

End-of-Program Review 2007-08

Compelling Intellectual Experience(s) and Successful Pedagogical or Innovative Practice Scientific Inquiry Programs

		For purposes of helping reflect on the range of teaching practices and experiences at the college, please identify the most compelling intellectual experience(s) in your program or the most successful or innovative pedagogical practice in your program.
Program name	Faculty	
Algebra, Algorithms and Modeling: An Introduction to Mathematics for Science and Computing	Ab VanEtten	Development and analysis of a predictive mathematical model in an area of the student's choosing.
Foundations of Health Science	Rebecca Sunderman, Benjamin Simon, Visitor	Much of our work in medical ethics focused on topics pertaining to human subject testing, and end of life issues. As an application of these topics groups of students designed, submitted proposals to the Human Subjects Review Board, implemented, and prepared a summary of an experiment using human subjects. This project incorporated individual work, team work, participation as a researcher, participation as a research subject, and interaction with the human subjects review board.
Logical Foundations for Science and Computing	Neal Nelson	The integration of mathematics and the history of science, including reasoning and logic.
Thinking Straight	David Paulsen	The use of film in conjunction with an extensive discussion of ethical theory. The films were chosen to feature complex moral choice.
Computer Science Foundations	Neal Nelson, Richard Weiss	Use of workshops to develop problem-solving skills and inquiry-based learning, followed by lab and homework assignments. Independent collaborative software projects.
Models of Motion	Mario Gadea, Ab VanEtten	Independent research --> construction of prototypes/engines/machines --> feedback --> improvement
Molecule to Organism	Paula Schofield, Andy Brabban, Nancy Murray	Student designed 10-week lab research project in spring. Winter ending with a PowerPoint presentation.
Energy Systems	EJ Zita	Student research projects. In a series of fall workshops, students learned to articulate open research questions and design tests for their hypotheses. In winter most teams constructed research in the lab or in the field to investigate their questions. Results are online at http://academic.evergreen.edu/curricular/energy/0708/home.htm .

Genes and Development	Donald Morisato	<p>The most successful component of the program involved the weekly seminar on a journal article, which was chosen to highlight a particular concept or experimental approach. In addition to completing written responses to questions about each paper, students discussed the article in pre-seminar and seminar sessions, and then collaborated with their workshop group to present one of the figures to the entire class. The most innovative component involved the close reading and textual analysis of novels. This practice allowed advanced science students to incorporate literature into their undergraduate experience.</p>
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