GENERAL ANNOUNCEMENTS & SYLLABUS

CHEMISTRY CHE5301
UTEF, FALL 2014

Instructor: Dr. Juan C. Noveron
Class Location and time: Mondays at 5 – 7:20 PM
Instructor’s Office: Chemistry and Computer and Science Building 2.042
Office Hours: M, 3- 5PM, and by appointment
Tel: 747 - 7572
E-mail: jcnoveron@utep.edu

1. Curriculum: Chemistry 5301 Modern General Chemistry will focus in chemical bonding theories. We will develop a sufficient background that allows us to discuss the research literature of national laboratories. We will develop pedagogical applications of research findings of the national laboratories (US Department of Agriculture) and create teaching labs and demonstrations with such concepts.

2. Suggested Textbook:
   Chemistry
   Raymond Chang, any edition.

3. Grades: Letter grades will be assigned on the basis of your total score earned for the semester. This score is the sum of these assessments:
   (a) Midterm (100 pts)
   (b) Literature Presentation (100 pts)
   (c) Development of Teaching Lab or Demonstration. (100 pts)

4. Lecture Schedule:
   I. Chemical Foundation
   II. Electronic Structure
   III. Atoms to Molecules
   IV. Covalent Bonding
   V. Ionic Bonding
   VI. Molecular Structure
   VII. Resonance
   VIII. Energy and Thermochemistry
   IX. Chemistry Literature
   X. Laboratory Safety
   XI. Special Topics in Laboratory Procedures

Instructor Expectations:
• Every student will attend every lecture and attend every lab session.

Learning Goals and Student Outcomes:
Students completing this course will have a clear understanding of the chemical and physical basis for chemical bonding in simple inorganic and organic substances, and understanding of the thermal forces that determine their physical properties.

Laboratories
Laboratory is an integral part of CHEM 5301. The content for CHEM 5301 laboratory will be integrated with the material covered in lectures. Goggles and lab coat are required for the laboratory. Students will develop innovated teaching labs appropriate for K-14 students.

Disability: If you have or suspect a disability and need accommodations you should contact Disabled Student Services Office (DSSO) at 747-5148 or at dss@utep.edu or come by Room 106 Union East Building.