

Chemistry 42

Spring 2018

Instructor: Dr. Karen Frindell Teuscher

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Office Hours: MT 11:15-12 and by appointment

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Lecture: TTh 12-1:30, Bech 1910

Laboratory: Th 9-12, Bech 1980

Requirements

Texts:

- 1) Russo and Silver, Introductory Chemistry: Atoms First, 5th Edition 2015
ISBN 9780321927118
- 2) Chemistry 42 Laboratory Manual (by SRJC Chemistry, available at SRJC bookstore)
- 3) Spiral Bound or Composition Notebook for taking notes in laboratory

Equipment:

- 1) Scientific or graphing calculator. Smartphones will not be permitted during exams.
- 2) Protective Eyewear and Apron (will be issued to you)
- 3) Long pants or other clothing that covers the legs completely and closed toed shoes.

Content

Topics in lecture will include material from chapters 1-12 and 15 in the text. Time permitting, we may also cover some material from Chapters 13 and 14.

There will be 12 laboratory experiments.

Student Learning Outcomes:

Upon completion of this course, a student will be able to:

1. Analyze basic quantitative problems in chemistry, and apply them to real life situations.
2. Correlate macroscopic properties of matter with its structure and behavior at the atomic scale.
3. Communicate effectively using common chemical conventions and notation.
4. Evaluate available information to plan, perform and interpret basic laboratory experiments.

Grading

Grades will be based on laboratory experiments, three midterms, three quizzes and a final exam.

Grades will be broken down as follows:

Lab Grade: 25%
3 Exams: 15% each (45%)
4 Quizzes: 5% each, lowest quiz will be dropped (15%)
Final: 15%

Final Grades will be assigned according to the following scale:

A 88% or above
B 75-87%
C 60-74%
D 45-59%
F 0-44%

In order to pass this course you must *complete* 9 of 12 laboratory experiments. More than three zeroes on lab reports will result in a semester grade of F. All zeroes will affect your grade. Completing a laboratory means you must attend the lab, conduct the experiment, and turn in your lab report completed with honest effort. Please see the instructor if you need further clarification.

Special note if you receive a grade of F in the laboratory portion of the class, you will not be able to receive a passing grade (C or higher) for the course overall. For example, if you receive a 30% in lab, even if you get A grades on all of your exams, your grade for the course will automatically drop to a D.

Objective factors (such as exam scores and laboratory report scores to which numerical values can be assigned) and subjective factors (such as effort, improvement, initiative, honesty, participation, academic growth, etc., which cannot be easily tagged with a number) will be taken into consideration at the end of the semester when letter grade assignments are made.

Examinations

A total of three "midterm" examinations, each covering several chapters will be administered on scheduled dates. There will be **no** make-up examinations given. If an examination is missed, a score of zero will be recorded. On each examination, you are responsible for all lecture topics and textbook assignments to date as well as all experiments that have been performed as part of the course.

Any, or all, midterm examination score(s) can be improved by a superior score on the corresponding section(s) of the final examination. Where improvement is demonstrated,

the "midterm score" that will be used in the computation of your overall semester score will be the **average** of the two scores.

Homework:

Homework problems will be assigned from the textbook. Homework assignments are to be done to reinforce your reading and as practice for the exams. Homework is not formally graded, but if you hand in completed homework at each exam, it will be noted and incorporated into your grade as extra credit at to the instructor's discretion. It is also recommended that you work other problems in your textbook as additional practice for the exams.

Regrades:

If you feel the instructor has made a mistake in grading, you must submit the assignment in question within 7 days after receiving it. If you submit an assignment for a regrade, the entire assignment will be regarded, which could result in a score that is higher than, lower than, or equal to the original grade.

Attendance:

Lecture starts promptly at noon. Please be prepared to commence note taking at this time.

You may not make up exams unless you have a written excuse and the instructor is notified in advance.

Late Work:

Late work is not accepted unless authorized in advance by the instructor. If authorized, a grade penalty may apply.

Emergency Information

In the event of an emergency, remain calm and take deliberate action as necessary. In an earthquake, seek cover from falling objects. In most other situations, your instructor will have time to tell you what to do. In the event of an evacuation, turn off any flame or heat source you are using and go to the lawn between Bech, Shuhaw and Baker halls. This is our designated assembly area. Wait here, as your instructor will take roll. Copies of the red Emergency Preparedness Handbook are posted throughout the building and have more detailed information and procedures for most imaginable emergencies. Any type of emergency can be reported to the District Police Dispatcher at (707) 527-1000.

Accommodations for Students with Disabilities

If you need disability-related accommodations for this class, such as a note taker, test-taking services, special furniture, etc., please provide the Authorization for Academic Accommodations Letter from the Disability Resources Department (DRD) to your instructor as soon as possible. You may also speak with me privately during office hours about your accommodations. Please fill out any paperwork necessary for testing accommodations in advance of the exam, and keep me informed of what you need. If you have not received authorization from DRD, contact the office directly. It is located on the third floor of Bertolini, room 4844 (phone 527-4278).

Academic Decorum

Please be punctual in arriving to class. If you arrive late, enter quietly. If you must leave early, sit where you can leave with minimal disruption to other students and the instructor. Please also respect the desire of others to learn and do not whisper or talk during lectures. Side conversations are disrespectful to the instructor and make it difficult for other students to hear and concentrate. Cell phones must be silenced during lectures and labs.

Standards of Conduct

All students are expected to complete all assignments and examinations with **total honesty**. This responsibility rests primarily with each individual and his/her conscience, but to maintain high morale and a healthy learning environment, we will not hesitate to take action, including expulsion from the course, with a corresponding grade of “F”. During examination periods, there will be no inter-student communication. If any questions or problems arise, direct them to your instructor.