CHEM 1411: CRN: 74026

2/10/2014 (Mon) second start date

Optional Study Guide

Student Solutions

Course Catalog Description

Science and engineering majors study atomic structure, chemical reactions, and thermodynamics, electronic

Configuration, chemical bonding, molecular structure, gases, states of matter, and properties of solution .The

Laboratory includes appropriate experiments.

Prerequisites: One year of high school chemistry and MATH 1314 (College Algebra). 4 credit (3 lectures, 3 labs).

Laboratory Manual: All students have ti buy the Lab Manual. No photocopies will be accepted. The Lab Manual is available at the HCC book stores.

**Course Intent**

This course is intended for students majoring in one of the physical sciences or life sciences.

**The HCCS attendance policy is stated in the:**

Schedule of Classes: “Students are expected to attend classes regularly. Students are responsible for materials covered during their absences, and student's responsibility to consult with instructors for makeup assignments. Class attendance is checked daily by instructors.

Although it is the responsibility of the student to drop a course for nonattendance, the instructor majority to drop a student for excessive absences. A student may be dropped from a course for excessive absences after the student has accumulated absences in excess of 12.5% of the hours of instruction (including lecture and laboratory time)

Monday Dr. Martin Luther King’s Birthday

(Monday) 13th January Start CHEM 1405

(Tuesday) President’s Day Start CHEM 1411

CHEM1411 (Wed) Wed: Jan 15th Start CHEM1411

MondayCHEM1405 Final Exam

Wednesday (CHEM (1411) Final Exam

**Final Exams will announce in Class.**

**Expt-1 Safety video**

**Experime-2 Measuring techniques & calculations.**

**Experiment-3 : Separation of a mixture.**

**Experiment-4 Formula of a Hydrate and percentage of Water**

**Experiment-5 The Iron-Copper Molar Ratio &Replacement and Limiting Reagent**

**Experint-6: Reaction in in Aqueous Single & Double Replacement Reaction.**

**Experment-7: Reactive Metals- Activity Series (Part1) Expermnt-7: Reaction in in Aqueous Single & Double Replacement Reaction :(#4,#5,#6,#10,#14)**

**Experimet-8: Conductivity of Solutions Measured by Vernier Computer Interface.**

**Experiment-9: Heat of Neutralization Measured by Vernier Computer Interface.**

**Experiment-11: Ideal gas Law Determination of the Molar Mass of Volatile Compound.**