

## INFORMATION FOR CHEM 101A – FALL 2009

Welcome to Chem 101A! Here are the course policies for Fall 2009: please read these carefully. If you have questions that are not covered in this handout, please feel free to ask.

### INSTRUCTOR INFORMATION AND OFFICE HOURS

#### Lecture section 001 (Tuesday/Thursday 8:00-10:00, Room S-136, CRN 72888)

Instructor: **Torrey Glenn**

Office: Science Hall 241

Email: [tglenn@ccsf.edu](mailto:tglenn@ccsf.edu)

Telephone: 415-239-3893

Office hours: Mon/Weds 12:30-1:30

#### Lecture section 002 (Tuesday/Thursday 10:00-12:00, Room S-136, CRN 72890)

Instructor: **Jim Armstrong**

Office: Science Hall 252

Email: [jarmstro@ccsf.edu](mailto:jarmstro@ccsf.edu)

Telephone: 415-452-5397

Office hours: Mon/Weds 1:30-2:30

#### Lecture section 003 (Monday/Wednesday 12:00-2:00, Room S-204, CRN 78893)

Instructor: **Tim Su**

Office: Science Hall 251

Email: [tmsu@ccsf.edu](mailto:tmsu@ccsf.edu)

Telephone: 415-452-5647

Office hours: to be announced

You may go to any Chem 101A instructor's office hours for assistance with course material.

**COURSE WEB SITE:** [www.ccsf.edu/chemistry/chem101a/](http://www.ccsf.edu/chemistry/chem101a/)

This website will contain all assignments, answer keys to all homework, quizzes and exams, and all supplemental materials.

### PREREQUISITES

To enroll in Chem 101A, you must satisfy the following two prerequisites. *Our registration system will not allow you to enroll in Chem 101A until you have satisfied both of these prerequisites.*

1) **Mathematics:** you must pass Math 860 or a higher math course, or you must place into Math 90 or a higher course on the CCSF algebra placement exam. If you have taken an appropriate math course at another college, you need to bring your grade report or transcript to the CCSF Matriculation Office, Conlan Hall 204. If you have only taken math in high school, you must take the placement test.

2) **Chemistry:** you must pass Chem 40, or you must place into Chem 101A on the CCSF chemistry placement exam. *We do not accept courses at other colleges that are equivalent to Chem 40.* If you have taken a course that is equivalent to Chem 101A at another college, we will allow you to enroll in Chem 101A if you bring a grade report or transcript to Dr. Ray Fong, chair of the chemistry department, Science Hall 236. You may also enroll in Chem 101A if you have a score of 3 or higher on the AP exam; bring your test report to Dr. Fong.

## REQUIRED TEXTS (lecture and laboratory)

- 1) Zumdahl, **Chemical Principles**, 6<sup>th</sup> edition, Cengage Publishers (2008). You may also use the 5<sup>th</sup> edition of this book.
- 2) Hummel and Zumdahl, **Partial Solutions Guide**, 6<sup>th</sup> edition, Cengage (2009).
- 3) **Chemistry 101A Laboratory Manual**, CCSF Chemistry Dept., 11<sup>th</sup> edition (2003).

These texts can be purchased at the college bookstore. A very limited number of copies of the textbook are available at the reserve desk in the college library, but you should **not** attempt to take Chem 101A without purchasing the textbook. We realize that textbooks are very expensive, and we encourage all students on limited financial resources to visit the college financial aid office. The Associated Students also runs a textbook loan program for selected courses.

## OTHER REQUIRED MATERIALS

Scientific calculator (a cell phone is not an acceptable substitute)  
Laboratory notebook (your lab instructor will tell you what type to buy)  
Safety glasses or safety goggles

These are available at the college bookstore annex, across Phelan Avenue from the main bookstore. The chemistry department has a limited number of used safety glasses and goggles available for purchase at the storeroom (Science Hall 203).

## LABORATORY REQUIREMENT

In addition to being enrolled in one Chemistry 101A lecture section, you must also be enrolled in one Chemistry 101A laboratory section, which meets for three hours twice a week (on Mon/Wed or Tues/Thurs). You may enroll in any lab section that does not conflict with your lecture; all lab sections will do the same set of experiments. ***Regular attendance in the laboratory is required.***

The lab component of Chem 101A is worth a total of 100 points. Each laboratory instructor will outline his/her grading procedure. *All laboratory grades may be normalized (i.e. adjusted) to ensure fairness of grading across all lab sections.*

## LECTURE ATTENDANCE

In order to ensure that all students gain the maximum benefit from lecture, we ask that you observe the following:

- 1) *Turn all cell phones to "silent" mode*, and do not use your cell phone during class time. (If you wish to use it for text messages or similar tasks, please sit in the back of the room where you will not distract other students.)
- 2) Please arrive on time – it is very distracting to other students when a number of people arrive late, one after the other.
- 3) Please do not plan to leave early unless you have no choice. If you must leave early, sit on the aisle and let the instructor know what time you will be leaving.

