CHEMISTRY 130
Physiological Chemistry
UMass/Boston
Spring 2009

Instructor/Course Coordinator: Prof. Caren Seagraves
Office: S-1-130
Telephone: (617)287-6133
Email: centercls@gmail.com or caren.seagraves@umb.edu
Course website: http://alpha.chem.umb.edu/chemistry/ch130

This is a one semester introduction to the fundamentals of chemistry as they relate to human biological chemistry. This course consists of lecture, laboratory, and discussion. **You must be enrolled in all three parts of the course.** NOTE: This course is designed to satisfy the chemistry requirement for the UMass/Boston Nursing program. Please check that your program needs only a one semester chemistry requirement.


This custom edition has Chapters 18-29. These chapters cover only the biological chemistry part of the text, however, the complete text is on reserve. This course covers a huge amount of material during this one semester. Do not fall behind! And, work daily on this course. Expect to spend at least 10 hours a week studying for this class.

**Course Components**

**Lecture:** Lecture is on Monday, Wednesday and Friday at 9:00 in the Lipke Auditorium in the Science Center. Attend lecture. Though copies of the powerpoints used in the lecture are available online, material will be covered in lecture that is not mentioned in the powerpoints. I recommend printing out copies of the powerpoints and reviewing copies of the powerpoints before lecture. This will introduce you to the topic that will be covered and give you a chance to make notes on the powerpoint pages.
Occasionally there will be a quiz in lecture. There will be no makeup for one of these quizzes. Exams will also be given during lecture period.

**Discussion:** Discussion is a chance to go over the material that is seen in lecture in a smaller group, and to work with classmates. I will be available to answer questions that you have about the homework or lecture, provide additional work to do with the support of myself and your classmates, and expand on topics introduced in lecture. Students commonly report that working with their classmates in Discussion, as well as having a chance for attention in small groups, is extremely helpful. Data backs up the idea that participation in Discussion increases the grades students receive in science courses. Occasionally there will be a quiz in Discussion. There will be no makeup for these quizzes.

**Laboratory:** Lab will begin the week of Monday, February 2nd. The laboratory experiments for this course are available on the course website. Please print out the experiment before your lab and take this printout to your lab class. Lab reports are due at the end of each lab period; and are submitted on report sheets that are part of the the lab experiment printout. These reports will be graded on the basis of results, understanding, scientific approach, and neatness. *There are no make-up labs.* Your lab grade will be calculated on the basis of the total points earned on the best nine of your ten lab reports. If you do not have nine reports, the missing reports will be given a grade of 0. A minimum of six (6) lab reports is necessary in order to pass the lab. And, *you must pass the lab in order to pass the course.*

**Classwork**

**Homework:** Homework Assignments will be made daily and updated on the class website. The homework will not be collected, but similar problems will be considered in Discussion, and answers to some of the homework problems will be available. Be sure that you do not fall behind on homework. Get help in the Discussion Sections, and in office hours immediately if something does not make sense.

**Exams:** There will be four (4) exams during lecture times. Each exam will be 50 minutes long. Out of these 4 exams only the 3 best grades will be used to calculate your course grade. *There are no make-up exams.* If you arrive late for an exam, you will not be given extra time. Tentative exams dates are given as part of the syllabus, but these dates may change.
A cumulative final exam will be given during the final exam period; you will have three hours for this final exam. The exam will cover all of the material seen over the semester. The final exam time will be scheduled by the Registrar. It will occur, after classes have ended, during the final exam period.

*(If an exam is scheduled on a day of inclement weather and the University has not cancelled classes, the exam will be given as scheduled - if at all possible. However, if the University has cancelled classes, the exam will be given in the next class meeting.)*

**Quizzes:** Occasionally there may be a short quiz in Lecture or Discussion Section. If given, these quizzes will be used as extra credit for exams.

**Grades**
You *must* have taken three regular exams, and the final, and pass the laboratory portion of the course in order to pass the course.

If the requirements mentioned above are met your course grade will be based on your exams and laboratory grades. Regular exams will count for 45% of your course grade, your Final Exam for 30% or your course grade, and your laboratory reports for 25%. Letter grades will be assigned based on the total as follows

<table>
<thead>
<tr>
<th>Total %</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>78-88</td>
<td>B</td>
</tr>
<tr>
<td>62-77</td>
<td>C</td>
</tr>
<tr>
<td>55-61</td>
<td>D</td>
</tr>
<tr>
<td>0-54</td>
<td>F</td>
</tr>
</tbody>
</table>

I do give (+) and (-) after grades for borderlines between these figures.

Incompletes are only allowed under *exceptional* circumstances, and are never granted automatically. This means that if you think you qualify for an incomplete, you must request one! The basic requirements for an INC are: (1) you must be passing the course, and (2) you must have an insurmountable reason for not being able to finish the course. INCs are
never given before the withdrawal period has passed

**Academic Conduct**

**Academic Conduct** It is important that you read these sections of the UMass Boston 2005-2007 Undergraduate Catalog: “Academic Standards, Cheating, and Plagiarism” [pp. 352-353], and “Student Rights and Responsibilities” [pp. 355-362].

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*Students who require “extra” accommodations to complete the course requirements must contact the Ross Center in the Campus Center [2-2010 or (617) 287-7430]. They will make appropriate arrangements with me.*

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