



Northeastern
UNIVERSITY

Marine Science Center

East Point, Nahant MA 01908

SUMMER MARINE BIOLOGY PROGRAM 2006 COURSE OFFERINGS

For update on course dates and course offerings contact the program office at the phone number, address, or internet site listed on the back of this flyer

INTRODUCTION TO MARINE BIOLOGY BIO U151 4 SH Credits

Emphasizes oceanography, the marine environment and the adaptations of marine organisms to the unique properties of the ocean. The course begins with a survey of the major physical, chemical and geological characteristics of the ocean - setting the stage for investigations of the ecology and behavior of the major groups of marine life. Prospective field trips include the rocky intertidal, salt marshes, oceanographic cruises aboard the *R/V Mysis*, and a whale watch to Stellwagen Bank. No prerequisites.

Offered evenings: Monday, Thursday, 5:30 - 9:00pm; May 11 - June 26

DIVING RESEARCH METHODS BIO U589 or BIO G289 2 SH Credits

A field-oriented course designed to introduce SCUBA certified students to techniques used in the study of biology, ecology and physiology of subtidal organisms. Current underwater research methods are learned and implemented in underwater exercises. Potential topics for lectures and labs include: diving physiology, sampling design, statistical analysis, underwater video and photography, population censusing methods, measurement of currents and hydrodynamic forces, underwater telemetry, and use of submersibles in research. Students supply their own dive gear except tanks. Research diver and O₂ administration certifications are available. This course fulfills AAUS scientific diver training requirements. Scuba certification and extensive dive physical are required.

Offered Fridays, 9:00 am – 4:00 pm; May 12 – June 23.

MARINE BIRDS & MAMMALS BIO U509/510 or BIO G209/210 3 SH Credits

A comparative study of marine birds and mammals, and the adaptations that enable these vertebrates to exploit the marine environment. The course is field-oriented and emphasizes research on physiology, ecology, behavior, zoogeography and phylogeny. On field trips we visit coastal habitats for shorebird studies and offshore waters to study cetacean behaviors and adaptations of New England species. Students should have a solid science background. All students should bring binoculars.

Offered Fridays, 9:00 am - 4:00 pm; July 7 – Aug 18

SUMMER MARINE BIOLOGY PROGRAM

2006 APPLICATION INFORMATION

Application and Registration

Undergraduate students are accepted on a rolling admissions policy. Students should submit the attached Application for Admission, one academic letter of recommendation and college transcripts to: Summer Marine Biology Program, Marine Science Center, East Point, Nahant, MA 01908. Plan to register at Nahant on the first day of your class. Call (781) 581-7370 x-311 for further information.

Students wishing to receive graduate credit must have previously earned an undergraduate diploma, and need to complete an additional application for "Special Student" status (\$50) with the Department of Biology in the Graduate School of Arts and Sciences by April 1, 2006. Go to www.cas.neu.edu/graduate for online application forms.

Housing & Transportation

The Marine Science Center provides limited housing, and can usually arrange for campus housing in Boston. In addition, private housing may be obtained in the local area. Van transportation is provided to and from the Blue Line Wonderland T-stop.

Course costs

Summer 2006 course tuition will be \$1,185/SH for undergraduate credit, and \$875/SH graduate credit.

For more information call (781) 581-7370 x-311, or check our web site at:<http://www.marinescience.neu.edu>

-----detach and return-----

Application for Admission to the 2006 Summer Marine Biology Program

Today's Date _____ Social Security Number _____

Name _____ Last First
Middle Initial

Mailing Address _____ Street
City State Zip

Phone (____) _____ Email _____

University or School _____ Present Status _____ (fr, so, jr, sr,
occupation)

Major _____ Are You Scuba Certified? _____
(Type of certification) Indicate

which course(s) you would like to enroll in:

Introduction to Marine Biology _____ Marine Birds & Mammals _____ Diving Research Methods _____
(undergraduate credit only)

Will you require housing? _____

I wish to earn graduate credit in the Summer Marine Biology Program, and understand that I will not be accepted into the Summer Program until after a positive decision has been reached by the Department of Biology in the Graduate School of Arts and Sciences.

Signature: _____ Date: _____