

## Master Syllabus

### CHE 1351 - Lab for College 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
- Written Communication Competency

### Course Outcomes:

#### Measurement

Perform calculations involving density, unit conversion, calories, percent yields, concentrations and moles.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 70% or above on lab reports

#### Following Procedure

Describe chemical and physical properties and perform chemical, physical conversions.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 70% or above on lab reports

#### Data Analysis

Organize and interpret data, draw graphs and shapes of molecules.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 70% or above on lab reports

#### Chemical and Physical Properties

Perform metric measurements, paper chromatography, separation of mixtures, and determine acidity and water hardness.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 70% or above on lab reports

### Outline:

Introduction and Safety Density and Measurement Paper Chromatography Absorption Spectroscopy Data Analysis and Graphing  
Preparation and Properties of Gases Chemical Reaction: Mass to Mole Conversion Protection Against UV Radiation LeChatelier's  
Principle Acids and Bases Analysis of Water