



Introductory Chemistry

Chemistry 1010 - 001
Dr. Harris
Spring 2012 Course Syllabus
9:30 – 10:20 a.m., MWF
Widtsoe 007
3 credits

Dates		MON	WED	FRI
January	9 th – 13 th	Introduction	1	1
January	16 th – 20 th	Holiday	1	2
January	23 rd – 27 th	2	2	3
January 30 th	February 1 st – 3 rd	3	3	3
February	6 th – 10 th	4	4	4
February	13 th – 17 th	5	5	6
February	20 th – 24 th	Monday – Holiday Tuesday (attend Monday classes) – 6	6	6 Extra Credit Information
February 27 th – 29 th	March 2 nd	6	7	7
March	5 th – 9 th	9	9	9
March	12 th – 16 th	Spring Break	Spring Break	Spring Break
March	19 th – 23 rd	10	10	10
March	26 th – 30 th	10	11	11
April	2 nd – 6 th	12	12	13
April	9 th – 13 th	13	13	13
April	16 th – 20 th	13	13	
April	23 rd – 27 th	Help Session	Help Session	Help Session

Exam Number	Date (ESLC 131 TARLab Hours)	Chapters Included
1	Friday, 3 rd of February – Tuesday, 7 th of February	1 – 3
2	Monday, 27 th of February – Wednesday, 29 th of February	4 – 6
3	Monday, 26 th of March – Wednesday, 28 th of March	7, 9, and 10
4	Wednesday, 18 th of April – Friday, 20 th of April	11 – 13
Final	Monday, 30 th of April – Wednesday, 2 nd of May	Comprehensive

Dr. Doug Harris

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Office Hours: 8:30 – 9:15 a.m. MW

SI Instructor: Gilbert Nelson

E-mail: gilbertnelson@gmail.com

SI sessions: Monday – 5:30 pm in ENGR 201 and Thursday – 6:30 pm in FL 206.

Materials

John Suchocki, *Conceptual Chemistry*, 4th edition (custom-published text), Benjamin Cummings, 2010.

Scientific Calculator (no cell phone calculators)

Course web site: <http://ion.chem.usu.edu/~harrisd/>

Coursework

Examinations, 4 @ 100..... 400
Final Exam, comprehensive @ 100..... 100
TOTAL (drop lowest exam score)..... 400

Grades

100% - 92%	A
91% - 88%	A-
87% - 85%	B+
84% - 81%	B
80% - 77%	B-
76% - 73%	C+
72% - 64%	C
63% - 60%	C-
59% - 57%	D+
56% - 50%	D

Note: Scores rounded to nearest one's place (91.4% = 91% and 91.5% = 92%).

The instructor reserves the right to lower these cutoff scores.

Policies and Procedures

1. The administration of Chemistry 1010 will adhere strictly to the policies outlined in the USU 2011 – 2012 General Catalog.
2. Qualified students with disabilities may be eligible for reasonable accommodations. All accommodations are coordinated through the Disability Resource Center (DRC) in Room 101 of the University Inn, 797-2444 voice, 797-0740 TTY, or toll free at 1-800-259-2966. Please contact the DRC as early in the semester as possible. Alternate format materials (Braille, large print or digital) are available with advance notice.
3. There will be four 60-minute exams and one 110-minute comprehensive final exam. Each exam (including the final) is worth 100 points. Each student may drop the lowest of their five exam grades. Students who only take four exams will have all four grades count. Students missing more than one exam will receive a grade of 0 on any missed in excess of 1. Exams will not be rescheduled to an earlier date and time. Make up exams will not be given. Students will be permitted to bring a calculator (no cell phone calculators) to the exam.
4. Keep in mind that the practice exam serves as an assessment of your understanding of concepts presented in lecture. Hopefully you will be diligent about following the suggested study plan outlined at the beginning of the course. Exam questions may be the same or similar to the practice exam problems but may also be completely different. Although exam questions may be completely different from the practice exam problems, all exam questions will focus on the concepts discussed in lecture.
5. Keep track of each exam's results so that you may track your progress in the course. Due to the confidential nature of grades, Dr. Harris will only provide student grades upon request with photo ID before class begins.
6. Although class attendance will not be officially taken, it will be absolutely essential that every effort is made in attending each lecture. All students will be held responsible for lecture material, worked problems, and/or course announcements that are presented in lecture.
7. If you choose to complete an optional extra-credit molecular modeling exercise, one percentage point (1%) will be added to your final grade percentage. This is helpful to those students who end up with a final borderline grade percentage. The extra-credit submission deadline will be at 9:30 a.m. Monday, March 26th. Further information will be given in class on Friday, February 4th regarding the specific details in producing the extra-credit assignment.

