TRANSCRIPTION OF:
Evaluation of General Education Outcomes Area C -- Natural Sciences
(open May 2013 through August 2013
sent to entire CCSF community AND linked from SLO website main page)

This survey is intended for receiving feedback on general education outcomes from Area C -- Natural Sciences, which are under review as part of the Spring 2013 college-wide assessment. After this survey closes, we will pull together all the comments and use them to make further changes in the Fall (within the work group) before bringing our suggested revisions to the Academic Senate and Bipartite for approval.

Title V describes Area C course as "those which examine the physical universe, its life forms, and its natural phenomena. To satisfy the general education requirement in natural sciences, a course shall be designed to help the student develop an appreciation and understanding of the scientific method, and encourage an understanding of the relationships between science and other human activities. This category would include introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, meteorology, oceanography, physical geography, physical anthropology, physics and other scientific disciplines."

Current GE Area C Outcomes:
Upon completion of this coursework, a student will be able to:
1. Communicate scientific ideas and theories effectively
2. Demonstrate an understanding of the scientific method
3. Apply models to explain the behavior of commonly occurring phenomena.

Below are new, suggested outcomes (the first draft) that come from work completed this semester by the GE Outcomes C work group (reviewing general education outcomes present at transfer colleges and other community colleges throughout the state and nation):

Proposed GE Area C Outcomes:
Upon completion of this coursework, a student will be able to:
1. Apply scientific inquiry and investigation of evidence to critically evaluate scientific arguments (and the limits of scientific knowledge). [do we need the section in parentheses?]
2. Apply scientific principles, theories, or models to explain the behavior of natural phenomena.
3. Apply scientific knowledge and reasoning to human interaction with the natural world and issues impacting society.
4. Communicate scientific ideas and theories effectively (Note: this may not be necessary given the above 3?)

Tell us who you are
Please provide your contact information so we can contact you if we would like to get more information on any of your comments. *
Email address preferred

Please indicate your job classification at CCSF relative to these GE Area Outcomes (Area C) -- Natural Science. *
Administrator -- related to Area C
Administrator -- outside Area C
Faculty -- teaching in Area C
Faculty -- teaching outside Area C
Faculty -- counselor
Faculty -- librarian
Do you currently teach (or have you ever taught) one of these classes? *

Anatomy 14, 25 | Anthropology 1 | Astronomy 1, 4, 14, 16*, 17, 18, 19 | Biology 9, 11, 15, 20, 30, 31, 32, 40, 100B | Biotechnology 115, 120 | Botany 10 | Chemistry 32, 40, 101A, 103A, 110 | Ecology 20 | Energy 3 | Genetics 10, 15 | Geography 1, 49 | Geology 10, 11, 18, 20A, 20B, 20C, 25, 30 | Interdisciplinary Studies 9 | Microbiology 10, 12, 51* | Nutrition 12, 51*, 52 | Oceanography 1 | Ornamental Horticulture 76, 77 | Paleontology 1 | Physical Science 11 | Physics 2A, 4A, 10, 40, 41 | Physiology 1, 12, 67 | Zoology 10

Yes
No

GE Outcomes Area C -- #1
1. Apply scientific inquiry and investigation of evidence to critically evaluate scientific arguments (and the limits of scientific knowledge).

Please provide your preference for the wording of this proposed outcome:

1. Apply scientific inquiry and investigation of evidence to critically evaluate scientific arguments (and the limits of scientific knowledge).
1. Apply scientific inquiry and investigation of evidence to critically evaluate scientific arguments.

Please provide your feedback on the above proposed outcome:

Acceptable
Needs work (if you choose this option, please explain further below)

Please provide any additional details or comments on the above proposed outcome:

GE Outcomes Area C -- #2
2. Apply scientific principles, theories, or models to explain the behavior of natural phenomena.

Please provide your feedback on this proposed outcome:

Acceptable
Needs work (if you choose this option, please explain further below)

Please provide any additional details or comments on the above proposed outcome:

GE Outcomes Area C -- #3
3. Apply scientific knowledge and reasoning to human interaction with the natural world and issues impacting society.

Please provide your feedback on this proposed outcome:

Acceptable
Needs work (if you choose this option, please explain further below)

Please provide any additional details or comments on the above proposed outcome:

GE Outcomes Area C -- #4
4. Communicate scientific ideas and theories effectively.

Please provide your feedback on this proposed outcome:

Still valuable and necessary even with previous 3 outcomes.
No longer necessary, if the above 3 outcomes are approved.

Please provide any additional details or comments on the above proposed outcome:

ADDITIONAL COMMENTS?

If you have any additional comments, please enter them below.