



Course	CHEM 1315.HN1: General Chemistry I (Honors)
Professor	John Sibert
Term	Fall 2016
Meetings	Section 001: MWF 1:00 pm – 1:50 pm, CB2 1.204

Professor's Contact Information

Office Phone	972 883-2918
Office Location	BE 3.520
Email Address	sibertj@utdallas.edu
Office Hours	Mon 2:00 to 3:00 pm; Tues 2:00 to 3:00 pm or when my door is open
Other Information	Best way to contact me: email listed above or stop by my office; I don't read eLearning email

General Course Information

Pre-requisites, Co-requisites, & other restrictions	One year of high school chemistry is assumed.
Course Description	Introduction to chemistry theory. The course emphasizes molecular structure and bonding, chemical reactions, and the mole concept and its applications.
Learning Outcomes	<p><u>Objectives</u></p> <p>This course is the first of a two-course sequence. The goal is to provide students with a working knowledge of general chemistry needed for creative problem solving, as well as a background for advanced chemistry and related science courses, and for laboratory applications. The course focuses on the following: the architecture of the atom; molecular structure and bonding; chemical reactions; thermochemistry; the mole concept and its applications; and the properties of solids, liquids and gases. Basic problem solving skills and critical thinking are also emphasized.</p> <p><u>Expected Learning Outcomes</u></p> <p>Upon successful completion of this course, students will therefore:</p> <ol style="list-style-type: none">1) be able to use basic concepts in quantum theory and chemical bonding theory by predicting both the chemical properties (e.g. periodic trends, reactivities) and the electronic and 3-dimensional structures of representative compounds2) be able to interpret experimental data (in both tabular and graphical form) by appropriately setting up and solving scientific problems using dimensional analysis with proper attention to scientific units and significant figures3) be able to demonstrate an understanding of the role of energy in physical changes and chemical reactions by predicting the direction and magnitude of energy changes and by performing thermochemical calculations4) be able to demonstrate an understanding of the properties of gases by applying the gas laws and kinetic molecular theory to processes involving gases
Required Texts & Materials	<ol style="list-style-type: none">1. Textbook: "<i>Chemistry, The Molecular Nature of Matter and Change</i>," 7th ed.; Authors: Martin S. Silberberg and Patricia G. Amateis; McGraw-Hill2. Textbook: "<i>A Short History of Nearly Everything</i>," Author: Bill Bryson3. course materials located on class site at eLearning: http://elearning.utdallas.edu/

Schedule

UNIT 1

Chapter 1 (not covered in class)

Chapter 2 (Sections 2.1-2.6)

Chapter 7

Chapter 8

EXAM 1: Monday, September 19

UNIT 2

Chapter 9 (9.1 – 9.3)

Chapter 2 (2.8)

Chapter 9 (9.5-9.6)

Chapter 10

Chapter 11 (11.1)

EXAM 2: Monday, October 17

UNIT 3

Chapter 11 (11.2-11.3)

Chapter 3

Chapter 4

EXAM 3: Friday, November 11

UNIT 4

Chapter 5

Chapter 6

Chapter 9, (9.2, 9.4)

Chapter 12

EXAM 4: Wednesday, December 7

FINAL EXAM (Comprehensive): Wednesday, December 14, 2:00 PM – 4:45 PM

Course Policies

Course Evaluation	<p>(i) HW and In-class assignments 20%</p> <p>(ii) Midterm Exams (4 x 15%) 60%</p> <p>(iii) Final Exam 20%*</p> <p>*Note: The final exam grade will replace your lowest regular exam grade if higher.</p>
Make-up Exams	There are no make-up exams (see above).
Extra Credit	There is no extra credit .
Class Attendance	Regular and punctual class attendance is expected. Students who fail to attend class regularly are inviting scholastic difficulty.
UT Dallas Syllabus Policies and Procedures	<p>The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus:</p> <p style="text-align: center;">http://go.utdallas.edu/syllabus-policies</p> <p>Policies covered include: student conduct and discipline, academic integrity, copyright notice, email use, student grievance procedures, and religious holy days. Some additional information regarding some of these topics is included in related sections below.</p>
Academic Integrity	<p>The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.</p> <p><i>Scholastic Dishonesty:</i> Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, submitting for credit any work or materials that are attributable in whole or in part to another person, taking an examination for another person, or any act designed to give unfair advantage to a student or the attempt to commit such acts.</p>
Withdrawal from Class	<p>The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.</p> <p><i>Undergraduates last day to drop without a "W": Wed Sept 7</i></p> <p><i>Undergraduates last day to withdraw with WL: Thurs Oct 27</i></p>
Incomplete Grades	<p>As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of F.</p>
Office of Student AccessAbility (OSA)	<p>It is the policy and practice of The University of Texas at Dallas to make reasonable accommodations for students with properly documented disabilities. However, written notification from the Office of Student AccessAbility (OSA) is required. If you are eligible to receive an accommodation and would like to request it for a course, please discuss it with an OSA staff member and allow at least one week's advanced notice. Students who have questions about receiving accommodations, or those who have, or think they may have, a disability (mobility, sensory, health, psychological, learning, etc.) are invited to contact the Office of Student AccessAbility for a confidential discussion.</p> <p>The primary functions of the Office of Student AccessAbility are to provide:</p> <ol style="list-style-type: none"> 1. academic accommodations for students with a documented permanent physical, mental or sensory disability 2. non-academic accommodations 3. resource and referral information and advocacy support as necessary and appropriate. <p>OSA is located in the Student Services Building, suite 3.200. They can be reached by</p>

	phone at (972) 883-2098, or by email at disabilityservice@utdallas.edu .

These descriptions and timelines are subject to change at the discretion of the Professor.