Chemistry 130
Physiological Chemistry
(Satisfies Umass/Boston Nursing Requirements - It is a 1 Term Chemistry Class)

Information About Me
- Caren Seagraves
- Office: Science 1-130
- Email: centercls@gmail.com or caren.seagraves@umb.edu
- Phone: 617-287-6113
- Office Hours
  - Monday 1:00 - 2:00
  - Thursday 10:00 - 12:00 & 1:00 - 2:00
  - (Or by Appointment)

What’s Online
There is a course website – You can get there from the Department Website or http://alpha.chem.umb.edu/chemistry/ch130/
- Syllabus
- Powerpoints used in Lecture
- Homework Assignments
- Answers to Some Homework Problems
- Keypoints
- Additional References

Course Text

Chapters 18-29 relate to Physiological Chemistry. The first part of the course is general chemistry and these is no text for this. Support through lecture, homework, discussion sections and other references that will be on the website.
Leave Enough Time to Study

It is very important to set aside some definite time periods as study time (and only study time) as well as making good use of scraps of time throughout the week. ... You should be able to do this regardless of your work schedule. ... Allow at least 2 hours for each hour of lecture, and 2-3 study hours for each 3 hours of laboratory.


And 1 hour/Discussion

CHEM 130 requires 7 hours of class time / week.

- Lecture (MWF at 9:00) (3 hr/wk)
- Discussion (M or W)(1 hr / wk)
- Lab (3 hr/wk)

You will need a lot of study time.

Study Time = 6hrs + 1hr + 2 hr = 10 hr/wk.

Components of Your Chem 130 Grade

You must pass Lab in order to pass the class.

- All Regular Exams
- Final Exam
- Labs

Four Exams in Lecture

One 3 hour Exam during Finals Week.

Grade Assignments

You need to learn over 1/2 of the material to just get a D.

To get a high grade you will need to master a lot of material, this will require quite a bit of effort.
**Exams**
- There are 4 Regular Exams that will be given during the lecture period.
- An approximate Exam Schedule is given in the course schedule. This schedule may be changed. Don’t count on it alone.
- Occasional Quizzes-Extra Credit for the Regular Exams
- A Final Exam after the lectures end

**Laboratory**
- Meets most weeks (There are 10 labs in all)
- There is no makeup lab
- Your lowest lab grade is dropped
- Completed Lab Exercises are handed in at the end of the lab class
- Each Lab’s instructions are on a handout that is available on the course website.
- You must pass Lab in order to pass the course.
- You must complete at least 6 labs in order to pass the course.

**Lab Expectations**
- Each Lab’s instructions are on a handout that is available on the course website. Print the lab instructions out and bring them to lab
- Do your best in lab
- Hand in the part of the instructions for grading at the end of the lab period
- Neatness, quality of Lab work, and understanding count toward your lab grade
- You must attend lab in order to receive credit for the lab

**Discussion**
- Work with your classmates
- Have your questions answered in a smaller setting
- See example problems worked
- Participate in discussion that expand on concepts presented in lecture
- Learn new applications of material presented in lecture

Attending Discussion will help you do better on the exams and in lab.
Overview of the Term

I. Classification of Matter/Units and Numbers
II. Periodic Table & Ions and Molecules
III. Understanding Pure Substances and Solutions
   IV. Types of Reactions
   V. Acids and Bases
   VI. Thermochemistry
   VII. Proteins
   VIII. Carbohydrates
   IX. Lipids
   X. DNA (Nucleic Acids)