Bemidji State University

BIOL 3338: Science Communication Lab

A. COURSE DESCRIPTION
   Credits: 1
   Lecture Hours/Week: *.*
   Lab Hours/Week: *.*
   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.

B. COURSE EFFECTIVE DATES: 08/21/2017 - 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