

Minnesota State University Moorhead

BCBT 360: Team-Based Biochemistry and Biotechnology Research

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites:

This course requires all four of these prerequisites

CHEM 400 - Biochemistry I

CHEM 405 - Biochemistry Laboratory I

BIOL 385 - Molecular Biology

BIOL 385L - Molecular Biology Lab

Corequisites: None

MnTC Goals: None

Students will participate in a team-based research experience in a principle investigator system in which they will apply advanced research techniques to a current research problem. In addition to research skills, as part of a research team the students will learn research management, team coordination, and conflict resolution skills.

B. COURSE EFFECTIVE DATES: 03/03/2014 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Apply management and conflict resolution skills to management of a research team.
2. Collect, analyze, interpret, and prepare data for presentation.
3. Identify and critically read primary literature and literature reviews.
4. Identify and modify appropriate protocols to meet the needs of the specific research topic.
5. Manage a group of peer scientists through overseeing, designing, and coordinate their work.
6. Propose scientifically relevant scientific questions, develop hypotheses, and design experiments to test those hypotheses.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted