they must notify the instructor by email within 2 days of the missed test and provide a valid excuse along with the proper documentation as defined by the FAU Academic Policies and Regulations ([http://www.fau.edu/academic/registrar/09-10\\_catalog/academics.html](http://www.fau.edu/academic/registrar/09-10_catalog/academics.html)) A student with a valid excuse and proper documentation may make up a single missed exam by taking a cumulative written exam following the final examination. There is no make-up for missed I-clicker quizzes or extra credit.

c. **Total Grade Percentages:**

Term paper OR assistance with outside research project (10%)

Written paper critiques: 15%

Participation in Class Discussions of papers: 15%

Tests: **two** including the final, combined are worth 60% of your final course grade.

d. **Grading Scale:** The following scale will be used for computing the final grade.

A = 92 - 100%

C+= 78 - 79%

A- = 90 - 91%

C = 70 - 77%

B+= 88 - 89%

D = 60 - 69%

B = 82 - 87%

F = less than 60%

B- = 80 - 81%

2. **Attendance Policy:** Attendance for exams is required. Although your attendance for normal lecture days is not required, it is advantageous for you to be present for the entire lecture as I-clicker quizzes may be given at any time, and multiple times, during a class period. Any student who is more than 15 minutes late to class may not be admitted. If a student cannot attend an exam 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.

3. **Incomplete Grade:** A grade of Incomplete ("I") is 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. As per university policy, an incomplete grade will only be given to a student who fulfills all of the following criteria:

- a. misses multiple exams or the final examination due to a legitimately documented emergency as defined by the FAU Academic Policies and Regulations ([http://www.fau.edu/academic/registrar/09-10\\_catalog/academics.htm](http://www.fau.edu/academic/registrar/09-10_catalog/academics.htm))
- b. has a grade of C or better
- c. submits evidence of the emergency and signs an incomplete agreement.

4. **Safety:** No food or drinks are permitted in the lecture hall.

5. **Classroom Etiquette Policy:** 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." You may be asked to leave the class session for noncompliance.

6. **Student Honor Policy:** 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/ctl/4.001\\_Code\\_of\\_Academic\\_Integrity.pdf](http://www.fau.edu/ctl/4.001_Code_of_Academic_Integrity.pdf)

**Cheating is a serious offense. If you are caught cheating, you will receive an F in the course. In addition, you will be referred to the Dean of Student Services and charged with an academic crime. Test procedures and rules will be stated at the beginning of each exam. Keep your eyes on your own exam.**

**Disabilities 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..

**Important Dates:** The following dates are based upon the current university academic calendar. Changes to these critical dates have occurred in the past and you are responsible for checking the academic calendar on the university website for any changes during the academic term.

<http://www.fau.edu/registrar/pdf/Docs/acadcal1213.pdf>

Last day to withdraw w/o receiving a "W"	- January 11 <sup>th</sup>
M.L.K. Jr. Holiday	- January 21 <sup>st</sup>
Last day to withdraw w/o receiving an "F"	- March 1 <sup>st</sup>
Spring Break	- March 4 <sup>th</sup> – 10 <sup>th</sup>
Final Examinations	- April 25 <sup>th</sup> – May 1 <sup>st</sup>

*University Final exam Schedule*

[http://www.fau.edu/registrar/schedule/pdf/docs/Spring\\_2013\\_Final\\_Exam\\_Schedule.pdf](http://www.fau.edu/registrar/schedule/pdf/docs/Spring_2013_Final_Exam_Schedule.pdf)

**MARINE ECOLOGY**  
**Spring 2013 Schedule**  
**FAU Harbor Branch Campus**

**Instructor: Ed Proffitt**

<b>Date</b>	<b>Lecture</b>	<b>Readings for class discussion &amp; Textbook Ch. (ME=Mar. Ecol.; MCE=Mar. Comm. Ecol; EE=Pianka)</b>
Wk 1	What is ecology? Discuss marine patterns and processes. Categorize hierarchal levels of ecological study. Discussion of theoretical vs applied ecology. Catalogue divisions or sub-disciplines within ecology. Discuss differences between natural resources management and ecology.	ME: Ch 1, Ch 9 EE Ch 17 (Experimental Ecology!!!)
Wk 2	Characterization of some global patterns of importance to marine organisms. Focus on ecological effects of physical factors. Discuss the Indian River Lagoon (communities, pollution problems, etc). The ecological niche concept. Latitudinal limits, hypersaline lagoons, climate	EE pgs 82-84 and 95-97; and Ch. 13 MCE Ch 9 & 13 <b>First paper class <u>discussion</u> (a student will lead): last 15-20 minutes of class. Duarte et al. 2009. Shifting baselines. Estuaries &amp; Coasts.</b>
Wk 3	Physiological ecology	
Wk 4	Species interactions: Begin Competition and Predation	ME Ch. 2, 3, 4, 5 MCE Ch. 10, 11, 12, and 16 EE Ch 8 & 9 <b>Paper class <u>discussion</u> (a student will lead):</b> approximately 15 minutes. Bishop & Peterson 2006. Oecologia 147:426–433
Wk 5	Population ecology - Population growth, life tables, survivorship curves, etc. Applications in the marine environment.	Continue previous reading
Wk 6	Population ecology con't	EE Ch 8 and 9; MCE Chs 9 & 13 <b>Paper class <u>discussion</u> (a student will lead):</b> approximately 15 minutes Taplin et al. 2005. Aquatic Botany 83: 175–186

Wk 7	Fisheries ecology	<b>Paper class discussion</b> (a student will lead): approximately 15 minutes. Johnson. 2007. Ecology 88:1716-1725.
Wk 8	Fisheries population biology. TEST 1 (everything to date)	ME Ch 2-8 (pgs on fish pop. Growth, stocks, etc )
Wk 9	begin species interactions: Facilitation, competition, etc.	EE Ch 11, 12, & 15
Wk 10	Species interactions: Facilitation, competition, etc. con't	MCE Ch 8 <b>Paper class discussion</b> (a student will lead): approximately 15 minutes. Halpern et al 2006 Science 312: 1230-1232.
Wk 11	Begin community ecology	Reading TBA
Wk 12	Community ecology, Diversity and stability....relationship? Can natural communities resist invading exotic species?	<b>Paper class discussion</b> (a student will lead): approximately 15 minutes. Idjadi, J.A. and R.H. Karlson. 2007. Ecology 88:2449-2454.
Wk 13	Community ecology. – assembly rules, disturbance theory.	Paper TBA
Wk 14	Finish community ecology, begin more specifics on Mangrove & salt marsh communities – Richness, physical factors, biotic factors, disturbance, etc. Salt marsh-mangrove facilitation AND <i>Uca/Littoraria</i> effects	<b>Paper class discussion</b> (a student will lead): approximately 15 minutes Wilson and Whittaker. 1995. J Ecol 83:801-807
Wk 15	Begin Ecosystem & Landscape Ecology	ME Ch 10 & 11 EE Ch 16, 17 MCE Ch 2 & 4 <b>Paper class discussion</b> (a student will lead): approximately 15 minutes Stone et al. 1996. Am. Nat. 148:892-903.
Wk 16	Continue Ecosystem & Landscape Ecology	Reading TBA
Finals Wk	Final Exam, last day of finals	