

Course Description: A survey of basic concepts in general, organic and biological chemistry relevant to the allied health science fields including nursing, radiological technology, respiratory therapy, etc.

Pre-requisites: Completion of MATH 110, or equivalent, with a grade of C or better.

Instructor: Dr. Jeanette Medina
medinaj@smccd.edu Please use CHEM 410 as the subject
Office 18-304

Office hours: Monday at 12:30 to 1:30pm in 18-304; Tuesday at 11-12 in 18-304 and 5:30 to 6:00pm in 18-319; Thursday at 11:00 to 12:30am in 18-304; Friday by appointment only.

Class meetings: Class meets Tues evening from 6:00-9:00. When class starts with a lab exercise we will meet in 18-311. If class starts with classroom activities we will meet in room 18-319. Check the weekly schedule in WebAccess to find out which room we will be using to start each class.

Required textbooks and materials:

Frost, L., Deal, T., and Timberlake, K.C., General, Organic & Biological Chemistry: An Integrated Approach, 1st Edition, Prentice Hall, a Division of Pearson Publishing. ISBN 978-0-8053-8178-8

Safety Goggles – must seal face with indirect ventilation

Calculator

Course Objectives: The overall objective of this course is for students to gain a solid foundation in general chemistry and an overview of organic chemistry and biochemistry in preparation for further study of applied chemistry and pharmacology.

The following are some of the student learning outcomes that have been identified:

- 1: Identify and name elements, ionic compounds and covalent compounds; and differentiate between symbols and formulas
- 2: Describe the effect of altering the pH of the environment on a weak acid or weak base
- 3: Identify functional groups on large complex biochemical molecules
- 4: Communicate the basic reactivity of the functional groups on biochemical molecules
- 5: Gather and assess information about the chemical properties of pharmaceutical agents

Important Dates to Remember:

- Jan. 14 – First Day of Class – This class will not allow late adds. You must have logged in and completed the introductory assignments in order to stay enrolled.
- Jan. 28 – Last Day to DROP and be eligible for a partial refund
- Feb 3 – Last Day to withdraw without a “W”

April 1-7 Spring Recess
April 25 - Last Day to withdraw with a "W"
May 21 – Final Exam

Academic Integrity:

Academic integrity is a very serious matter. Cheating on an exam, copying a lab report or another student's data or other instances of cheating will result in a 0 on that assignment. In addition, a violation of academic integrity report will be filed with the VPSS. Copies of the school's policy can be found at: http://www.canadacollege.edu/inside/acad_integrity/index.html

Grading: Students will be graded on both class work and laboratory work, using the following grading scale:

90-100% = A
81-89% = B
71-80% = C
61-70% = D
< 61 = F

Your grade will be determined by the following (subject to change):

Comprehensive final exam	15%
4 midterm exams (each 12.5%)	50%
Laboratory Activities	20%
Paper	5%
Other assignments, quizzes (TBD)	<u>10%</u>
	100%

- The lowest lab grade will be dropped, thus allowing for one missed lab.
- No make-up exams will be given. The lowest grade on the mid-term exams will be dropped, thus allowing one missed exam.
- Students with an A and completion of all labs and midterms, will be exempt from the final exam. (No lowest lab grade or midterm will apply to this option)

Tentative dates for Midterm Exams:

February 19
March 26
April 23
May 14

Final Exam is scheduled for Tues May. 21st beginning at 6pm.

Homework will be assigned, but not collected or graded. However, you will find it in your best interest to complete the homework. If you purchase the book new, you will receive access to an on-line homework system called Mastering Chemistry. We will not be formally using this system for this class, but many students find it quite useful.

Other Class Policies:

1) Students are expected to attend class and lab, but attendance will not be taken. This is a hybrid class with 50% of the course on-line. This means that you should have regular access to the internet and be comfortable using the computer. The course site that we will be using is WebAccess. Point your browsers to <http://smccd.mrooms.net>. Log on with your G-number and use your 6-digit birth date as the password (unless you changed your default password).

The hybrid format means that there is a reduction in the classroom time, but not a reduction in the amount of work that is expected of the students. In fact, many students find that on-line or hybrid classes seem to take more time. This is because students are expected to complete much more of the class work at home, i.e. what might normally be done in class will be done by the students at home.

2) Please be courteous to your fellow students and leave cell phones off during class.

Laboratory Guidelines:

- Safety is our primary concern, so safety rules must be followed at all times
- Eye protection must be worn during laboratory activities as long as any student in the room is working.
- Disregard for safety may result in dismissal from the course
- At the end of each experiment, students are responsible for leaving the lab ready for class the next day.
- Pre-lab assignments should be completed before coming to class.
- Lab reports are generally due at the end of each lab. Exceptions will be noted in class.
- There will be no make-up labs.
- Never leave an experiment unattended and unauthorized experiments are forbidden.