

# Minnesota State University Moorhead

## BCBT 482: Biotechniques: Biofuels

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 2

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites:

This course requires the following prerequisite  
BIOL 111 - Cell Biology

Corequisites: None

MnTC Goals: None

An introduction to the biological concept of the growing field of Biofuels. In this section block students will learn the complex carbohydrates which make up the dynamic structure of the plant primary cell wall. They will also learn how to extract these carbohydrate moieties, conduct analytical and structural analyses, and also determine the potential energy incumbent within such carbohydrates.

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

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Students will learn to independently extract plant biomass, determine the biochemical make up of the components, determine the potential for isolating certain components, and determine the viability of such components as a potential constituent of a future Biofuel.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted