Natural Sciences (S, SL or B) Learning Outcomes

*Use this **interactive template** to ***describe how*** each of the specific learning outcomes will be addressed and assessed for this content area. The outcomes were designed to incorporate the Cardinal Core Program's overarching skills of critical thinking, quantitative reasoning, effective communication, and the understanding of historical, social and cultural diversity. The description of how the course meets the outcome and the subsequent assessment should reflect these key intellectual skills.

Course I.D: [type here]
Course Title: [type here]
Cardinal Core Course Code(s): [type here]

Natural Sciences (S, SL or B)
Natural Sciences are concerned with understanding the laws of nature and the physical world. Students who satisfy this requirement will ***demonstrate*** that they are able to do all of the following:

1. **Demonstrate an understanding of the nature and methods of science inquiry.**

   Outcome (specify how this course meets the outcome stated above)

   [type here]

   Assessment (Assessments can include essays, quizzes, tests, homework, class discussion, journals, group projects, presentations, labs, research papers, response papers, field work, service learning, independent study, etc. The assessment description should demonstrate a connection to how the course meets the outcome.)

   [type here]

2. **Apply scientific principles: to interpret evidence, to make predictions, and/or to explain cross-cutting concepts in one or more of the sciences.**

Outcome (specify how this course meets the outcome stated above)

[type here]

Assessment (Assessments can include essays, quizzes, tests, homework, class discussion, journals, group projects, presentations, labs, research papers, response papers, field work, service learning, independent study, etc. The assessment description should demonstrate a connection to how the course meets the outcome.)

[type here]

3. **Explain how scientific principles relate to issues of personal and/or societal importance.**

Outcome (specify how this course meets the outcome stated above)

[type here]

Assessment (Assessments can include essays, quizzes, tests, homework, class discussion, journals, group projects, presentations, labs, research papers, response papers, field work, service learning, independent study, etc. The assessment description should demonstrate a connection to how the course meets the outcome.)

[type here]

4. **Communicate effectively an understanding of scientific concepts and experimental outcomes in speech or writing, using sound scientific terminology and citation appropriate to the discipline.**

   Outcome (specify how this course meets the outcome stated above)

   [type here]

   Assessment (Assessments can include essays, quizzes, tests, homework, class discussion, journals, group projects, presentations, labs, research papers, response papers, field work, service learning, independent study, etc. The assessment description should demonstrate a connection to how the course meets the outcome.)

   [type here]