Course Syllabus CHEM 201-02
Spring'08

Head Instructor: Christopher Carter
Office: LL37 Phone: TBD
E-Mail: chris.carter@louisville.edu or cscart04@gwise.louisville.edu
Time: MWF 8-8:50 DA110
Sections: 201-02 A, B, C, F, G

Prerequisites: The prerequisites for this course are an ACT score 25 or higher in mathematics or completion of MATH 111 or EAC 100. Completion of one year of high school Chemistry is recommended but not required. Anyone not meeting any of these prerequisites should contact their academic advisor or the head instructor to ensure they are properly prepared.

Materials: The text for this course will be *Chemistry, The Molecular Nature of Matter and Change*, Fourth Edition by Silverberg. Usage of earlier edition texts is not recommended as problems and material do change between editions. The homework problems will be from the 4^{th} edition and any material not covered in 3^{rd} or earlier that is covered in lecture will be your responsibility to obtain. A simple calculator will also be needed for exams and quizzes. It is also recommended for you to take it to all recitations. The calculator needs to be able to do simple math functions and scientific notation (something similar to the TI-30 line is more than adequate). Of note, any use of a calculator with alphabetic memory (i.e. the ability to store and use all 26 letters) is **strictly prohibited**. Anyone found to be using one will have it confiscated and their score lowered at my discretion.

Course Outline: This is the opening course in the mainstream general chemistry series. It is designed for those with interest in science, mathematics, engineering, and similar disciplines. This course fulfills a General Education requirement in Natural Sciences. The course will provide an introduction into many different aspects of Chemistry including ions, gases, stoichiometry, thermodynamics, bonding, compounds, and solubility. Also, I will try to make connections as to "Why this stuff maters in the real world?" throughout the semester. The course covers material in Chapter 1-11 of the text but will be defined by the material covered in lecture.

Course Structure: The course consists of one lecture taught by the head instructor and smaller recitation units taught by Teaching Assistants. Regular exams will be given during the lecture periods with all the quizzes coming during recitation. With lecture groups so large please sit near the front so I can be sure to see your hands for questions as quickly as possible. Also, recitations are designed to be more geared towards student interaction so please use them as such.

Grades: Your grade will be determined from 3 Semester Exams worth 100pts each, 5 Quizzes (25pts) of which the lowest will be dropped providing 100pts total, and one final exam worth 200pts. This combines to be a grand total of 600pts possible for the semester. I will not be using a plus/minus system for this course. The grade brackets are as follows:

A: 87.5-100 **B: 75-87.4** **C: 62.5-74.9** **D: 50-62.4** **F: <50**

Baring mitigating circumstances, THERE ARE NO MAKE UP EXAMS! If a situation arises that will require you to miss an exam please notify the head instructor as soon as possible. A qualifying excuse, most likely with written evidence, will be required. If you cannot inform me before the exam please do so as soon as possible after missing the exam so a solution can be found. If classes are cancelled on the day of an exam the exam will be giving on the next scheduled class meeting. The Final Examination will be combined with the other day 201 section and is scheduled for 11:30-2:00PM Saturday April 26th and will be COMPREHENSIVE. The location of the final will be announced later in the semester.

Dates for all regular exams will be announced in advanced and should be very close to the dates listed on the schedule for the course. All efforts will be placed on getting graded materials returned to students within a week. Tests will be distributed through TA's to recitation sections for pickup. I will post a key outside my office and possibly blackboard.

Weather/Cancellations: Please refer to the bad weather schedule on the Louisville website for the bad weather schedule meeting time for this course if such an event arises. If class is to be cancelled for any reason I will try to inform you all by listserv as soon as I am capable.

Attendance: The only days a student is required to show up for class are on examinations and quiz dates. However, considering the material covered in lecture will be the material you will be tested over it behooves you to attend class on a regular basis. Not only this but also the fact seeing this material often aids in your ability to absorb it and reproduce it when called upon.

Homework: Suggested problems are listed at the end of this syllabus and will be updated if needed throughout the semester. These problems will not be collected nor graded. HOWEVER, these problems are highly recommended for several key reasons. First, some of the topics covered in this course will require practice to master and these problems provide a way to that mastery. Secondly and most importantly to you the student, roughly ONE THIRD of EXAM questions will come DIRECTLY from homework. Read the previous sentence again. The instructor's solution manual is available for this book and one is free to obtain one by their own means to help them work the homework problems (remember to use it as a tool to teach you how to work problems not as an answer guide, I will not be collecting homework for grades). To aid you all in this matter I have started a discussion board on the blackboard website for this course. Feel free to use it but I warn you do not let it be a place to post blanket answers but a way for you all to help answer each other's questions on the method of working these problems. Abuse of this will lead to removal of the discussion board.

Other Notes: All pagers, phones, and electronic devices need to be silenced or turned off during lectures and exams unless a mitigating circumstance arises in which one would need to inform me ahead of time. This is an obvious courtesy not only to myself but other students around you who are attempted to learn or work on an exam. Also, all electronic devices must be kept OUT OF VIEW during exams. You CANNOT use your phone as a calculator on exams. Anyone caught in these infractions can have their scores lowered at my discretion.

