

## 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:** April 2014

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#### 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

##### 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

##### 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

##### 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