

Master Syllabus

CHE 1351 - Lab for College Chemistry I

Division: Science, Mathematics and Engineering

Department: Chemistry

Credit Hour Total: 0.0

Date Revised: March 2018

Course Description:

Lab for CHE 1311.

General Education Outcomes:

- Written Communication Competency
- Critical Thinking/Problem Solving Competency

Course Outcomes:

Following Procedure

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

Assessment Method: Performance appraisals

Performance Criteria:

60% or above on lab reports

Measurement

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

Assessment Method: Performance appraisals

Performance Criteria:

60% or above on lab reports

Data Analysis

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

Assessment Method: Performance appraisals

Performance Criteria:

60% or above on lab reports

Chemical and Physical Properties

Perform chemical reactions, paper chromatography, separation of mixtures, and determine acidity and water hardness.

Assessment Method: Performance appraisals

Performance Criteria:

60% 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 Reactions: Mass to Mole Conversion

Protection Against UV Radiation

LeChatelier's Principle

Acids and Bases

Analysis of Water Hardness