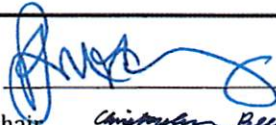
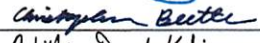

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW COURSE PROPOSAL</b> <b>Graduate Programs</b>		UGPC Approval _____ UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner _____ Catalog _____	
	<b>Department</b> Marine Science and Oceanography  <b>College</b> Science <i>(To obtain a course number, contact erudolph@fau.edu)</i>			
<b>Prefix</b> OCB  <b>Number</b> 6066	<i>(L = Lab Course; C = Combined Lecture/Lab; add if appropriate)</i> <b>Lab Code</b>	<b>Type of Course</b> Lecture	<b>Course Title</b> Biological Oceanography	
<b>Credits</b> <i>(Review Provost Memorandum)</i> <b>3</b>	<b>Grading</b> <i>(Select One Option)</i>  Regular X  Sat/UnSat	<b>Course Description</b> <i>(Syllabus must be attached; see Guidelines)</i> OCB 6066 explores major biological processes within the world's oceans, including estuaries, continental margins, and the open ocean.		
<b>Effective Date</b> <i>(TERM &amp; YEAR)</i> <b>Fall 2020</b>	<b>Prerequisites</b> Required: Introductory Biology (equal to BSC 1010 and BSC 1011) Recommended: Ecology (equal to PCB 4043)			
<b>Prerequisites, Corequisites and Registration Controls are enforced for all sections of course.</b>		<b>Academic Service Learning (ASL) course</b> Academic Service Learning statement must be indicated in syllabus and approval attached to this form.		<b>Registration Controls</b> <i>(For example, Major, College, Level)</i> Graduate standing
<b>Minimum qualifications needed to teach course:</b> Member of the FAU graduate faculty and has a terminal degree in the subject area (or a closely related field.)		<b>List textbook information in syllabus or here</b> Miller, C.B. and P.A. Wheeler. 2012. Biological Oceanography, 2nd edition, Wiley-Blackwell, New York. or Lalli, C.M. and T. R. Parsons. 1997. Biological oceanography: an introduction. Butterworth-Heinemann, Burlington, MA		
<b>Faculty Contact/Email/Phone</b> Matthew J. Ajemian/6-2730/majemian@fau.edu		<b>List/Attach comments from departments affected by new course</b>		

<b>Approved by</b> Department Chair  College Curriculum Chair  2020.03.06 11:43:16 -05'00' College Dean  UGPC Chair _____ UGC Chair _____ Graduate College Dean _____ UFS President _____ Provost _____	<b>Date</b> 2/24/2020  _____ March 9, 2020 _____ _____ _____ _____
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Email this form and syllabus to [UGPC@fau.edu](mailto:UGPC@fau.edu) 10 days before the UGPC meeting.

## Course Syllabus

### Biological Oceanography – OCB 6066, 3 credits

**Lectures:** Fall semesters, Mondays, 10 - 12:50 pm.

Instructors:

**Lead Instructor:** Matthew J. Ajemian, Ph.D.; Room 138, HB-01,  
Phone: (772) 242-2730      E-mail: majemian@fau.edu

Office hours: By appointment

**TA Contact Information:** None

**Course Location:** MC 209, Johnson Education Center, Harbor Branch Oceanographic Institute at Florida Atlantic University, Fort Pierce

**Prerequisites:**

**Required:** Graduate standing, Introductory Biology (equal to BSC 1010 and BSC 1011)

**Recommended:** Ecology (equal to PCB 4043)

**Course Description:** OCB 6066 explores major biological processes within the world's oceans, including estuaries, continental margins, and the open ocean.

#### Course Objectives/Student Learning Outcomes

This course aims to expose students to major biological processes within the world's ocean, including estuaries, continental margins, and the open ocean. After completing this course, students should be able to:

- a. Understand important biological processes occurring in the marine environment and the interactions of these processes
- b. Be familiar with the composition and structure of major marine communities
- c. Understand the natural and anthropogenic environmental factors and processes that control the abundances and distributions of marine organisms in space and time
- d. Appreciate the major problems and challenges in biological oceanography, including climate change
- e. Discern that marine systems are experiencing rapid climate change and predict how marine biota will be affected by future climate changes
- f. Interpret oceanographic observations and intuitive cause-and-effect relationships to better understand, manage, and conserve the ocean and its ecosystems

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## Recommended Text/Readings

### Textbooks:

Miller, C.B. and P.A. Wheeler. 2012. *Biological Oceanography*, 2nd edition, Wiley-Blackwell, New York.

or

Lalli, C.M. and T. R. Parsons. 1997. *Biological oceanography: an introduction*. Butterworth-Heinemann, Burlington, MA

### Readings:

#### Biological Oceanography

Relevant readings will be provided before lectures.

