

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