

Chemistry of the Elements
CHEM 2131-1
Spring Quarter, 2014

Instructor: Dr. Todd A. Wells
Office: Physics 205
Phone: (303)871-2439
email: towells@du.edu
Class Time: MWRF, 9:00 - 9:50AM
Class Location: Olin 105 (MWF) BAUD 101 (R)
Office Hours: MR, 10:00 AM - 11:00 AM

REQUIRE COURSE ITEMS

Textbook: *Descriptive Inorganic Chemistry*, Glen E. Rodgers, 3rd Edition.

Calculator: An inexpensive calculator is required. It should have the capabilities for square roots, logarithms, and exponential (scientific) notation operations. **Remember to bring your calculator (or laptop) with you to every class.**

SUPPLEMENTAL COURSE ITEMS

Chemistry, 3rd Edition, Gilbert, Kirss, Foster, & Davies (textbook used for CHEM 1010).

COURSE DESCRIPTION

Descriptive chemistry of main group and transition elements including redox and coordination chemistry.

LECTURE

The format of class meetings will follow traditional lecture format on MWF. I will summarize new material and present illustrations and examples. In lecture, I WILL NOT identify and describe every detail you will read in the text and any supplemental materials. I will, however, emphasize the important topics covered in the reading as well as problem solving strategies when appropriate. You should stop me at any time if you have questions about the material being covered.

The Thursday (R) class meetings will be devoted to quizzes, problem solving, and group activities. No new lecture material will be covered on these days. However, material from the lecture will be explored in greater detail. A short quiz may be administered at each meeting. We will work on specific "challenge problems" in small groups, and after the hour exams, complete exam keys. If time permits, we will go over any questions you have on the material covered in lecture or homework problems.

READING

You are expected to complete the assigned reading prior to the class lecture. After lecture, you should reread the assigned text. In addition, you are also encouraged to attempt the "Ask Yourself exercises" throughout the text while you are completing your assigned reading. I recommend that you understand the material and how to solve the sample problems before proceeding to the next section. At the end of each chapter, a summary of important equations and terms is provided that should prove helpful in the preparation for quizzes and exams.

GRADED EXERCISES

Problem related to the course material will be assigned periodically. Assignments will be due one week after they are announced. The assignments will be composed of a few problems one (unannounced) problem will be graded for correctness. The rest will be checked for completion.

QUIZZES/EXAMS

Quizzes may be administered biweekly on Thursday. The quizzes will be short (10 - 15 minutes), and will cover material from the preceding 6 - 7 lectures. A significant portion of each quiz will cover material that I have covered in lecture and material that you have seen during group work. The quizzes will be similar in nature to assigned problems. An estimated four (4) quizzes will be given throughout the course. Your lowest quiz scores will be dropped and only the scores on the remaining quizzes will comprise the "Quiz" portion of your final grade.

Three (3) exams will be given during the quarter two hour exams and a final exam. Exam problems will be similar to the problems given in the biweekly quizzes and to those found on the problem sets.

If you will be out of town for a University sanctioned function (e.g., athletic team or music group), you are responsible for making arrangements with Dr. Wells at least one week in advance to take the quiz or an hour exam early. If you need take the exam outside of the scheduled time for any other reason, arrangements need to be made with the instructor at least one week in advance. The instructor reserves the right to deny or accept the request and also to alter the exam. Often these non-scheduled exams will be much more difficult than the regularly scheduled exams.

GRADES

Your final grade will be determined by the percentages with the following components:

Group Work/Graded Exercises	10%
Quizzes	15%
Hour exams	50%
Final exam	25%
Total	100%

ACADEMIC DISHONESTY

While I advocate collaborative learning and teamwork, I also firmly believe that each individual should maintain the highest ethical standards in all of life's endeavors. As such, I support and will strictly enforce the Honor Code of the University of Denver. I have included the links for the Honor Code Statement and Honor Code Procedures for Students below. For further information, please see the Office of Citizenship & Community Standards' website at <http://www.du.edu/honorcode/statement.htm> for the Honor Code Statement and at <http://www.du.edu/honorcode/studentprocedure.htm> for the Honor Code Procedures for Students.