

Master Syllabus

CHE 1151 - Lab for Introduction to 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:

Chemical Instrumentation

Demonstrate proper technique in using chemical instruments and equipment.

Assessment Method: Performance appraisals

Performance Criteria: 60% or above on lab reports

Measurement

Perform volume, mass, length and temperature measurements using the SI system of units.

Assessment Method: Performance appraisals

Performance Criteria: 60% or above on lab reports

Following Chemical Procedures

Perform simple acid-base, kinetic, quantitative and qualitative analyses by following a chemical procedure.

Assessment Method: Performance appraisals

Performance Criteria: 60% or above on lab reports

Safe Reaction Practices

Perform and observe chemical and physical changes of inorganic and organic molecules by following the proper procedure in a safe manner.

Assessment Method: Performance appraisals

Performance Criteria: 60% or above on lab reports

Outline:

Safety and Waste Disposal
Matter and Measurement
Atoms and Molecules
Chemical Reactions
Energy Changes of Chemical/Physical Processes
Atomic Structure
Bonding
Acid/base chemistry
Chemical kinetics and equilibrium
Nuclear Chemistry
Organic Chemistry