

## Master Syllabus

### BTN 1140 - Cell Culture

**Division:** Science, Mathematics and Engineering

**Department:** Biotechnology

**Credit Hour Total:** 2.0

**Lecture Hrs:** 1.0 **Lab Hrs:** 2.0

**Prerequisite(s):** BIO 1111 AND BTN 1130 AND CHE 1111

**Other Prerequisite(s):** AND Restricted to Majors

**Date Revised:** July 2014

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### Course Description:

Introduction to cell culturing techniques. One classroom, two lab hours per week.

### General Education Outcomes:

- Written Communication Competency
- Critical Thinking/Problem Solving Competency
- Values/Citizenship/Community Competency
- Computer Literacy Competency
- Information Literacy Competency

### Course Outcomes:

#### Cell Culture Media

Prepare and evaluate cell culture media.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accumulate 60% or higher of available exam points

#### Historical perspectives of cell culture techniques

Understand and explain the historical development of cell culture techniques.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accumulate 60% or higher of available exam points

#### In vitro cells

Grow and maintain in vitro cells.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 60% or higher of available exam points

### Outline:

Media  
Chemical Formulas  
Record Keeping Procedures  
Cell Growth Strategies  
Cell Viability  
Cell Density  
Biohazard