

## 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

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### 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