

CHEMISTRY 10: INTRODUCTORY CHEMISTRY COURSE INFORMATION FOR Spring 2008

MEETING TIMES:

LECTURE: Tues & Thurs, 8:45-11:00 a.m., Sci 153;

LAB: Mon, 8:45-11:00 a.m., Sci 332

COURSE HOMEPAGE: http://homepage.smc.edu/merlic_jennifer, click on *Chem 10*

INSTRUCTOR CONTACT INFORMATION: Dr. Merlic, merlic_jennifer@smc.edu, (310) 434-4616, Science 263

OFFICE HOURS: I am available immediately after class on Mondays, Tuesdays, and Thursdays until 12:00. I will also answer questions posted to the Q & A (Question & Answer) discussion boards on the Web at <http://www.smc.edu/ecompanion/> Sunday through Thursday evenings between 9:00 and 11:00. Please post your questions before 9:00 p.m. if you would like a same-day response. Your login to eCompanion is your SMC student ID number, and your password is your date of birth in the format MMDDYY. Note: Send me email *only* for personal issues! If you have a question related to the course content and/or the assignments, it should be posted to the discussion board on eCompanion so all members of the class will have access to the information.

PREREQUISITE: Math 31 (elementary algebra) with a grade of C or better.

COURSE DESCRIPTION: This course is an introductory laboratory course that fulfills the prerequisite for Chemistry 11. It introduces principles, laws, and nomenclature of inorganic chemistry and organic chemistry. UC gives no credit for Chemistry 10 if taken after Chemistry 11.

REQUIRED MATERIALS:

- Chemistry, Zumdahl and Decoste, Sixth Edition. Comes packaged with a solutions manual.
- Laboratory Manual: Available online from my homepage. Click on *Online Lab Manual*, then on *Chem 10 Experiments*. Print only those experiments listed on our class schedule!
- Laboratory Notebook: A three ring binder in which you can organize your laboratory work.
- Safety Goggles: Required for lab work. Safety glasses are not acceptable. If you wear prescription glasses, your safety goggles must be worn over them.
- Blue Laboratory Locker Card: Available at the SMC bookstore for \$10. At the end of the course, you will be eligible for a \$5 refund if you return all your equipment unbroken.
- Calculator: Basic scientific calculator capable of doing scientific notation and logarithms. **Programmable, graphing and cell phone calculators are NOT PERMITTED!**

OPTIONAL MATERIALS:

- Lab coat or apron to protect your clothing from chemicals.
- Molecular model kit for General Chemistry (also available for student use in the Science LRC).

STUDY SUGGESTIONS: Read the book!! Read each chapter **before** we cover it in class. As you read, make an outline of the important topics on a sheet of paper. Research shows that **writing** information helps people learn it much better than just reading it. It also keeps your attention more focused on the material you are reading. Also, if you do the reading **before** class, you will be able to take fewer notes and allow you to spend the class time really listening and learning.

HOMEWORK: Homework assignments are due at 11:59 p.m. on the Monday after we finish each chapter in our textbook. The dates are indicated on the WebAssign course homepage. Answers are to be submitted online at <http://www.webassign.com>. Late homework will be accepted but will not receive full credit. You can request an extension from within WebAssign. If you do, it will automatically give you 2 more days from the date of the request, but you will lose 5 points off your homework score for that assignment. You can get up to 3 extensions on each assignment, but none after one week past the original due date. Your average score on all your homework assignments will contribute 5% to your overall course grade. Homework problems are taken from the end of chapter problems in the book. Many have the solutions worked out in the solutions manual. However, you need to work hard on each problem on your own before you look at the solutions manual or you will not learn to solve problems and you'll be in trouble on the quizzes and exams! During the first week of class, you will be given an access code to use WebAssign for free and instruction on how to use this online homework tool.

QUIZZES: We will have a brief quiz promptly at 8:45 every Tuesday morning covering the previous week's material. Your lowest quiz score will be dropped. There will be no makeup quizzes. If you are late and miss a quiz, that is the quiz that will be dropped from your grade. Your average on your quizzes will contribute 15% to your course grade.

EXAMS: Two examinations will be administered during scheduled lecture time. Your average score on these exams will contribute 40% to your overall grade for the course. See the class schedule for exam dates. Each exam will cover all of the material covered in the course (including lab) prior to the date of the exam, with a heavy emphasis on material presented since the last midterm exam. **No makeup exams will be given!** If you have an illness or emergency that prevents you from taking an exam, you must contact the professor as soon as possible and provide documentation of your emergency. With professor approval only, your scores on the other three exams will be weighted more heavily to make up for the missing exam. Exams may be submitted for regrading within two class days of their return to students. Requests for regrades must be submitted in writing. Erased or modified answers will not be regraded. Students who submit modified exams for regrading are violating the academic honesty code and may receive a failing grade for the exam and/or the course.

LAB REPORTS: To prepare for your experimental work each week:

- Print and read the entire background and procedure for that week's experiment,
- Login to WebAssign and complete the Prelab Assignment for each experiment, and
- Print the Lab Report form for each experiment.

This work **MUST** be done before you come to lab each week. The procedure and lab report documents are available from our *Online Lab Manual* and must be brought to lab with you. Use the link on my homepage (http://homepage.smc.edu/merlic_jennifer) to access them. Prelab assignments are mandatory. If you do not complete your prelab by 8:30 a.m. on days we have lab, it will not be accepted and you will not be allowed to conduct the experiment for that week. You must do your prelab on your own. It is cheating to use prelabs or lab reports from previous Chem 10 students. Prelab assignments are worth 2 points per lab. **Note that we do not do all the labs on the website, nor do we do them in order, so you must check the class schedule each week to find out what lab(s) to prepare for!**

As you perform your experiments, you will use the lab report form to record your data and observations, to perform any required calculations, and to answer questions about the experiment. **All raw data MUST be recorded in ink!** Do not write it in pencil, then copy it over later. Calculations and questions may be answered in pencil. Each lab report will be worth 8 points. Together with the prelab assignment, each experiment is worth a total of 10 points. Your lowest lab score will be dropped from your final grade. The average of your remaining lab scores will contribute 15% to your overall course grade. There will be no makeup labs. If you miss a lab, you will receive a 0 and that is the score that will be dropped from your lab average.

Keep all your lab documents together in one three ring binder or you'll find it becomes quite a mess. Laboratory work is related to the lecture material and your exams may include questions on the experiments you performed, so it's a good idea to go over your correct labs carefully and be sure you understand them.

FINAL EXAM: One **comprehensive** final examination will be administered on **Thursday, June 5 from 8:00 to 11:00 a.m.** in Science 153. Note the early start time! The final exam contributes 25% to your overall course grade. These exams will not be returned to the students. If you wish to examine your graded final, you may do so by contacting me.

GRADING: Your final grade for the course will be computed as follows:

Assignment	Percent Weight
Exams, average of two:	40%
Quizzes, average w/lowest dropped:	15%
Homework, WebAssign average:	5%
Labs, average w/lowest dropped:	15%
Final Exam:	25%
Total:	100%

A	90-100%
B	76-89.9%
C	60-75.9%
D	40-59.9%
F	0-39.9%

Extra Credit: You can earn extra credit in this class as follows:

Attend a Distinguished Scientist Lecture Series Seminar and write a 1 page summary of the topic	+0.5% on course grade	http://events.smc.edu/science.html
Join a Sustainable Crew and complete all the requirements	+2% on course grade	http://www.smc.edu/ceus/sustainable_works