

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

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