## Course Policies and Procedures

### Course Evaluation Methods

Final grades will be determined by averaging together grades for four activities:

Mid-Term Exam (250 points)	25%
Final Exam (250 points)	25%
Special Topic Presentation (200 points)	20%
Field Data Participation/Group Presentation (200 points)	20%
Homework/Quizzes (100 points)	10%

### Course Grading Scale

Percentage Score:	Grade:	Percentage Score:	Grade:
92% - 100%	A	72% - 77%	C
90% - 91%	A-	70% - 71%	C-
88% - 89%	B+	68% - 69%	D+
82% - 87%	B	62% - 67%	D
80% - 81%	B-	60% - 61%	D-
78% - 79%	C+	0% - 59%	F

**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, debate activities, or research activities condoned by a thesis advisor, with permission from the instructors. 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

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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.

**Religious Accommodations:** Students who wish to be excused from coursework, class activities or examinations **must notify the instructor in advance of their intention to participate** in religious observation and request an excused absence.

**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:

1. 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.html](http://www.fau.edu/academic/registrar/09-10_catalog/academics.html)
2. Has a grade of C or better
3. Submits evidence of the emergency and signs an incomplete agreement.

**Safety:** No food or drinks are permitted in the laboratory.

**Field work:** The course has a planned all-day field excursion to provide students with the opportunity to experience oceanographic instrumentation and data collection. The excursion will also include team-building activities as most deployments and collections require collaborations. The excursion will be planned with the Physical/Geological Oceanography Course and will be all day. Students should make necessary arrangements to attend this activity as it is instrumental to the course. There will be a data workup as well and presentation later in the semester.

**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.

**Code of Academic Integrity Statement:** 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: [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.**

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**Disabilities Policy Statement:** 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/>.

**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.

*Academic calendar:* <https://www.fau.edu/registrar/pdf/AcademicCalendar2020-2021.pdf>

Last day to withdraw w/o consequences	August 20 <sup>th</sup> , 2020
Labor Day Holiday	Sep. 7 <sup>th</sup> , 2020
Veteran's Day Holiday	November 11 <sup>th</sup> , 2020
Last day to withdraw w/o receiving an "F"	October 30 <sup>th</sup> , 2020
Thanksgiving Recess	November 26-29, 2020

*University Final exam Schedule:*

[https://www.fau.edu/registrar/pdf/Fall\\_2020\\_Final\\_Exam\\_Schedule-Mar\\_27.pdf](https://www.fau.edu/registrar/pdf/Fall_2020_Final_Exam_Schedule-Mar_27.pdf)

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Tentative Schedule (Fall, Mondays):

Week	Date	Topic (tentative)	Assignments
1	24-Aug	Ocean Ecology	
2	31-Aug	Phytoplankton taxonomy, photosynthesis, growth	
3	7-Sep	<b>NO CLASS - LABOR DAY</b>	
4	14-Sep	The Microbial Loop	
5	21-Sep	Zooplankton taxonomy and production ecology	Quiz #1
6	28-Sep	Introduction to Nekton	Special Topic Due
7	5-Oct	<b>MIDTERM EXAM</b>	
8	12-Oct	Fisheries Oceanography	
9	19-Oct	<b>FIELD DAY w/ PHYS OCE CLASS</b>	
10	26-Oct	Marine Megafauna	
11	2-Nov	Open Ocean Processes	
12	9-Nov	Coastal/Estuarine Processes	
13	16-Nov	Benthic processes/communities	
14	23-Nov	Animals as Oceanographers	Quiz #2
15	30-Nov	<b>STUDENT SPECIAL TOPIC</b>	
16	7-Dec	<b>STUDENT SPECIAL TOPIC</b>	Special Topic Paper due (See syllabus)
17	14-Dec	<b>FINAL EXAM</b>	