

**Department of Ocean and Mechanical Engineering
Florida Atlantic University
Course Syllabus**

1. Course title/number, number of credit hours	
OCE 3008 – Oceanography	# of credit hours 3
2. Course prerequisites, corequisites, and where the course fits in the program of study	
Prerequisites: CHM 2045 with a grade of C or above	
3. Course logistics	
Term: Spring 2021	
Class location and time: Distance Learning	
The course has no design content.	
4. Instructor contact information	
<i>Instructor's name</i>	Dr. Richard Granata
<i>Office address</i>	EG-36, Room 173/175, Boca Raton, FL 33431 (part-time office)
<i>Office Hours</i>	ST-01, Room 254, Dania Beach, FL 33004 (primary office) MW 10:00 – 11:00 AM (Boca Raton). Or, by appointment (Dania Beach)
<i>Contact telephone number</i>	954-924-7237 (Dania Beach, FL)
<i>Email address</i>	rgranata@fau.edu
5. TA contact information	
<i>TA's name</i>	TBA
<i>Office address</i>	TBA
<i>Office Hours</i>	TBA
<i>Contact telephone number</i>	561-297-3430 (OME office, leave message).
<i>Email address</i>	jparkinson2017@fau.edu
6. Course description	
Nature of seawater, trace and major constituents, the ocean carbon, phosphorus, and nitrogen cycles; basins, continental shelf, Deep-ocean floor; thermal vents, manganese nodules, marine sediments; marine life; plate tectonics; Estuaries and mixing processes; pollution; corrosion and Bio-fouling; winds, waves, tides, currents and ocean circulation Processes; energy (heat, light, sound); depth, temperature, salinity, and the other physical effects.	
7. Course objectives/student learning outcomes/program outcomes	
<i>Course objectives</i>	To acquire a basic knowledge of the important chemical, physical, geological and biological processes of the marine environment necessary for advancement to higher level marine science/engineering coursework .
<i>Student learning outcomes</i>	ABET objective h/4 – The broad education necessary to understand the impact of ocean engineering solutions in a global and societal context. ABET objective j/4 – A knowledge of contemporary issues involving oceans
8. Course evaluation method	
Attention, response and course tasks: 5% Exam #1: 25% Exam #2: 30% Final Exam: 40%	Note: The minimum grade required to pass the course is C.
9. Course grading scale	

**Department of Ocean and Mechanical Engineering
Florida Atlantic University
Course Syllabus**

Schema: FAU does not post "A+" grades. Percentage-Letter grade assignments: "A", 94% to 100%; "A-", 90% to <94%; "B+", 87% to <90%; "B", 84% to <87%; "B-", 80% to <84%; "C+", 77% to <80%; "C", 74% to <77%; "C-", 70% to <74%; "D+", 67% to <70%; "D", 64% to <67%; "D-", 60% to <64%; "F", 0 to <64%.

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

Makeup tests are given only if there is solid evidence of a medical or otherwise serious emergency that prevented the student of participating in the exam. Makeup exam should be administered and proctored by department personnel unless there are other pre-approved arrangements

Late work is not acceptable.

Incomplete grades are against the policy of the department. Unless there is solid evidence of medical or otherwise serious emergency situation incomplete grades will not be given.

11. Special course requirements

None.

12. Classroom etiquette policy

For the exceptional case of a live class or exam: University policy requires that in order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular phones and laptops, are to be disabled in class sessions. Violations will result in a 2% reduction in the final grade, per occurrence.

Exam rules:

- No cell-phones, I-pads, or other electronic devices are allowed during any of the exams or quizzes.
- No watches capable of taking pictures or communicating with others are allowed during exams.
- If, because of an emergency, there is a need to carry an electronic device to the exam, you must secure permission from the instructor.

Violation of any of the above exam rules will, at a minimum, result in receiving a zero on the exam and a note in the student's academic file..

13. Disability 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)—in Boca Raton, SU 133 (561-297-3880); in Davie, LA 203 (954-236-1222); or in Jupiter, SR 110 (561-799-8585)—and follow all SAS procedures.

14. Honor code policy

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 unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and place high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. See University Regulation 4.001 at

www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf

15. Counseling and Psychological Services Center

**Department of Ocean and Mechanical Engineering
Florida Atlantic University
Course Syllabus**

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/>

16. Required texts/reading

Alan P. Trujillo and Harold V. Thurman, Essentials of Oceanography, Prentice Hall, 12th Ed. (2013), ISBN 978-0-134-29803-0.

Supplementary/recommended readings:
Readings and lecture notes made available on Canvas.

17. Course topical outline, including dates for exams/quizzes, papers, completion of reading

Course Topics:

- 1) Introduction to planet earth.
- 2) Plate tectonics and the ocean floor.
- 3) Marine provinces and marine sediments.
- 4) Water and seawater.
- 5) Air-sea interaction.
- 6) Ocean circulation.
- 7) Waves and water dynamics.
- 8) Tides.
- 9) The coastal ocean.
- 10) Biological oceanography.
- 11) The oceans and climate change.

Exam #1 Wednesday, February 13, 2019

Exam #2 Wednesday, March 20, 2019

Final Exam Wednesday, May 1, 2019