

Master Syllabus

PHY 1110 - Lab for Introduction to Physics

Division: Science, Mathematics and Engineering

Department: Physics

Credit Hour Total: 0.0

Date Revised: May 2015

Course Description:

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

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 Trends

Infer patterns in collected data taking into account experimental 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

Predictions Using Data

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

Assessment Method: Performance appraisals

Performance Criteria: 70% or higher correct

Outline:

One and Two Dimensional Kinematics Dynamics and Newtons Laws of Motion Work and Energy Atoms, Molecules and Basic Properties of Matter Thermodynamics Electrostatics DC Circuits Electromagnetism