

Whale of a Mystery

Students who are entering grades 6, 7, 8 or 9 in the fall of 2008 are invited to apply for this exciting and educational week-long summer program. Using investigative laboratory techniques and equipment, participants will solve a forensic mystery related to the hunting of endangered Cetacean (whale and dolphin) species. Students will work in teams to conduct laboratory research, develop a poster, and present their results orally at a public poster session.

Registration Fee

The fee for the five-day program is \$250 per student, which does not include lunch or transportation. A number of need-based scholarships are offered. Separate scholarship application forms, including teacher references, are required.

Space is limited.

Register soon!

For more information please visit the BSC CityLab website at

<http://webhost.bridgew.edu/citylab>
or call 508-531-2635,
or email us at citylab@bridgew.edu.



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BSC CityLab
Moakley Technology Center, Room 308
Bridgewater State College
Bridgewater, MA 02325



Whale of a Mystery

Biotechnology Summer Program for
Middle School
Students at
Bridgewater
State College



- Who:** Students entering grades 6, 7, 8 or 9 in the fall of 2008
- When:** Session I, July 7-11, 2008, or Session II, July 14-18, 2008
- Where:** CityLab
Moakley Technology Center
Bridgewater State College
- Time:** 8:30 am - 4:00 pm
Monday through Friday

More information
can be found on the
BSC CityLab website:



<http://webhost.bridgew.edu/citylab>

Program Overview

BSC CityLab is a biotechnology learning laboratory for students and teachers, located on the campus of Bridgewater State College (BSC). Throughout the school year, BSC CityLab hosts middle and high school classes from area school districts for outreach programs on topics ranging from health and disease to forensics.



Faculty of the BSC Biology, Chemistry and English departments developed the *Whale of a Mystery* summer offering in 2001 through a grant from the National Institutes of Health (NIH). Since then, more than 400 middle school students have participated in the program. The interdisciplinary nature of the content and emphasis on group work help make *Whale of a Mystery* a strong academic opportunity in a relaxed atmosphere. Students in each one-week session are exposed to science professionals, an array of laboratory instruments, the college campus, a whale watch, and important social interactions with other like-minded students, both younger and older.

Program Schedule at a Glance

Monday	Students are "hired" to work at <i>Bridgewater Animal Forensic Lab</i> (BAFL) and begin introductory lab work; the first case arrives!
Tuesday	Lab work continues
Wednesday	Whale Watch from Plymouth
Thursday	Teams research their species for poster and oral presentation (<i>Whale watch rain date</i>)
Friday	Teams finalize and practice presentations for the afternoon <i>Congressional Hearing</i> with family and friends

Program Support

The BSC CityLab program is part of Bridgewater State College's Center for the Advancement of Science Exploration (CASE). Initial funding for the program was provided by the National Center for Research Resources of the National Institutes of Health (NIH). For further information about CASE and CityLab, please call Kayla Pelchat at 508-531-2635.



Department of Health and Human Services • National Institutes of Health

Supported by a Science Education Partnership Award (SEPA) from the National Center for Research Resources



A Forensic Mystery

Calling middle school science students! The Bridgewater Animal Forensic Laboratory (BAFL) needs you! As you know, **forensics** involves the use of science to collect evidence and solve crimes. Every year, endangered or protected species of whales and dolphins are hunted and their meat is illegally sold in foreign fish markets. Our field agents find and confiscate suspicious samples and send them to us for processing. Using the **protein fingerprinting** technique we have perfected at BAFL, the meat can be analyzed to determine which species each sample is from. Our summer case load is heavy, and we need the help of dedicated young scientists like you.

If you can join us, you will help solve a "mystery" with the latest biotechnology techniques and scientific equipment used in biotechnology research labs.

Learn to use a micropipette!



In addition to lab work, you will learn about New England's whales through lectures, library research and an actual whale watch out of Plymouth Harbor. You and your team members will create presentations to defend your scientific studies on the last day. Family and friends will be invited to attend!