Course Objective and Assessment

1. The course will present chemistry *conceptually*, focusing on the concepts of chemistry with little emphasis on calculations. This presentation will hopefully improve each student's learning skills and assist in developing better thinking abilities.
2. Lecture learning checks will be used as a means of assessing student comprehension. These student-centered learning strategies have previously proven successful in this chemistry course.

Some Learning Objectives:

- Become familiar with the basic physical quantities including mass, volume, energy, temperature, and density.
- Understand the fundamental concepts and language of chemistry including physical properties, chemical properties, elements, mixtures, compounds, and atomic structure.
- Understand how elements are organized in the periodic table.
- Understand radioactivity, three major radioactive products, and half-life of a radioactive isotope.
- Explore two types (ionic and covalent) of chemical bonds.
- Given a covalent molecular formula, predict the molecular structure.
- Describe the various types of intermolecular interactions.
- Gain an understanding of the basics of chemical reactions.
- Explore acids and bases and the chemical reactions they undergo.
- Gain a basic understanding of organic compounds.
- Gain a basic understanding of biomolecules.

Taking a computer-based test in the TARLab (ESLC 131)

Taking a computer-based test is actually simpler than filling out a scantron sheet for a True/False/Multiple Choice test. However, there are a few logistical issues that distinguish this testing format from scantron tests. The following are the procedures for taking such a test. The actual testing software that you will be using is called iNetTest. Remember, there are proctors in the testing lab to answer questions about test procedures; however, they are not able to answer specific questions about the material.

1. Although three days are given to take each test, it is best not to wait until the last hour on the third day to go to the lab to take your test. Seating is limited.
2. When you go to the lab to take the test (ESLC 131 – Eccles Science Learning Center) you **MUST** have your current student id and you **MUST** be registered for the class.
3. When you enter ESLC 131 (south door, near the elevator) present your student id to the proctor, and indicate for which class you wish to take a test. After validating your id, the proctor will unlock your test. The test will remain unlocked for five minutes.
4. You may use any vacant computer system in the lab to take the test. You begin by starting a browser (Firefox is the preferred browser) and going to the web site **tarlabtest.usu.edu**. This will bring up the test software called iNetTest.
5. Click on the START button and log in using your student A# for your username and your Banner password for your password.
6. Once logged in, you will see some windows and buttons. You need only be concerned with the window (My Tests) listing the groups (classes) for which you have tests. Within this window, click on the class/button (CHEM1010 or CHEM1110) for which you are registered.
7. You will then see a list (initially only one) of the tests you have taken or can take. For example, for the first midterm for CHEM 1010 you will see three buttons labeled “CHEM1010Sp12 T1”, “Take Test” and “View Results.” Clicking on the test label button or on the Take Test button will start your test.
8. Good luck and beware that the test is timed and at the end of the time period you will be logged out.

After the testing period is ended or you have exited the test, if enabled by the instructor, you can log back into **tarlabtest.usu.edu** and by clicking on the “View Results” button see the results for your test.

Remember, if you have any questions, please ask the proctor.