



BSC and SEPA* Grant Offering Summer 2007 Graduate-level course for Middle School Teachers

Bridgewater State College is offering BIOE 513-GR1, DNA, Protein and Cell Biology in the *Whale of a Mystery*, a Biology course directed to Middle School Life Science topics as determined by the Massachusetts Curriculum Frameworks. Earn three graduate credits and learn how to enhance teaching and learning using the BSC CityLab model applied to in-school thematic investigations and curriculum that includes sciences, mathematics and the language arts.

Measurement

These modules develop measurement and explore density of objects and fluids using micropipets and balances. Topics include metric conversions, accuracy of instrumentation.

Cellular Biology

Tissue Identification. This module is based on the structure of cells, the specialization of cells and the relationship between their structure and function. Techniques include phase and fluorescent microscopy.

Protein Biology

Protein Quantitation for Whale of a Mystery. This module is an updated and thematic version of the popular Boston University School of Medicine's CityLab *Crucial Concentration* protein quantitation assay. **Protein fingerprinting** in the study of endangered animals. Techniques include polyacrylamide gel electrophoresis.

Molecular Biology

Using DNA to Discover Phylogenetic Relationships. This module is an introduction to phylogenetic relationships using computer searches of DNA databases (BLAST searches) and analysis of DNA homology between related organisms.

Theory and concepts behind these modules are included as well as the introduction of Lending Lab materials. Lending Labs may be supported in specific school districts following completion of the course.

DATES: June 25, 26, 27, and 28, 9am-4pm each day. Also required is attendance for one day during the July 2007 Whale of a Mystery summer program for middle school students. In addition, two mandatory follow-up half-day classes will be scheduled on September 29th and November 3th, 8am-12pm.

LOCATION: Bridgewater State College CityLab, room 312 in the Moakley Technology Center

COST: \$150 for three graduate credits. Participants will also keep distributed materials. *A NIH grant is subsidizing the cost of this course.*

**For further information contact BSC CityLab at 508-531-2635 or CityLab@bridgew.edu
To learn more about BSC CityLab Activities visit our web site at webhost.bridgew.edu/CityLab.
To register for this course contact 508-531-6010 or OffCampus@bridgew.edu**

Enrollment is limited. Please register early.

*SEPA, is a Science Education Partnership Award through the National Center For Research Resources, National Institutes of Health

***REQUIRED FIELDS
PLEASE PRINT**

0 _____
Banner ID

OR _____ - _____ - _____
Social Security Number

*NAME- Last First Middle Initial

*ADDRESS- Street #, P.O. Box Apt. #

*City/Town State ZIP
NOTE: BSC students with an address or phone number change must submit a separate Address Change Form.

*Home Phone: (____) _____ - _____
Daytime Phone: (____) _____ - _____
Date of Birth ____/____/____
Month Day Year

Prior education completed
 High School Graduate
 Associate's Degree
 Bachelor's Degree
 Master's Degree
 CAGS

Have you been officially accepted in a program at BSC? NO YES
If yes, check one below:
 Bachelor's (see shaded area below)
 Licensure Program
 Master's
 CAGS or Post Master's

PLEASE PRINT:
*Primary E-mail address _____
Alternate E-mail address _____

I certify that all of the answers given on this form are correct and complete to the best of my knowledge. I understand that false statements could result in my dismissal from Bridgewater State College.

*Signature: _____ Today's Date: ____/____/____

Please note the district in which you teach: _____
Grade level you teach: _____
Enrollment limited – Please register early

PLEASE NOTE: You will NOT be registered for courses until payment is received. Thank you.

Course#	Section #	Credit Level		COURSE INFORMATION	PLEASE SELECT
		U	G		
BIOE 513	GR1			DNA, Protein and Cell Biology in the Whale of a Mystery	
				DATE: June 25, 26, 27, 28 (9am-4pm); a day TBA in July; September 29 and November 3 (8am-12pm)	
				LOCATION: BSC, CityLab, Moakley 312	
				COST: \$150 for three graduate credits (participants will also keep materials distributed in class)	

Please fill out credit card information below or send a check payable to Bridgewater State College to:

Faxed forms accepted with credit card information only to: 508-531-6162

Registrations - Off Campus Programs
Bridgewater State College
Maxwell #21
Bridgewater, MA 02325

Registration Deadline:
June 11, 2007

Optional Survey Information
Please check appropriate box.
 American Indian or Alaskan Indian
 Black, Non-Hispanic
 Asian or Pacific Islander
 Hispanic
 Cape Verdean
 Non-Resident Alien
 White, Non-Hispanic
 Other
SEX M F

Note: All tuition waiver and other payment forms must be submitted at the time of registration for credit to be applied.
 MasterCard Discover Card VISA Check Waiver (type _____) Other _____
(Make checks payable to Bridgewater State College)
MasterCard, VISA and Discover Card Only
You may pay charge through one of these three credit cards. To do so please provide the information requested.
Account Number: _____/_____/_____
Expiration Date: ____/____/_____
Student Signature: _____
Billing address zip code of cardholder: _____

Please calculate Payment below:
Tuition and Fee Total \$ _____
Parking Decal Fee \$ _____
(Payable once per academic year)
Total payment Enclosed \$ _____

Registration forms without payment information will be returned.