

Minnesota State University Moorhead

BCBT 463: Proteomics and Advanced Chromatography

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Introduction to proteomics, recombinant protein expression and purification using advanced chromatography systems. Students will study these topics and practice in the lab. Students will express recombinant fusion proteins in different systems and purify these proteins using FPLC or HPLC. Students will also study advanced proteomics techniques including 2D electrophoresis, mass spectrometry and protein bioinformatics. This is a lab/lecture course where students will study background and theory and practice some of these techniques in the lab.

B. COURSE EFFECTIVE DATES: 09/15/2014 - 10/13/2021

C. OUTLINE OF MAJOR CONTENT AREAS

None

D. LEARNING OUTCOMES (General)

None

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted