

**California State University, Fresno**  
**General Education Scoring Guide for Integrative Science**

| <b>Scoring Level</b>    | <b>Science and Society</b>  | <b>Basic Concepts and Fundamental Principles</b>                       | <b>Scientific Approach</b>   | <b>Nature of Science</b>  |
|-------------------------|---|--|--|---|
| <b>4 - Accomplished</b> | Develops and defends an informed position, integrating values, science, and technology.   | Integrates and applies basic scientific concepts and principles.       | Demonstrates comprehension of the scientific approach; illustrates with examples                   | Demonstrates scientific reasoning across multiple disciplines.  |
| <b>3 - Competent</b>    | Correctly describes perspectives concerning the scientific aspects of a societal issue.   | Shows clear comprehension of basic scientific concepts and principles. | Accurately expresses concepts relating to the scientific approach                                  | Interprets and relates scientific results in a way that shows a clear recognition of the nature of science. |
| <b>2 - Developing</b>   | Recognizes the place of science in human affairs, but is unable to communicate its roles. | Able to state basic scientific concepts and principles.                | Uses vocabulary related to scientific methods in a rote manner or showing simple conceptualization | Provides simplistic or incomplete explanations of the nature of science.                                    |
| <b>1 - Beginning</b>    | Does not visualize a role or need for science in human affairs.                           | Lacks understanding of basic scientific concepts and principles.       | Shows minimal understanding of scientific methods  | Does not distinguish between scientific, political, religious, or ethical statements.                       |

<http://www.csufresno.edu/cetl/assessment/> (click on IBScoring.doc)