

# Bemidji State University

## BIOL 3338: Science Communication Lab

### A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: 0

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

All students in the Biology Baccalaureate Partnership at North Hennepin Community College are expected to co-enroll in this 1 credit face-to-face section on the NHCC campus when taking BIOL 3337 online. The on-campus discussion section will cover supplementary topics and material and is intended to build scientific community and communications skills among the BBP cohort. The lab section will not impact the main course grades. Co-requisite BIOL 3337. Liberal Education Goal Area 11.

**B. COURSE EFFECTIVE DATES:** 08/20/2017 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Who Are We, What is Science, and Why and How is it Communicated?
2. The Responsible Conduct of Research
3. Statistics and Data Visualization
4. Written and Oral Communications

### D. LEARNING OUTCOMES (General)

1. assess the ways in which the practice of science is both dependent and independent of the society in which it functions, and recognize instances where the scientific enterprise can recapitulate institutional and cultural biases despite the appearance of objectivity.
2. create clear, parsimonious, and rigorous data visualizations, and critically analyze published data visualizations from a variety of sources.
3. create compelling written and oral communications with clearly defined goals and appropriately scaled information content and complexity.
4. critique and improve their own and others' work effectively and generously.
5. find, organize, analyze, annotate, and cite a variety of scientific and mass media sources clearly, concisely, and logically.
6. summarize and practice the norms and requirements for the responsible conduct of research.
7. understand different models of scientific thinking and their strengths and limitations, and apply them to propose testable scientific hypotheses to extend existing knowledge.
8. use features of Microsoft Office and other software to increase productivity and efficiency, and improve document style, consistency, readability, and navigation.

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted