

## Master Syllabus

### PHY 1107 - Lab for Physics for Technology

**Division:** Science, Mathematics and Engineering

**Department:** Physics

**Credit Hour Total:** 0.0

**Date Revised:** October 2013

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### Course Description:

### General Education Outcomes:

- Critical Thinking/Problem Solving Competency

### Course Outcomes:

#### Predictions Using Data

Make predictions using inferred data patterns through extrapolation and/or interpolation.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 70% or higher correct

#### Experimental Procedures

Design and implement experimental procedures including control of variables, making distinctions between dependent and independent variables and accounting for uncertainties.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 70% or higher correct

#### Data Analysis

Analyze experimental data including representations of data in graphical form.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 70% or higher correct

#### Data Trends

Infer patterns in collected data taking into account experimental uncertainties.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 70% or higher correct

### Outline:

One and Two Dimensional Motions  
Energy  
Electricity and Magnetism  
Waves, Sound and Light  
Atomic Structure  
Emission and Absorption of Radiation