We encourage you to participate actively in lecture. You are welcome to ask questions during class time, but please be aware that your instructor may need to refer you to his/her office hour if your question is outside the scope of Chem 101A.

## **PROBLEM ASSIGNMENTS/HOMEWORK**

There will be a 5 point required homework assignment for each topic in Chem 101A. These will be posted online (we will not be handing them out), so it is your responsibility to print them out. We will post solution keys online to assist you in solving the problems, but we expect you to solve the problems on your own as much as possible. You will get full credit as long as you do most of the problems, but we reserve the right to give part credit if you do not. If you turn in the homework after it is due, you will lose 1 point. Homework that is turned in more than two weeks late will receive no credit.

We will also hand out a list of relevant problems from the textbook for each topic, and we will occasionally make additional problems available on the Chem 101A website. Answers to all of these problems will be available in the solutions manual or on the web site. We will not collect or grade these, but it is your responsibility to make certain that you can work **all** of the assigned problems, not only those that you are required to hand in. We cannot emphasize too strongly that *the only way you can learn chemistry is by doing chemistry – the more problems you do, the better you will get.*

## **QUIZZES AND EXAMINATIONS**

There will be three exams during the semester. Each exam will take the full lecture period, and will cover concepts from lecture and laboratory. The exam topics are listed in the course schedule, but since chemistry is a cumulative discipline, you will be expected to understand and apply the material from earlier parts of Chem 101A on the later exams. There will also be a cumulative, three-hour final exam at the end of the semester. The exam dates are listed in the course schedule handout.

***No make-up exams will be given for any reason.*** If you miss one exam, you will be assigned a “make-up” grade for that exam based on your performance on the relevant material on the final exam. (This is usually to your disadvantage, so *do not* miss an exam just because you “don’t feel prepared”!) If you miss two exams, you will be dropped from the class or given an “F” at our discretion.

## **ADDITIONAL ASSIGNMENTS**

Each lecture instructor will give one or more additional assignments. These may be quizzes, research projects, or additional problem sets. These assignments are required and will be worth a total of 25 points. Your instructor will give you specific information during lecture.

## ADDITIONAL HELP IN CHEM 101A

If you find that you need additional help with the material in Chemistry 101A, you may wish to consider the following resources:

1) **Chemistry C** is a one-unit class that provides assistance in solving problems of the types found in Chem 101A. There are no exams or homework assignments in Chem C, and enrollment is limited to allow individual attention from the instructor. Grading is credit/no credit, and is based on attendance and your final grade in Chem 101A. This course meets on Thursdays or Fridays for one and a half hours each week. We offer two sections of Chem C, both taught by Torrey Glenn:

- Friday 9:00-10:30 (Sec 001, CRN 77834)
- Thursday 1:00-2:30 (Sec 002, CRN 74851)

2) **Drop-in tutoring** is available through the Learning Assistance Center (located on the 2<sup>nd</sup> floor of the library, room 207) and the STEM Center (located in Bungalow 201). Tutoring is done by CCSF students who have completed Chem 101A with distinction. There is no cost for this service. We will post tutoring schedules as soon as they are settled.

3) **Supplemental Instruction (SI)** sections and Study Groups meet weekly for 1 hour and focus on study skills, planning, organization, and course content. SI sections consist of approximately 10 students; Study Groups consist of 3 to 6 students; SI/Study Groups will be led by former 101A students who were specially selected and trained to lead these collaborative learning sections. Enrollment in SI/Study Groups will be limited and is awarded on a first-come-first-serve basis. If you sign up for SI or a Study Group, you will be expected to participate throughout the semester. We will give more information about SI sections and study group opportunities during lecture.

CCSF does not offer private tutoring. If you wish to find a private tutor, you should check chemistry department bulletin boards at local four-year colleges (San Francisco State, University of San Francisco, U.C. Berkeley, Cal State East Bay, etc.).

## GRADING

Your grade will be determined by the total number of points accumulated from the following sources:

|                                  |                    |
|----------------------------------|--------------------|
| 9 homework sets (5 points each)  | = 45 points        |
| 3 examinations (100 points each) | = 300 points       |
| Final examination                | = 200 points       |
| Laboratory work                  | = 100 points       |
| Additional lecture assignments   | = <u>25 points</u> |
| TOTAL                            | = 670 points       |

**Approximate grading scale** (based on recent semesters):

A: 85-100%      B: 75-85%      C: 60-75%      D: 50-60%      F: 0-50%

*(This scale is approximate and may be revised upward or downward for the current semester.)*