Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

CHE 1351 - Lab for College Chemistry I

Division: Science, Mathematics and Engineering

Department: Chemistry

Credit Hour Total: 0.0

Date Revised: December 2014

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 MeasurementPaper ChromatographyAbsorption SpectroscopyData Analysis and Graphing Preparation and Properties of GasesChemical Reaction: Mass to Mole ConversionProtection Against UV RadiationLeChatelier's PrincipleAcids and BasesAnalysis of Water