

# Minnesota State University Moorhead

## BCBT 475: Biotechniques: Research and Communication I

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 2

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites:

This course requires the following prerequisite  
CHEM 410 - Biochemistry II

Corequisites: None

MnTC Goals: None

This course consists of both laboratory research and significant training on scientific communication. Students will work in teams to identify a faculty research mentor, prepare and present formal research proposals, design research experiments and begin a research project that will last the year. Students must have senior standing in the biotechnology emphasis, which requires the completion of each of the biotechnology core courses with a grade of C or above.

**B. COURSE EFFECTIVE DATES:** 08/25/2008 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Student will be proficient in a variety of advanced laboratory techniques.
2. Student will learn critical thinking about the science being performed and how to communicate ideas and results effectively.
3. Students will understand the different career options related to biochemistry and biotechnology.
4. Students will be proficient in the scientific process from experimental design and proposal writing to performing experiments and presenting results in both written and oral formats.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted