

Master Syllabus

CHE 1251 - Lab for General Chemistry I

Division: Science, Mathematics and Engineering

Department: Chemistry

Credit Hour Total: 0.0

Date Revised: July 2017

Course Description:

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Lab Techniques

Perform volumetric analysis, safe and effective operation of a bunsen burner, pipetting, gravimetric analysis, solution preparation and agitation, temperature determination and use of other various electronic lab equipment.

Assessment Method: Performance appraisals

Performance Criteria: 70% or above on lab reports

Measurement and Significant Figures

Interpret measured numbers, accuracy and precision. Adhere to significant figure conventions in measured and calculated numbers.

Assessment Method: Performance appraisals

Performance Criteria: 70% or above on lab reports

Calculation of Measured Data

Corroborate and prove scientific theories through calculation of measured data.

Assessment Method: Performance appraisals

Performance Criteria: 70% or above on lab reports

Lab Safety and Waste Disposal

Adhere to safety and waste disposal policies and procedures in accordance with OSHA and EPA regulations.

Assessment Method: Behavioral observations

Performance Criteria: Score 6 of 9 on all parts of a rubric

Assessment Method: Performance appraisals

Performance Criteria: 70% or above on lab reports

Outline:

Safety and Waste Disposal in the Chemistry Lab
Measurement Data Analysis
Chemical and Physical Properties
Energy Changes of Chemical Reactions
Bonding