This course can be very challenging at times and I recommend that you plan ahead for success to ensure you don't get overwhelmed. Regular class attendance, working recommended homework

problems, reading material before lecture and after, and asking questions are all key ways in which one can aid their ability to perform well in this class. Moreover, there are several alternative methods to help oneself to succeed in this course. The most obvious is using each other as assets; working together in study groups has shown to be extremely helpful to many students through their college career. Also, the REACH department will provide an SI leader for this class who will lead group review on a weekly basis and I will try to work closely with to ensure he/she is informed what materials that students should have mastered for examinations. Tutoring is another option available from REACH and other sources. Don't be afraid to use any or all of these methods as you are here to do well in not only this class but college in general, so set yourself up to finish. I will warn you that this class builds upon itself as the semester goes on, so getting behind early is a very dangerous thing to do that can lead to a very hard time later in the semester and could jeopardize your grade.

Dr. Noble's website has review materials on it that you could use to work extra problems as his problems will be similar to what you will see on exams:
http://louisville.edu/~menobl01/201.htm

On e-mails to me please put a clearly identifying subject heading to ensure it avoids the spam filters (such as Chem 210).

I reserve the right to make changes to the syllabus as the need arises and will inform you through various appropriate means as to the changes when they do occur.

I appreciate you enrolling in the course, hopefully you can find a wealth of knowledge during the course of this semester and we can all have some fun along the way. Good luck and feel free to ask any questions you might have.

-Christopher Carter

COURSE SECTIONS
CHEM 201-02 Spring '08

Lecture	**MWF 8-8:50**	**DA110**
Section 02A:	**F 10-10:50**	**CB LL16**
Section 02B:	**F 11-11:50**	**CB LL16**
Section 02C:	**T 2-2:50**	**NS130**
Section 02F:	**W 10-10:50**	**CB LL16**
Section 02G:	**W 2-2:50**	**NS130**

COURSE SCHEDULE

CHEM 201-02 All Sections
SPRING' 08
Christopher Carter

The following is the tentative course schedule. Any changes will be announced in class and posted to blackboard. As a reminder, ONE THIRD of your exams will come from selected homework problems, so it would behoove you to do them. The questions are listed by chapter and not necessarily the lecture they are presented. Students should master these types of problems and be able to work them efficiently for exams and quizzes.

Date	Chapter	Selected Problems
7/Jan	1	
9/Jan	1	28, 34, 37, 42, 59, 66, 73, 81, 94
11/Jan	2	
14/Jan	2	19, 38, 45, 48, 56 (a,d), 57 (c,d), 59
16/Jan	2	60, 62, 63, 68, 69, 72, 73, 82, 83, 84, 85
18/Jan	2	103, 104, 106 (a,b), 115, 122, 125 (a,b), 146
21/Jan	NO CLASS	
23/Jan	3	10, 11, 12, 14, 16, 17(b,c,d), 18(a), 19(b), 21, 33, 36, 37
25/Jan	3	40, 41, 52, 54, 55(a,c), 56(a,b), 63-66, 68-70, 73, 74,
28/Jan	3	77, 78, 81, 84, 93, 94, 98, 99, 100, 101, 104, 108, 112
30/Jan	3	117, 119, 130
1/Feb	EXAM I	
4/Feb	4	2, 9, 15, 18, 19(a,b), 21, 32, 34, 35, 36, 45, 46(b), 49, 50
6/Feb	4	60, 61(a,c,d), 62-65, 68-71, 74-77, 97, 98, 101, 103
8/Feb	4	109, 117(b,c,d), 125
11/Feb	4	
13/Feb	4	
15/Feb	5	20, 23, 25, 27, 30, 31, 39, 44, 51, 54, 57, 65 (not c),
18/Feb	5	66 (not f), 68, 71, 88, 95, 96(a), 98, 102, 114, 118, 134

20/Feb	**5**	
22/Feb	**5**	
25/Feb	**EXAM II**	
27/Feb	**6**	**10, 11, 33, 36, 40, 51, 52, 54, 58, 63, 64, 66, 73, 75-78, 81,**
29/Feb	**6**	**82(a), 87, 102, 111**
3/Mar	**6/7**	
5/Mar	**7**	**9, 10, 20, 23, 24, 27, 28, 29, 30, 49, 50, 53, 57, 58, 66, 77, 81**
7/Mar	**7**	
17/Mar	**7**	
19/Mar	**8**	**8, 11, 14, 23-25, 28(a), 29(b), 31, 33, 37(a,b,c,e), 38 (a,b,d,e),**
21/Mar	**8**	**44, 53, 56, 57, 59, 64, 75, 77, 78, 79, 82(a,b,c), 83(a,c,d),**
24/Mar	**8**	**85-87, 89(except d,f,g,n,o,r), 103**
26/Mar	**8**	
28/Mar	**9**	**6-11, 17, 26, 28, 54, 65, 66, 68**
31/Mar	**EXAM III**	
2/Apr	**9**	
4/Apr	**9/10**	
7/Apr	**10**	**5, 6, 9, 13, 16, 18, 21, 34-40, 41(a,b,d), 46, 55, 57, 58, 62,**
9/Apr	**10**	**63, 73, 90, 95**
11/Apr	**10**	
14/Apr	**10/11**	
16/Apr	**11**	**2(a,b), 8, 12(a), 14(b), 21, 22(a,c), 24(b,c), 31, 33-37,**
18/Apr	**11**	**38(c,e), 42, 57**
21/Apr	**11**	
29/Apr	**FINAL EXAM**	

The final exam is set for 11:30-2:00 PM on Saturday April 26th. The location will be announced at a later date in class.