a. Marine Biology
b. Dr. Timothy Henkel (tphenkel@valdosta.edu)
c. Bailey Science Center 2212
d. MW: 11:00am-12:00 pm and by appointment
e. TR: 2-3:15 pm

An examination of coastal and oceanic organisms and the factors which structure marine systems. Prerequisites: BIOL 1107 and 1108

During this course, students will:

a. Describe the physical characteristics and biodiversity of various marine habitats;
b. Identify key components of marine communities and impact on global biogeochemical cycles;
c. Predict adaptations of marine organisms based on environmental characteristics ;
d. Analyze and interpret data examining the factors structuring marine communities;
e. Effectively organize, communicate and apply their knowledge of marine biology to their everyday lives.

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

Additional readings will be posted to Blazeview throughout the semester.

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 from the text as well as in class material.

Learning is not a passive activity in which you simply absorb and repeat back facts given by an instructor. Rather, learning requires you to take an active role. To truly understand science you must construct your own personal interpretation of the concepts and store them away in a form that is meaningful to you.

Facts and vocabulary are important to any discipline, though you are expected to go beyond simple memorization of details and interconnect those facts to concepts, applications and problems; to ask meaningful questions; to test well developed hypotheses; to develop a range of intellectual abilities,

Letter grades will be assigned based on the following tables:

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: Cheating, plagiarism (submitting another person's material as one's own, or doing work for another person which will receive academic credit) are all impermissible. This includes the use of unauthorized books, notebooks, or other sources in order to secure or give help during an assignment or exam, the unauthorized copying of examinations, assignments, reports, or term papers, or the presentation of unacknowledged material as if it were your own work. Students are responsible for knowing, understanding and complying with the VSU Student Code of Conduct, in Appendix A of the Student Handbook (http://www.valdosta.edu/stulife/handbook/ )

If substantial evidence exists for a violation of this policy, *the student(s) involved will receive a grade of 'F' for the course* and an official record will be filed following the Academic Integrity Response along with a letter to the Dean of Students (http://www.valdosta.edu/academic/AcademicHonestyPoliciesandProcedures.shtml).

A classroom policy will be developed by the course during the first class meeting and will be the standard for behavior in the class. The policy will be posted to Blazeview and enforced during class sessions. Violations with the policy will result in removal from the class session, and repeated occurrences may result in grade reduction or permanent removal from the course.

Students requesting classroom accommodations or modifications due to a documented

| | | Chapter |
|---|---|---|
| 8-Jan | Course Introduction and Ecology Primer | 3 |
| | Properties of seawater | 2,5 |
| | Oceanography | 2,5 |
| | Life in the Plankton | 7 |
| | Patterns of Primary Production | 9,10 |
| | Zooplankton and Nekton | 4,8 |
| | Microbial food web | 9 |
| 5-Feb | Exam 1 | |
| | Waves, currents, and tides | 2,5 |
| | Intertidal Communities | 11,12 |
| | The Rocky Intertidal | 13,14 |
| | Estuaries | 14 |
| | Salt Marshes to Mangroves | 14 |
| 5-Mar | Exam 2 | |
| | Coral Reefs | 15 |
| | Seagrass beds and Kelp Forests | 15 |
| | Deep Sea Communities | 16 |
| | Chemosynthetic Communities | 16 |
| | Polar Seas | 16 |
| 9-Apr | Exam 3 | |
| | Marine Invasions | 17 |
| | Marine Reserves | 17 |
| | Marine Fisheries | 18 |
| | Ocean and Climate Change | 19 |
| 25-Apr | | |
| 1-May | FINAL Exam 2:45pm-4:45pm | |