CHE*H111 CREDIT BY EXAM

The CHE*H111 Credit by Exam has 75 questions. Passing score is a 55 out of 75 (73%). All questions are multiple choice and the test is computer based. A calculator will be provided on screen for the necessary questions. This test is equivalent to a final exam for the course. A passing score will show as a "TR" transfer credit on your transcript.

TOPIC LIST

1. Acids and Bases
2. Changes of Physical State
3. Chemical Bonding
4. Chemical Equations
5. Chemical vs. Physical Changes
6. Classification of Matters
7. Density
8. Electron Configurations
9. Empirical and Molecular Formulas
10. Gas Laws
11. Intermolecular Forces
12. Mole Calculations
13. Percent Composition
14. Periodic Law
15. Scientific Notation
16. Solution Concentration
17. Stoichiometry
18. Structure of the Atom
19. Temperature Conversions

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COURSE OUTCOMES FOR CONCEPTS OF CHEMISTRY

1. Apply the principles of dimensional analysis (unit analysis) to problem solving.

2. Determine the bonding and structure of simple molecules using the theories of chemical bonding.

3. Predict chemical and physical properties of substances by applying knowledge from the Periodic Table.

4. Perform calculations involving the gas phase using the appropriate mathematical model.

5. Describe the characteristics of the gas phase and a method of modeling the gas phase.

6. Write electron configurations and explain the relationship between atomic structure and chemical/physical properties.

7. Perform stoichiometric calculations for chemical reactions and for the reactions in aqueous solution using concentration units.

8. Describe intermolecular force and their significance to material properties of boiling points, vapor pressure and heats of vaporization.

9. Identify intermolecular forces in simple molecules.

10. Classify different substances as acids or bases, predict relative strength of acids and bases, and perform pH calculations.

11. Perform scientific measurements with precision and accuracy.

12. Produce a written document containing experimental data, the results, and the significance of the results.