Undergraduate Programs—COURSE CHANGE REQUEST

Department: Biological Science

Course Prefix and Number: OCE4006

Course Title: Marine Science

Change(s) are to be effective (list term): Fall 2013

Change Title To:

Change Prefix from: TO:

Change Course No. from: TO:

Change Credits FROM: TO:

Change Grading from: TO:

Change WAC/Gordon Rule status

ADD* REMOVE

Change General Education Requirements

ADD* REMOVE

*WAC and General Education criteria must be clearly indicated in attached syllabus. For WAC Guidelines: www.fau.edu/WAC.
Please attach General Education Course Approval Request: www.fau.edu/deanofstudies/GeneralEdCourseApprovalRequests.php

Change Description to:

Change Prerequisites/Minimum Grades to*

Existing
CHM 2045, CHM 2045L, CHM 2046, CHM 2046L

New Pre/Req.
BSC 1010, BSC 1010L, BSC 1011, BSC 1011L, CHM 2045, CHM 2045L, CHM 2046, CHM 2046L, CHM 2210, CHM 2211, CHM 2211L

Minimum Passing Grade C:

Existing Corequisites:

Change Corequisites to:

Change Registration Controls to:

*Please list existing and new pre/corequisites, specify AND or OR and separate by a comma and add final "and"

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.

Faculty contact, email and complete phone number:

David Binninger; binninge@fau.edu; 561.297-3323

Approved by:
Department Chair:  

College Curriculum Chair:  

College Dean:  

UUPC Chair:  

Undergraduate Studies Dean:  

UFS President:  

Provost:  

Date:  
Feb. 27, 2013  

1. Syllabus must be attached; syllabus checklist recommended; see guidelines and checklist: www.fau.edu/academic/registrar/UUPCinfo

2. Review Provent Memorandum: Definition of a Credit Hour www.fau.edu/Provost/files/Definition_Credit_Hour_Memo_2012.pdf

3. WAC approval (attach if necessary)

4. Gen. Ed. approval (attach if necessary)

5. Consent from affected departments (attach if necessary)

Email this form and syllabus to mienning@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.

FAUchange—Revised September 2012
Syllabus
Marine Science, OCE 4006 001(CRN 21877)
4 Credits
Fall , 2013

Prerequisites: BSC, 1010,BSC1010L,BSC1011,BSC 1011L,CHM 2045, 2045L, 2046, 2046L,CHM 2210,CHM 2211,CHM 2211L, with a Minimum grade of C-

Corequisites: None

Course Logistics: Lectures originate at Harbor Branch Oceanographic Institute at FAU (MC 209), Mondays and Thursdays, 3:00 to 4:50 p.m.

Instructor Contact Information:
Dr. Ned Smith, office: Rm 113, Marine Science Building, 5775 Old Dixie Hwy, Fort Pierce, FL 34946, nsmith54@hboi.fau.edu, (772) 242-2441, office hours by appointment.

Dr. M. Dennis Hanisak, office: Rm 135, Lab 2 Building, HBOI_FAU, 5600 Old Dixie Hwy, Fort Pierce, FL 34946, dhanisak@hboi.fau.edu, (772) 242-2306, office hours Friday 11 a.m., and by appointment.

Course Description:
An introduction to geological, physical and chemical oceanography.

Course Objectives and Learning Outcomes:
This course is intended to provide a survey of marine geology, physical oceanography and marine chemistry. Through lectures and homework assignments, students will achieve a broad understanding of the fundamental concepts in these three branches of marine science.

Course Grading Scale:
Cumulative performance (¼ from Marine Geology, ½ from Physical Oceanography, ¼ from Marine Chemistry):

| 92-100% | A | 90-91% | A- |
| 88-89% | B+ | 82-87% | B |
| 78-79% | C+ | 72-77% | C |
| 68-69% | D+ | 62-67% | D |
| 0-59% | F |

Homework
Homework exercises will be handed out at the start of each section of the course (e.g., the four geology exercises will be handed out at the start of the marine geology section). Each exercise has a due date, but it can be handed in at any time before the due date. Points obtained from homework will be added to points obtained from exams to determine a student’s final grade. Students will be expected to complete homework problems as assigned.
Policy on make-up tests, late work and incompletes

Assignments completed late will be accepted only with prior approval and under exceptional circumstances. Grades of Incomplete (“I”) will be given only to students who are passing the course but have not completed required assignments due to exceptional circumstances.

Disability Policy Statement:

In compliance with the Americans with Disabilities Act, students who require reasonable accommodations 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, LA 240 (954-236-1222); in Jupiter, SR 110 (561-799-8010) or at the Treasure Coast Campus, CO 117 (772-873-3441)—and follow all OSD procedures.

Religious Accommodations

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

Code of Academic Integrity Policy 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 at http://www.fau.edu/ctl/4.001_Code_of_Academic_Integrity.pdf

Required Text/readings:


Course Topical Outline:

Lectures presented by Dr. Ned Smith and Dr. Dennis Hanisak are indicated by NPS and MDH, respectively. The schedule of topics to be discussed is subject to change during the semester, depending on the needs of the class. Exams will be given during the usual class periods (same time, same room).

Week 1: Monday, January 7th  NPS: Introduction to marine geology, Earth’s structure, plate tectonics. Assigned reading: Chapter 3

Week 1: Thursday, January 10th  NPS: Plate tectonics (continued). Assigned reading: Chapter 3. Homework exercise “G1” due.
Week 2: Monday, January 14th  NPS: Continental margins and ocean basins (continued).  Assigned reading: Chapter 4


Week 3: Monday, January 21st  (No Class, MLK Holiday)


Week 4: Monday, January 28th  NPS: Coasts I.  Assigned reading: Chapter 12.


Week 5: Monday, February 4th  Marine Geology Exam

Week 5: Thursday, February 7th  NPS: Introduction to physical oceanography, temperature structure, water masses, sound and light in the ocean.  Assigned reading: Chapter 6

Week 6: Monday, February 11th  NPS: Energy balance, the heat budget equation, impacts of global warming.  Assigned reading: Chapter 6


Week 8: Monday, February 25th  Physical Oceanography Exam 1


Week 9: Monday, March 4th  No class (Spring Break)

Week 9: Thursday, March 7th  No class (Spring Break)


Week 11: Monday, March 18th  No class (Oceanographic Experience Cruise)

Week 11: Thursday, March 21st  No class (Oceanographic Experience Cruise)

Week 12: Monday, March 25th  NPS: Ocean tides II: Tides in the World Ocean, around the United States and around Florida. Assigned reading: Chapter 11.


Week 13: Monday, April 1st  Physical Oceanography Exam 2

Week 13: Thursday, April 4th  MDH: Introduction to marine chemistry. Assigned reading: Chapter 7

Week 14: Monday, April 8th  MDH: Chemical composition of seawater

Week 14: Thursday, April 11th  MDH: Marine nutrient cycles

Week 15: Monday, April 15th  MDH: Trace metal chemistry

Week 15: Thursday, April 18th  MDH: Dissolved gases in seawater

Week 16: Monday, April 22nd  MDH: Carbonate system in the sea

Week 16: Thursday, April 25th  Marine Chemistry Exam (10:00a-12:30p)