

Teacher Update Course in Integrative Biology (SOL BIO.5)

Course Description:

The Howard Hughes Medical Institute, a non-profit medical research organization dedicated to the advancement of knowledge in the basic biomedical sciences, funds basic research as well as educational and outreach initiatives related to science education. As part of a grant from the Howard Hughes Medical Institute to the College of William and Mary, the College will offer a series of teacher update courses. The goal of these courses is not only to provide teachers with current information in a given area of science, but to integrate this knowledge with the Virginia Standards of Learning in a way that will be directly applicable to the classroom.

Beginning in February we will offer an integrative biology course that will concentrate on the material covered in Standard of Learning BIO.5, namely life functions of animals. In particular, the course will focus on four aspects of BIO.5: comparative metabolic activities; analyses of organisms' response to the environment; maintenance of homeostasis; and human health issues, body systems and life functions. A major focus of the course will be experimental design, that is, designing experiments that illustrate basic concepts in life functions and physiology. In conjunction with the instructor, the teachers will design a set of experiments with materials provided. These modules will then be available for subsequent use in the classroom; upon request, necessary equipment will be loaned and all reagents and materials will be provided at no cost to the teachers. It is hoped that the College will serve as a continuing resource for science education. Please see our Web site (http://www.wm.edu/HHMI/hhmi_uc.html) for materials available from last year's course on Molecular Biology. We have also sent a sheet describing molecular biology/biotechnology materials available to middle or high school teachers at no cost.

Participation in the course will include:

- ! Free tuition
- ! Free textbook and course materials
- ! Access to prepared modules
- ! One graduate biology credit

Basic Information:

Where: The College of William and Mary, 315 Millington Hall (Biology Department)

When: 6-8pm, on the following Tuesdays: 2/8, 2/15, 2/22, 2/29, 3/14, 3/21, 3/28

Instructor: Eric Bradley (in consultation with Ron Giese)

Eligibility: Middle and High School Science Teachers

Credit: One graduate biology credit

Registration: Completion of the attached page

Deadline: Return attached form by January 4, 2000
To: M. Saha, Dept. of Biology, Millington Hall,
College of William and Mary, Williamsburg, VA 23187

Questions ???

Please feel free to contact the instructor with any questions at 221-2220 (office), 565-3870 (home), or via e-mail (elbrad@facstaff.wm.edu).

Registration Form for Update Course in Integrative Biology (SOL BIO.5)

Name:

School/District:

Courses You Generally Teach:

Phone (School):

Phone (Home):

Home Address:

Reasons for Interest in Course:

Please return this form by January 1, 2000 to:

Margaret Saha
Dept. of Biology
Millington Hall
College of William and Mary
Williamsburg, VA 23187