BIOL 6000 – Marine Biology

Summer 2013 π Syllabus Class Meets: M-F: 8:00 am – 10:50 am

CATALOG DESCRIPTION: An examination of coastal and oceanic organisms and the factors which structure marine systems.

COURSE OBJECTIVES:

During this course, students will:

a. Describe the physical characteristics and biodiversity of various marine habitats;
b. Identify [illegible] lives.

COURSE MATERIALS:

Textbook: Levinton, J.S. (2009) Marine biology: function, biodiversity, ecology. 3rd Ed. New York, Oxford UP.

Supplemental Book: Lalli and Parsons (1997) Biological Oceanography, an introduction. 2nd Edition. The Open University. http://site.ebrary.com/lib/valdosta/docDetail.action?docID=10251250

Additional readings from primary literature will be posted to Blazeview throughout the semester. Textbook readings are to be completed before class in order to be able to participate in class activities. Homework and exam questions will be based on readings as well as in class material. The supplemental book is available as a free ebook and an additional resources to aide in your learning.

INSTRUCTIONAL ACTIVITIES: Learning is not a passive activity in which you simply absorb and repeat back facts given [illegible]

GRADING PROCEDURES: Letter grades will be assigned based on the following tables:

Course Component	% of Course Grade
Exams	60%
Teaching Session	25%
In Class Activities/Quizzes	15%
Total	**100%**

Final Letter Grade

A: 90 – 100%
B: 80 – 89%
C: 70 – 79%
D: 60 – 69%
F: < 60%

Exams: There are three exams scheduled throughout the semester; each will cover the material from the end of the previous exam through the current exam. Each exam will be worth 20% of your final grade. While exams are not labeled as cumulative, concepts that are connected throughout the course are fair material for exams. The final

ACADEMIC HONESTY POLICY: Cheating, plagiarism (submitting another person's material as one's own, or

Tentative Topics and Reading Assignments

Day	Topic	Textbook Reading	Supplimental
1	Course Introduction and Ecology Primer		
	Life in the Water Column		
1	Properties of seawater	Ch 2;pg 18-22	
2	Life in a Fluid World	Ch 5; Ch 13 pg 297-300	
2	Oceanography	Ch 2; pg 22-29	L&P Ch 2
3	Life in t Plankton	Chh7	L&P Ch 3 e
3	Patterns of Primary Production	Ch 9	
4	Zooplankton and Nutrient Cycles	Ch 10	L&P Ch 4
21πMay	**Exam 1**		
5	Nekton		Handout
6	Waves, Currents and Tides	Ch 2; pg 33-37	
	Life in Intertidal Habitats		
6	Intertidal Communities		L&P Ch 8 . 1
7	The Rocky Intertidal	Ch 14; pg 309-327 Ch 6; pg 118-138	L&P Ch 8 . 2
7-8	Soft Sediment Communties	Ch 14; pg 327-330 Ch 13; pg 283-295	L&P Ch 8 . 4
8	Estuaries	Ch 14; pg 349-355 Ch 2; pg 37-38	L&P Ch 8 . 5
9	Salt Marshes	Ch 14 335-343	
29πMay	**Exam 2**		
	Life in Subtidal Habitats		
10-11	Coral Reefs	1	L&P Ch 8 . 6
11	Seagrass beds and Kelp Forests	1	L&P Ch 8 . 3
12	Deep Sea & Chemosynthetic Communities	1	L&P Ch 8 - 8. .8 9
	Humans and the Sea		
13	Marine Invasions	1	
13	Marine Reserves	1	
14	Marine Fisheries	1	
15	Ocean and Climate Change	1	
6πJun	**Final Exam**		

The schedule of topics is tentative and may be changed, however exam dates are set as written

Note: Chapt 3 provides a basic primer to ecological terms and concepts. If you have not had BIOL 3250, or it's been a while since thinking ecologically, you should review this chapter.