

General Chemistry 1305

Syllabus

Spring 2013

I. **Instructor:**

Dr. Juan C. Noveron

Lecture: MWF 08:30 – 9:20 AM

Location: UGLC 106

Office Hours: MW 9:30 – 11:00 AM and by appointment

Contact Information:

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II. **Learning Goals and Student Outcomes:**

This is the first part of General Chemistry for scientists, engineers and pre-medical students. The students in the class will gain knowledge in the foundations of atomic and molecular structure, nomenclature, physical and chemical changes of matter, fundamentals of chemical reactivity, chemical bonding, thermochemistry and the properties of gases.

Prerequisites: In order to be enrolled in Chemistry 1305, you should have:

- Passed or be concurrently enrolled in Math 1508 or
- Have achieved an SAT Math score of 600 or better.

Student Major:

The CHEM 1305 - 1306 sequence is designed for students who are majoring in a field of science or engineering. Students majoring in other disciplines may prefer to take the CHEM 4107 - 4108 sequence which contains more descriptive and less quantitative material.

III. **Course Information:**

Textbook & Workbook: (You can find them at the UTEP Bookstore)

"Chemistry", by Raymond Chang, 11th edition, McGraw-Hill Science (Early editions are acceptable)

"General Chemistry by Exploration: Resource Book for Peer-led Team Learning"

Required Online HW System: CONNECT (it comes bundled with a new Textbook from the UTEP bookstore or it can be purchased separately from [www.http://connect.mcgraw-hill.com/](http://connect.mcgraw-hill.com/)).

Required attendance to Workshop:

- Workshop is a required component of CHEM 1305. Every student enrolled in a 1305 lecture section must also be co-enrolled in a Workshop section.
- Workshop is NOT the same as CHEM 1105 Laboratory. Workshops meet starting the first week of classes
- Each Workshop meets for a two-hour period, and is instructed by a Peer Leader. The Workshop format allows the Peer Leaders to use active learning techniques to enhance understanding of the chemical principles discussed in class. It also provides opportunities for hands-on exposure to qualitative and descriptive chemistry activities (Explorations). Workshop grade is based on participation and involvement. Absence, tardiness, or leaving early from Workshop will result in a grade reduction in the overall CHEM 1305 grade.
- Goggles and labcoat are required and must be worn during ALL chemical Explorations.
- Peer Leaders: There are fifteen Peer Leaders (PLs) teaching in the CHEM 1305 Workshop Program this semester. Each PL has specified office hours each week in the Physical Science ACES area and the schedule of their office hours will be posted Blackboard. *You* may consult with any PL during her or his office hours, not just the PL in charge of your specific Workshop section. PLs will also conduct review sessions prior to Hour Examinations and the Final Exam.

Resources:

1. Blackboard: Announcements will be made using Blackboard. All notes from Dr. Noveron's lectures will be posted on Blackboard.

Accessing Blackboard

1. You can access Blackboard via your myUTEP page but you will need your email username and password. If you don't know your email username and password, call the HELP desk to request them.
2. Go to My.UTEP.edu and log in
3. Click on Blackboard — it's on the menu bar at the top of the page.

Instructor Expectations:

Every student will attend all lectures and workshops. Weekly homework will be assigned and it will be due on the day announced. Late homework will not be credited. Students will attend review sessions given by Peer Leaders and practice answering questions and problems from within the chapters and those at the end-of-chapter. It is highly recommended that the student will read over the appropriate pages in the textbook and complete the required homework on time.

Course Withdrawal Policy

Check Academic Calendar for UTEP Official Academic Calendar:

<http://academics.utep.edu/Default.aspx?tabid=58211>

Classes dropped prior to the official census date (**Feb 5 2014**) will be deleted from the student's semester record. After this date, the University permits any student to drop with an automatic "W" until **April 4 2014**. Noted this date is after the second hour examination. After this date students who withdraw must receive grades of "F".

IV. Laboratories

CHEM 1105 is a separate course from CHEM 1305 while the Workshop is an integral part of CHEM 1305. The laboratory is highly recommended for all students regardless of major.

V. Examinations:

- Four one-hour examinations and a Final are scheduled according to the schedule to be announced. All exam grades will count towards the grade.
- The American Chemical Society Exam for General Chemistry will be used as the final exam. The score of this examination is highly reflective of student's understanding of the main concepts of the course. Therefore, it is imperative that a deep understanding of the subject is achieved. This can be accomplished by attending lectures, doing all the HW, consulting the instructors and Peer Leaders during office hours, and actively reading the textbook.
- CHEM 1305 examination questions are designed to test: **i)** understanding of basic concepts, and **ii)** familiarity with chemical nomenclature, usage and calculations. Examinations emphasize problem solving as opposed to memorization: only 20% of most exams consist of short answer questions. You are well advised to learn the process involved in problem solving rather than memorization of specific facts. Valid absences for University related activities (e.g. out-of-town research presentations, sporting events) must be arranged **prior** to the date of the respective examination. No provision exists for makeup of examinations missed as a result of unexcused absences.
NO CELL PHONES, BEEPERS, OR OTHER ELECTRONIC DEVICES MAY BE ON OR USED DURING EXAMINATIONS INSIDE OR OUTSIDE THE EXAMINATION ROOM.
- Any student found using an electronic device during an examination will receive a grade of zero on the examination.
- No caps or hats may be worn during examinations. Bring a photo identification card to all examinations to display when turning in your examination.
- **Do not** bring programmable calculators (i.e. a calculator not capable of retaining equations or words) to the hour examinations and the final examination. Anyone found using a programmable calculator will receive a grade of zero. You can purchase a satisfactory calculator which can perform logarithmic and exponential operations (needed for Chem. 1306) for less than \$10 at many stores.

VI. Grades: (Grading is subject to revision.)

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| 1. Exam I | 100 pts covers Chp. 1-3 (Week of Feb 19) |
| 2. Exam II | 100 pts covers Chp. 4-5 (Week of March 19) |
| 3. Exam III | 100 pts covers Chp. 6-8 (Week of April 16) |
| 4. Exam IV | 100 pts covers Chp. 9-10 (Week of May 7) |

4. HW + eNotes	150 + 50 pts
5. Quizzes	100 pts
6 Workshop	200 pts
7. <u>Final</u>	<u>200 pts (May 13)</u>
TOTAL	= 1100 pts

Grades are calculated according to a universal scale. F: <50% to A: >90%

VII. Academic honesty:

Materials (written or otherwise) submitted to fulfill academic requirements must represent a student's own efforts. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Violations will be taken seriously and will be referred to the Dean of Students Office for possible disciplinary action. Students may be suspended or expelled from UTEP for such actions.

VIII. Students with Disabilities:

Student with a disability can contact Disabled Student Services to take exams with appropriate accommodations. The office is located in Room 106 Union East Building and can be contacted at (915) 747-5148 Voice/TTY, (915) 747-8712 Fax or at dss@utep.edu. If you have or believe you have a disability, you may do so by providing documentation to the Office of disabled Student Services.