

**ZOOL 485 Special Topics in Zoology: Marine Biology**  
**Spring 2015**

**Instructor:** Dr. Ed Heist; Life Science III, Room 1019; edheist@siu.edu; 453-4131  
Office Hours: Mondays and Wednesdays, 9-10:30 AM and by appointment.

**Venue:** LS II Room 369, Tuesdays and Thursdays 10:00-12:00

**Course Description:** An introduction to marine biology including physical and chemical characteristics of marine ecosystems, biology of important marine organisms, and descriptions of specific marine habitats ranging from coastal to pelagic and the surface to the deep benthic. The course will include a mandatory 5-day field trip to a coastal marine station over spring break which will incur a cost to students of approximately \$400. There will be one two-hour lecture and one two-hour lab each week.

**Textbook:** Morrissey, J. F. and J. L. Sumich. 2012. Introduction to the Biology of Marine Life: 10th Edition. Jones and Bartlett. (required).

**Lab Manual:** Dudley, G. H., J. L. Sumich, and V. L. Cass-Dudley. Laboratory and Field Investigations in Marine Life: 10<sup>th</sup> Edition. Jones and Bartlett. (required).

**Grade Scale:** There will be three 100-point written examinations based on readings and lectures and a 100- point laboratory practical. There will be an additional 200 points for graded laboratory write-ups associated with in-class labs and the field trip. Grade will be based on percentage of 600 total points: A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%, F = 0-59%

**Late Work Policy:** Make-up exams will be granted only for extremely emergencies. Participation in the field trip is mandatory. Failure to attend and participate in laboratory and/or field trip activities will result in a grade of "F."

**Incompletes:** An *INC* is assigned when, for reasons beyond their control, students *engaged in passing work* are unable to complete all class assignments. An *INC* must be changed to a completed grade within a time period designated by the instructor but not to exceed one year from the close of the term in which the course was taken, *or graduation*, whichever occurs first. Should the student fail to complete the course within the time period designated, not to exceed one year, or graduation, whichever comes first, the incomplete will be converted to a grade of *F* and the grade will be computed in the student's grade point average. Students should not reregister for courses in which an *INC* has been assigned with the intent of changing the *INC* grade. Re-registration will not prevent the *INC* from being changed to an *F*.

**Attendance:** Students will be permitted one unexcused absence (not including the field trip) per semester. Each additional absence will result in 10 points deducted from the final point total. This course will adhere the University Policy of Accommodating Religious Students

**Class Preparation:** Students are expected to have read the required reading prior to each class so that they will better understand the lecture and be able to ask knowledgeable questions.

**Mobile Technology Policy:** Students may use laptops, tablets and other mobile devices so long as that use is not disruptive to other students.

**Disruptive Behavior Policy:** If students become disruptive either personally or through disruptive use of cell phones or other mobile technology, they will be warned once. If disruptions continue, students will be asked to leave and will be marked absent for the day.

**Statement of Inclusive Excellence:** SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ from you is an important part of your education in this class, as well an essential preparation for any career.

**Plagiarism:** Plagiarism is an act of academic dishonesty. The instructor assumes that all students understand what is meant by "plagiarism". Those unfamiliar with this term should study the materials available on SIUC's Communicating Across the Curriculum website ([www.cac.siu.edu/plagiarism.htm](http://www.cac.siu.edu/plagiarism.htm)).

**Emergency Procedures:** SIU is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIU Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in every building on campus and in the Emergency Response Guideline pamphlet. It is also available on BERT's website at <http://www.bert.siu.edu/> and on the Department of Safety's website [www.dps.siu.edu](http://www.dps.siu.edu).

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.

**Lecture and Lab Schedule. Spring 2015**

Date	Topic	Lecture Reading	Lab Manual
20-Jan	No Class		
22-Jan	Ocean as Habitat	Ch. 1	
27-Jan	Patterns of Associations	Ch. 2	
29-Jan	Lab 1 -- Asking Questions, Properties of Seawater		1, 2
3-Feb	Primary Production in the Sea	Ch. 3, 4	
5-Feb	Lab 2 -- Taxonomic Classification and Identification		3
10-Feb	Microbial Heterotrophs and Invertebrates	Ch. 5	
12-Feb	Lab 3 -- Phytoplankton and Photosynthetic Pigments		5, 7
17-Feb	Exam 1		
19-Feb	Lab 4 -- Lower Marine Invertebrates		8
24-Feb	Marine Vertebrates I: Fishes and Reptiles	Ch. 6	
26-Feb	Lab 5 -- Marine Mollusks		9
3-Mar	Marine Vertebrates II: Seabirds and Marine Mammals	Ch. 7	
5-Mar	Lab 6 -- Marine Arthropods, Orientation for field trip		10, Handout
3/9-3/12	Field Trip		
17-Mar	Estuaries	Ch. 8	
19-Mar	Wrap-up from field trip		Handout
24-Mar	Coastal Seas	Ch. 9	
26-Mar	Lab 7 -- Echinoderms		11
31-Mar	Exam 2		
2-Apr	Lab 8 -- Zooplankton		12
7-Apr	No Class		
9-Apr	No Class		
14-Apr	Coral Reefs	Ch. 10	
16-Apr	Lab 9 -- Cartilaginous Fishes		13
21-Apr	The Open Sea	Ch. 11	
23-Apr	Lab 10 -- Bony Fishes		14
28-Apr	The Deep Sea Floor	Ch. 12	
30-Apr	Lab 11 -- Marine Mammals		15
5-May	Harvesting Living Marine Resources	Ch. 13	
7-May	Lab Practical		

**Additional Resources:** Your text provides access to a companion web page (<http://biology.jbpub.com/marine10e/>) with additional resources including animated flashcards, chapter outlines, and study quizzes.

**Supplementary Assistance:** With the cooperation of SIU's Disability Support Services (DSS), each student who qualifies for reasonable supplementary assistance has the right to receive it. Students requesting supplementary assistance must first register with DSS in Woody Hall B-150, (453-5738) or <http://disabilityservices.siu.edu/>

Notice: If you have any type of special need(s) or disability for which you require accommodations to promote your learning in this class, please contact me as soon as possible. The Office of Disability Support Services (DDS) offers various support services and can help you with special accommodations. You may wish to contact DDS at 453-5738 or go to Room 150 at Woody Hall to verify your eligibility and options for accommodations related to your special need(s) or disability.

**Email Policy:** Email is an important means of communication and it will be assumed that you check your SIU email regularly for information and updates regarding the course. The official SIUC student email policy can be found at <http://policies.siu.edu/policies/email.htm>

**Saluki Cares:** The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. To make a referral to Saluki Cares click, call, or send: <http://salukicare.siu.edu/index.html>; (618) 453-5714, or [siucares@siu.edu](mailto:siucares@siu.edu).