

Alignment Between the University General Education Policy and Student Learning Outcomes Assessment Goals and Objectives

<p>B.4. Special Topics in Science and Technology</p> <p>Courses: Biology 216 (2 units) Biology 217 (2 units) Chemistry 205 (2 units) Computer Science 121 (2 units) Computer Science 124 (2 units) Geology 210 (2 units)</p>	
<p>GE Policy</p>	<p>Outcomes Assessment Learning Goals</p>
<p>The goal of this section will be to create an awareness of the importance of the natural sciences to a modern technological society through the examination of an important current issue from a perspective that relates scientific principles to the societal impact of the problems under examination.</p> <p>a. Courses meeting this objective shall be in a small lecture/discussion format with laboratory optional. Each course shall deal with a case study of a current scientific, health-related, or technological issue relevant to the natural sciences. The issue must have substantial societal impact. An issue that is primarily of theoretical interest will not be appropriate. Suitable topics might include, among others, the biology of sexually transmitted diseases, consumer chemistry, technology and environmental pollution, computer-based technology, societal uses of nuclear technology, and the exploration, colonization and industrialization of space.</p> <p>c. Courses meeting this objective will examine the impact of the specific issue on society, the important principles in the natural sciences underlying that particular issue, the societal and historical context of the</p>	<p>Upon Completion of this requirement students will be able to:</p> <p>Goal 4: After completion of a course in the B4 area, students will be able to apply the principles, concepts and methods of the natural sciences to everyday life. Specifically, students will be able to examine, from a scientific perspective, an important current scientific, health-related, or technological issue and to relate scientific principles to the societal impact of the issue under examination. In particular, students will be able to</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1. Find and evaluate information relevant to the scientific understanding of a particular contemporary issue 2. Identify the important principles in the natural sciences underlying that particular issue 3. Recognize the limits of science when applied to problems in the natural world. 4. Explain the societal impact and historical context of the issue 5. Discuss the interdependence between science, technology and modern society, including the social, political and economic aspects of that society (e.g., how modern society and the economy depend on science and technology, and how the development of science and technology are influenced by social, economic and political forces; how technology is the result of scientific development, and how technology enables the further development of science).

issue, and the dependence of society on scientific and technological developments as they relate to the issue being studied.

- d. Where appropriate, such courses shall consider the impact of the issue under discussion on minorities and on the roles, conditions and experiences of men and women.