SYLLABUS

Lecture: Tues. & Thurs. 10:00-11:45 AM 195 HHS
Recitation: Tues. 12:00-12:55 PM TBA

Instructor: Joel W. Russell Office: 244 SEB Phone: 248-370-2086
Email: Use Moodle email
Office Hours: Mon. & Wed 4:00-5:00 PM, Tues. 2:00-3:00 PM, Thurs. 1:00-2:00 PM

Selected Solutions Manual, Kramer & Shaginaw, Prentice Hall (optional)
Mastering Chemistry Student Access Kit (included with textbook)

Remote unit: iClicker (one unit can be used with all OU classes using iClickers)

Lecture and Recitation
This section of CHM 143 will make extensive use of computer-based materials to assist you in mastering fundamental chemical concepts and problem solving strategies. Using these aids you should develop the ability to “think” chemistry using appropriate macroscopic (laboratory scale), nanoscale (molecular scale), and symbolic (equations, models, graphs) representations.

New concepts and problem solving techniques will be presented in lectures via discussions, overhead projector presentation, computer-based presentation, and live or tape demonstrations. During lectures you will work in teams of four-five students to develop responses to in-class exercises. You are encouraged to work on homework with other students in the class. During each classroom session three or four “iClicker (iC)” questions will be utilized and contribute toward your grade (0.5 point for any answer or 1.0 point for correct answer). Quizzes and other written exercises will be given each week during recitation so absence from recitations will directly impact your grade.

Grading

MasteringChemistry homework (11 at 20 pts. each with 180 max.) 180 points
iClicker in-class personal questions (92 at 1 pt. each with 80 max.) 80
Quizzes (10 at 20 pts. each with 180 max.) 180
Hour exams (3 at 100 pts. each) 300
Final Exam 200
TOTAL 940

The final course grade depends upon two percentage numbers – the percent of the highest reasonable score (HRS) and the percent of the final exam. By using the HRS rather than 940 points, points for quiz and exam questions and homework problems that had flaws are neglected. The course grade is determined by the percent of HRS as shown below as long as the percent of the final exam exceeds the minimum values shown for the final exam. If the percent of the final exam is higher than the percent of HRS, the final exam percent will replace the HRS percent to determine the course grade.**
For example, if your %HRS is 80% and final exam is 65% you have the minimum final percent
to receive a “B” grade (3.0-3.5). Thus based on the 80% HRS you would receive a 3.3 grade.
However if you had a 64% on the final exam with a 80% HRS you would receive a 2.9 grade
since you did not have the minimum final exam percent for a “B” grade. With a 80% HRS
score and a 85% on the final exam you would get a 3.6 grade as determined by the final exam
percentage.

For both quizzes and homework the maximum number of points that will count are less than the
maximum possible points. The values shown mean that you can miss one quiz and two
homework sets and still obtain the maximum points. There will be no make-up quizzes or
exams. If you miss one exam, you will receive a score equal to your average on the other
exams scaled by the class averages on these exams.

Tentative Schedule of Lectures, Homework, Quizzes, and Exams – CHM 143 – Fall 2007

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<th>Quiz/Exam</th>
<th>Date</th>
<th>Text Sections</th>
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10/18 Last day to withdraw from class with a tuition refund and not receive a “W” grade.
11/6 Last day to withdraw from class.

MasteringChemistry

Homework assignments are found at [http://masteringchemistry.com](http://masteringchemistry.com). Each assignment
covers one chapter and consists of a combination of tutorial problems and end of chapter
problems. Homework assignments are available after the first lecture for that chapter and
are due at the start of class on the dates shown above. Tutorial problems are segmented
into several steps with hints available at each step. You will lose 3% of each questions
value for each hint opened. You will gain 2% if you don’t open hints. You may attempt
each question five times but you lose 3% of its value each time you enter a wrong
answer. For multiple choice questions with X possible answers for each incorrect answer
you will lose (question value/X-1) points. Any total homework score > 180 points (out
of 220 possible points) will be set to the 180 points maximum for homework.
iClicker
Three to five (average four) iClicker questions will be asked each class period. These questions will ask you to pick from five multiple choice answers to a question displayed on the screen. The first question each class will be a review question from the prior class. You will receive 0.5 points for any answer to a question and an additional 0.5 points for the correct answer. Some questions will be survey questions for which all answers will be given 1 point. There will be about 92 iClicker questions used during the course with iClicker total scores > 80 given the 80 point maximum for such questions.

Moodle
Moodle is the electronic classroom support system used at Oakland University. You will use this system to view course materials including: electronic copy of this syllabus, instructions for registering and use of MasteringChemistry, instructions for registering your iClicker unit, copies of PowerPoint presentations used in class, notes on homework or quizzes the instructor feels would be helpful for the entire class, and online practice exams. You will login to Moodle at http://moodle.oakland.edu using your OU email username and password.

Cell Phones
In order to not disturb your neighbors all cell phone must be switched off or put in vibrate mode when in class. If you receive an emergency call, you must go to the hallway before speaking on the phone. During quizzes and exams all cell phones must be stored in a backpack, purse, or coat pocket. Anyone observed using a cell phone during a quiz or exam will lose 50% of the points for the quiz/exam.

Cheating
Cheating on quizzes and examinations will be treated very seriously and will impact your course grade and possibly your standing as a student. All cases of suspected cheating will be referred to the Academic Conduct Committee. After a hearing by the committee students found guilty may face probation, suspension, or dismissal. All quizzes and exams are photocopied prior to their return. If you belief a questions has not been graded properly, please return your exam to the instructor. All returned exams will be compared with the photocopies. See pages 93-94 or the Undergraduate Catalog 2007-2008 for a statement of the university academic conduct policy.

** Correlation of CHM 143 and CHM 157 Grades
The minimum %HRS score for the final total points for the grade cutoffs (3.6, 3.0, 2.5, 2.0, 1.5, and 1.0) will be adjusted downward to the minimum %HRS on all non-laboratory scores for CHM 157 students receiving that grade. All other grades will be appropriately scaled. For example, if the minimum %HRS total (without lab) for a CHM 157 student receiving a 3.0 grade is 72% rather than 75%, then 72% HRS will be used for the minimum 3.0 grade in CHM 143. This adjustment may be needed since the average laboratory score in CHM 157 is about 85%.