



# Introductory Chemistry

**Chemistry 1010 - 001**  
**Dr. Doug Harris**  
**Fall 2021 Course Syllabus**  
 MWF, 9:30 – 10:20 am,  
 ESLC 130  
 3 credits

Dates		MON	WED	FRI
August/September	30 <sup>th</sup> – 3 <sup>rd</sup>	Introduction	1	1
September	6 <sup>th</sup> – 10 <sup>th</sup>	Holiday	1	2
September	13 <sup>th</sup> – 17 <sup>th</sup>	2	2	3
September	20 <sup>th</sup> – 24 <sup>th</sup>	3	3	3
September/October	27 <sup>th</sup> – 1 <sup>st</sup>	Exam 1 9:30 a.m. ESLC 130	4	4
October	4 <sup>th</sup> – 8 <sup>th</sup>	4	5	5
October	11 <sup>th</sup> – 15 <sup>th</sup>	6	6	Friday – Fall Break
October	18 <sup>th</sup> – 22 <sup>nd</sup>	6	6 Extra Credit Information	Exam 2 9:30 a.m. ESLC 130
October	25 <sup>th</sup> – 29 <sup>th</sup>	7	7	9
November	1 <sup>st</sup> – 5 <sup>th</sup>	9	9	10
November	8 <sup>th</sup> – 12 <sup>th</sup>	10	10	10
November	15 <sup>th</sup> – 19 <sup>th</sup>	Exam 3 9:30 a.m. ESLC 130 Extra Credit due	11	11
November	22 <sup>nd</sup> – 26 <sup>th</sup>	12	Thanksgiving Holiday	Thanksgiving Holiday
November/December	29 <sup>th</sup> – 3 <sup>rd</sup>	12	12	Make Up Exam by Appointment Only 9:30 a.m. ESLC 130
December	6 <sup>th</sup> – 10 <sup>th</sup>	13	13	13
December	15 <sup>th</sup>		Final Exam 9:30 a.m. ESLC 130	

Exam Number	Date	Chapters Included
1	Monday, 27 <sup>th</sup> of September	1 – 3
2	Friday, 22 <sup>nd</sup> of October	4 – 6
3	Monday, 15 <sup>th</sup> of November	7, 9, and 10
Comprehensive Make Up	Friday, 3 <sup>rd</sup> of December by appointment for excused absences only	1 – 7, 9, and 10
Final	Wednesday, 15 <sup>th</sup> of December	11, 12, and 13 – 33 questions 1 – 7, 9, and 10 – 33 questions

Dr. Doug Harris  
 Office: Maeser Chemistry Lab 157, (435) 797-1609  
 E-mail: [doug.harris@usu.edu](mailto:doug.harris@usu.edu)  
 Office Hours: 10:30 – 11:30 am MW

**Materials:** Scientific Calculator (no networking capable calculators)

**Auto Access eBook: Conceptual Chemistry eBook, 5e by Suchocki**

This course requires all-inclusive digital materials that are provided to you at a lower price than traditional printed materials. These materials are paid for through an "Auto Access Digital Materials" charge placed on your student account when you registered for the course. **To access the materials, visit the Canvas course site.** For more details, including dates, deadlines, and opt-out info, visit your student Auto Access Portal: <https://portal.verba.io/usu/login>

**Coursework**

Examinations, 3 @ 100.....	300
Final Exam, mandatory @ 200.....	200
TOTAL.....	500

**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 (including the issuing of incompletes) outlined in the USU 2021 – 2022 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 three 50-minute exams and one 110-minute mandatory final exam. Students will be permitted to use a calculator (no networking capable calculators) for each exam. Exams will not be rescheduled to another date and time.
4. Missed Exam Policy: Missed exams which have excused absences will be made up with a comprehensive make-up exam. Excused absences include: (1) school excused absences outlined in the general catalog, (2) illness, and (3) a family emergency. Planned family trips, vacations, outings, and weddings are not excused absences. Students should notify the instructor in advance, if possible, prior to missing any exam. Students missing an exam (excluding the mandatory final exam) will have one week to notify the instructor that they have an excused absence. Missed exams that are not made up will be scored as zero. Only one missed exam can be made up. The comprehensive make-up exam is by appointment only and will be held at the exam date and time outlined on the first page of the syllabus. The comprehensive make-up exam will not be rescheduled to another date and time. Students may not request to take the comprehensive make up exam after starting a regular exam.
5. Keep in mind that the practice exams serve 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.
6. Scantrons will be provided by the instructor.
7. When taking the exams, be sure to answer the problem and immediately fill out the corresponding scantron bubble. Avoid waiting to fill out your scantron sheet when finished with your exam. Keep in mind that the exams are multiple-choice and each marked answer is either correct or incorrect. Credit will not be granted for problems that are accidentally marked incorrectly (no answer indicated, two answers provided for one problem, indicated scantron answers are one question number off, indicated scantron answer does not match personal exam copy answer, etc.).
8. Double check your scantron sheet before turning it in. Make sure that all of your answers have been entered the way you want them to appear on your scantron. Once a scantron is submitted, it may not be retrieved in order to make additions and/or changes.
9. Please arrive early to take each exam. Exams and scantron sheets will not be handed out after the first completed exam scantron sheet has been submitted. All requests for an exam and scantron sheet after the first completed exam scantron sheet has been submitted will be directly referred to this policy without further discussion.
10. Please set up your preferred e-mail account with IT services so that you will be able to receive your e-mailed exam results. Make a print out of each exam results so that you may track your progress in the course.
11. 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. Further information will be given in class on Wednesday, October 20<sup>th</sup> regarding the specific details in producing the extra-credit assignment. The extra-credit submission deadline will be at 9:30 a.m. Monday, November 15<sup>th</sup> when we meet to take the third exam. Since the extra credit activity is presented at the conclusion of chapter 6, before the 2<sup>nd</sup> exam, and will only require 15 minutes to complete, all extra credit submissions after 9:30 am Monday the 15<sup>th</sup> of November will not be accepted and will be directly referred to this syllabus course policy.

**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:**

- Understand and apply the basic structure and methodology of the scientific enterprise.
- 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 and biomolecules.