Discovery Category SLOs
("Student Learning Outcomes" for each Discovery Category)
04/05/18

Student Learning Outcomes in Discovery:

The Discovery Committee, with the assistance of the Discovery Office, created following student learning outcomes (SLOs) for each Discovery category. It is our hope that they reflect a broad set of learning goals that will be present in any course taught in one of the following categories. While we realize that many of these skills may be acquired in other courses or through other experiences, the Discovery Program provides a coherent body of knowledge through designated Discovery courses. Students, therefore, must take a designated Discovery course in each of the Discovery categories in order to fulfill their core curriculum requirements at the University of New Hampshire, *regardless of whether they feel they have acquired these skills elsewhere*. In many cases, transfer courses that closely match UNH Discovery courses will be granted Discovery credit, but this credit must be approved and awarded by the Registrar's Office and/or the Discovery Committee. The following skills are carefully aligned with the Competencies outlined in the SLOs for the Discovery Program as a whole.

Discovery Foundation Skills

- **English 401**

- **Quantitative Reasoning (QR)**
  - Demonstrate proficiency in carrying out mathematical procedures.
  - Use mathematical thinking to analyze situations and data and to solve problems.

- **Inquiry Course** (Critical thinking seminar or lab)

Discovery in the Disciplines

Biological Sciences (BS)

- Learn about aspects of the living world as described in the course description.
- Demonstrate an understanding of fundamental concepts in biological science.
  - **Additional SLOs for BS DLAB courses**
- Communicate scientific material effectively in written and oral formats.
- Summarize, analyze, and evaluate scientific data.
- Explain how scientific hypotheses are tested or rejected.
- Master appropriate laboratory and field techniques commonly used in biology.

Physical Sciences (PS)

- Learn about aspects of the physical world specified in the course description.
- Demonstrate an understanding of fundamental concepts in the physical sciences.
- Use mathematical models and computational thinking to understand the physical world.
    - **Additional SLOs for PS DLAB courses**
- Communicate scientific information effectively in written and oral formats.
- Summarize, analyze, and evaluate scientific data.
- Explain how hypotheses are tested or rejected.
- Master appropriate laboratory and field techniques commonly used in physical science.

Discovery Lab (DLAB) (FROM DLAB DESCRIPTION)

- Explain phenomena through observation, experimentation, and quantitative analysis.
- Collect and interpret data.
- Create, test, modify, confirm or invalidate hypotheses.
- Master appropriate laboratory and field techniques used in the biological and physical sciences.
- Communicate scientific material effectively in written and oral formats.

Environment, Technology, & Society (ETS)

One or more of the following:

- Explore the social consequences of technological and/or environmental change.
- Master a technology described in the course description and evaluate its human impact.
- Consider the impact of various technologies on the environment.
- Understand the way the environmental challenges shape the development of technology.

Fine and Performing Arts (FPA)

One or more of the following:

- Develop an understanding and appreciation of differing forms of art expression such as music, visual art, theatre, or architecture.
- Develop skills in creative writing.
- Produce art in the studio, workshop, or theatre.

Historical Perspectives (HP)

- Study the signature events that occurred within the time and geographical expanse specified in the course description.
- Explore the way primary sources reveal the ideas and values of people living in a different time and place.
- Appreciate human diversity through examination of class, race, and/or gender hierarchies of the past.
- Interpret the way past events and belief systems have contributed to and differed from the values and intuitions of the present.

Humanities (HUMA)

- Engage with literary, philosophical, artistic and/or cinematic works that explore some aspect of the human condition.
- Pose questions about the nature of being, ethical imperatives, aesthetics, or epistemology.
- Write a critical essay investigating a focused question raised by a literary, philosophical, or artistic work.

Social Sciences (SS)

- Apply quantitative and/or qualitative data to investigate the dynamics of social interactions.
- Develop testable hypotheses regarding the social and cultural world they examine.

World Cultures (WC)

- Explore human diversity by studying societies and cultures outside the United States.
- Recognize the diversity and validity of unfamiliar cultural values.