Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

BTN 1120 - Laboratory Safety & Regulatory Compliance

Division: Science, Mathematics and Engineering

Department: Biotechnology

Credit Hour Total: 2.0 **Lecture Hrs:** 2.0

Date Revised: July 2014

Course Description:

Introduction to lab safety culture, precautionary labels, Material Safety Data Sheets, using personal protective equipment, handling lab equipment safely, handling , storing and disposing of chemicals safely, using emergency equipment as well as safety planning.

General Education Outcomes:

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

Course Outcomes:

Chemical Labeling & Safety
Demonstrate safe handling of chemicals and equipment in the laboratory.

Assessment Method: Locally developed exams
Performance Criteria: 60% or higher of available exam points

Regulatory Agencies
Demonstrate familiarity with international and federal regulatory agencies that impact the work of Biotechnology.

Assessment Method: Locally developed exams
Performance Criteria: 60% or higher of available exam points

Good Lab Practice, Good Manufacturing Practice & Fire Safety
Demonstrate knowledge of Good Laboratory Practices (GLPs), Good Manufacturing Practices (GMPs) and Fire Safety

Assessment Method: External examiner
Performance Criteria: 60% or higher of available exam points

Emergency Equipment & Standard Operating Procedures
Recognize and maintain various PPE and emergency equipment in a laboratory setting as well as evaluating Standard Operating Procedures (SOPs) and safety plans.

Assessment Method: Locally developed exams
Performance Criteria: 60% or higher of available exam points

Outline:

Material safety data sheets
Good lab practices
Good manufacturing practices
Fire safety
Regulatory agencies
Safe use of lab equipment & chemicals
Using emergency equipment
Safety planning