

Marine Science 1 Honors Course Syllabus

Mr. Nardelli Rm. 369

Email: Adam.nardelli@browardschools.com

Website: adamnardellimonarchhigh.weebly.com

Course Description:

Marine Science I Honors is designed to provide an overview of the marine environment including physical, chemical and biological characteristics of our oceans. The course will include theories for the origin of the Earth and life on our ocean planet; a review of the scientific method with examples relevant to marine research; the incentive for and history of early ocean explorations and scientific expeditions; plate tectonic theory and seafloor spreading; seawater chemistry and physics; air-sea interactions of the atmosphere and the oceans; ocean circulation including currents, waves and tides; ocean life including various trophic levels from plankton to mammals and their interactions; taxonomy and systematics of marine life; marine communities and resources; and human effects on the ocean environment.

Educational objectives:

Students will learn that marine science is a large umbrella for many studies related to the marine environment, including subjects relevant to chemistry, physics, geology and biology. South Florida has an enormous wealth of marine resources as a diverse marine ecosystem, and students will understand how marine science relates to our local environment. For example, red tides on Florida's west coast and the resulting impacts on tourism and agriculture, the potential impacts of warming sea surface temperature on hurricane intensity and coral bleaching, and the effects of fishing reef fish. This course is designed to improve students' critical thinking skills and provide practice in measuring, quantifying, graphing and interpreting scientific data. By the end of this course, students will develop a greater appreciation of the value of the Earth's marine resources to the global society, as well as gain a local perspective at how connected they are to South Florida's fragile and bio-diverse marine ecosystems.

Textbook and Course Content:

Textbook: Oceanography: An Invitation to Marine Science 7th Ed. 2010. Garrison, T.

On-line resources for this text may be found through BEEP or at the book companion web site:

<http://www.cengage.com/earthscience/garrison/OIMS7e>

The following topics and chapters follow the Broward School Board curriculum map – instructional focus calendar for Marine Science 1 Honors (<http://beep.browardschools.com/ssoPortal/curriculumwikis.htm>):

Unit 1: The study and history of oceanography– Chapters 1 and 2

Unit 2: Earth structure, plate tectonics, ocean topography and the ocean floor – Chapters 3, 4 and 5

Unit 3: The study of ocean water – chapters 6 and 7

Unit 4: Weather and currents: ocean interactions – chapters 8 and 9

Unit 5: Waves, tides and the interactions with land – chapters 10, 11 and 12

Unit 6: Ocean life – chapters 13, 14, 15 and 16

Unit 7: The Ocean as a resource and human impact – chapters 17 and 18

Suggested Supplies:

Loose leaf binder, composition or spiral notebook, blue or black pens, no. 2 pencils, ruler, calculator, USB memory flash drive, colored markers or pencils.

Evaluation and Grading:

Assessments will be based on tests and quizzes (ca. 60%); participation, homework and class work (ca. 20%) and laboratory reports (ca. 20%). Note that these are general percentages may vary somewhat in

any given marking period. “Word of the Day” (WOD) will be assigned daily at the beginning of class as notebook journal vocabulary, and checked for a grade about every week.

Class Participation:

Participation is a key part of this class. Participation includes: **being in your seat on time; paying attention in class (no talking or texting while I am talking); taking notes; bringing your notebook every day; having paper, pens, and all necessary materials in class every day.**

Every student is given 50 points at the start of the quarter for a participation grade. This equals the same value of a quiz grade. Students can keep the full value of the grade by participating in class discussion, being on time, taking notes and following classroom rules.

Points will be deducted for the following reasons:

1. Excessive tardy
2. Not taking notes
3. Side chatting among fellow students during class discussion and lecture
4. Using cell phones for unrelated class activities or having headphones on during class
5. Standing out of the seat or walking around class when the class is in session
6. Not following directions or listening to instructions

Make-up work:

- Missed exams need to be made up the day the student returns to school, make-ups are given after school. If the student is out for an extended time, an alternate exam may be given.
- Late work – assignments turned in late will lose 10 points per day for every day the assignment is late due to unexcused absences or missed deadlines.
- There are no make-ups for pop quizzes.
- Labs cannot be made up, but no credit will be given.

Missed laboratory experiments may not be made up and will be excused or marked as a zero at the teacher’s discretion. Take care of your health and do not miss class or labs.

Grading:

Your final grade is based upon total number of points achieved divided total points possible. Scale:

A = 90-100

B+ = 87-89

B = 80-86

C+ = 77-79

C = 70-76

D+ = 67-69

D = 60-66

F = 0-59

Expectations:

- Students are expected to perform at their highest academic potential. It is expected that students will take notes and review power-point lectures.
- Students are expected to adhere to all school and classroom rules provided on the first day of class.
- Students are expected to maintain academic integrity. This includes a zero tolerance for any cheating or plagiarism. All students involved will be penalized academically.
- Students are expected to adhere to the knight’s Code of Conduct.
- Students are expected to hand in assignments when they are due.
- Students should not discuss individual grades (Pinnacle) with the teacher during academic instruction.

· Students are expected to notify teacher ASAP of attendance issues and grade discrepancies on Pinnacle (**Please do not wait until the end of a quarter to dispute records**). Students are expected to communicate their individual grade concerns via email or speak to the teacher before or after school. Students who are absent should meet with and/or email the teacher regarding make up work and lecture notes once they return to school (See above regarding make-up work). All powerpoints will be posted on my website. It is the student's responsibility to stay on track with lecture notes, exams, quizzes and class assignments.

Classroom rules:

- Arrive to class promptly and prepared to learn. Do not show up late to class without a pass.
- Show respect to your classmates and your teacher [courtesy is contagious].
- Make responsible choices, i.e, take ownership of your learning, your actions and your words
- **Cell phones** are to be placed on top of your desk, in front of you and faced down. There will be no cell phone usage during class instruction. Do not charge cell phones in the power outlets. Cell phones will be taken away for misuse, and if used during an exam then the exam will be invalidated. *I have the right to confiscate any such devices and parents will be required to retrieve them from the administration.*
USE OF ANY ELECTRONIC DEVICE DURING A TEST WILL RESULT IN AN AUTOMATIC ZERO, NO EXCUSES ACCEPTED.
- ***Students must adhere to all rules in the Broward County Discipline Code Book.***

Consequences for violating rules:

1. *Verbal warning (teacher/student conference)*
2. *Parent contact (I will contact home anytime that I think it will result in a positive influence on the learning environment of my classroom)*
3. *Detention*
4. *Referral to administration (automatic for 5 unexcused absences or failing grade).*

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I have read the syllabus and understand the expectations required to be successful and prepared in this course.

Student name: _____ Period: _____

Student signature: _____ Date: _____

Parent/ Guardian name: _____

Parent/ Guardian signature: _____ Date: _____

TURN OVER AND COMPLETE LAB CONTRACT