Oakland University  
College of Arts and Sciences  
Department of Chemistry  

CHM 158 – General Chemistry II - Laboratory  

Part of a 5 Credit Course  
Fall 2006 – Section 004 CRN 41661  
Time: Thursday 1:30 – 4:30 pm    Location: 230/240 HHS  

Instructor: John V. Seeley  
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Office: 267 SEB  
Office Phone: (248) 370-2329  
Office Hours: By Appointment  

Catalog Description:  
Integrated lecture-laboratory. Chemical reactions, kinetics, equilibrium, acid-base chemistry, thermodynamics and electrochemistry.  

Course Prerequisites: CHM 144 and 147 or 157.  

General Course Overview:  
CHM 158 is a lecture-laboratory course that represents the second half of a two semester course in general chemistry. This syllabus covers the laboratory portion of the class. CHM 158 focuses on the factors that influence the rates and equilibrium of chemical reactions. Experiments are performed and reported in groups of three to four students. A student's performance in this class contributes 20% to his or her final score in CHM 158. A detailed explanation of this course is found on pages 127 through 130 in the laboratory manual.  

Required Text:  
2005-2006, General Chemistry: Laboratory Experiments and Exercises  
by Russell and Severson  

Note: We will be using the second half of this book. Pages 125 through 315,
**Other Required Materials:**
Safety Goggles: Students must supply their own safety goggles. Safety glasses are not allowed.
A laboratory notebook.

**Laboratory Groups:** The experiments will be performed in groups of three to four students. The lab groups will be assigned on the first day of class. Every student is expected to make an equal contribution to the execution of the laboratory experiments and to the production of the reports. The instructor should be informed of any “free-loading” group members. Students will have an opportunity to rate the performance of their team members. The average rating received by each student will partially determine the grade received by the student.

**Grading:** Each group will turn in seven laboratory reports. These reports will be given one grade. The grades will then be individually adjusted for each laboratory group member based on the peer-evaluation scores. The first laboratory will not be impacted by the peer evaluations. Labs 2-4 will have a 25, 50, and 75% peer impact factors, respectively. Labs 5-7 will have 100% peer impact factors. The eighth laboratory experiment will serve as a practical exam.

**Grade Determination:**
Grades will be based on the total points earn by the student. The final percentage will be forwarded to the lecture instructor for incorporation into the overall CHM 158 grade.

**Extra Credit or Dropped Scores:** There is no extra credit or dropped scores.

**Make-up Laboratories:** Make-up laboratory experiments will only be granted for students who have experienced **extreme** circumstances and notified the
instructor within 12 hours of the missed lab. The instructor is the sole judge of the circumstances that qualify as a condition sufficient for a make-up. If the instructor is not notified within 12 hours of a missed lab, then the student will not be allowed to make-up the laboratory. Failure to attend labs places an extra burden on a student’s laboratory group members. Groups should report students that miss more than one laboratory session.

**Closing of the University:** In the event that the University closes on a day when class is held forcing the class to be cancelled, the scheduled events for the cancelled class day will be conducted on the next meeting.

**Academic Conduct Policy:** Cheating on examinations, plagiarism, falsifying reports/records, and unauthorized collaboration, access, or modifying of computer programs are considered serious breaches of proper academic conduct. It is the student’s responsibility to consult the instructor if uncertainty exists on what may or may not be deemed misconduct. The Oakland University policy on academic conduct will be strictly followed with no exceptions. See catalog under Academic Policies and Procedures. *Students found guilty of academic misconduct by the Academic Conduct Committee will receive a course grade of 0.0.*

**Safety Requirements:** This laboratory will strictly adhere to the code of safe conduct outlined in the “Oakland University Undergraduate Chemical Laboratory Safety Manual”. Students are required to read and understand this manual. Students that do not follow safe practices will be expelled from the course.

**Laboratory Waiver:** If you are repeating this course, you may be able to waive the laboratory portion of the current course. You may choose to use the laboratory scores from the first course if: (1) your average in the laboratory portion of that course was at least 75% and (2) you were enrolled in that course no more than three years ago. If you wish to apply for a laboratory waiver, you must complete a
General Chemistry Laboratory Waiver form. These forms are available in the Department of Chemistry office, 260 Science and Engineering Building (SEB). This laboratory waiver form must be completed and returned to your current lecture instructor during the first week of the current semester. You must attend the laboratory portion of the course until the waiver is approved.

Add/Drops: The University add/drop policy will be explicitly followed. It is the student’s responsibility to be aware of the University deadline dates for dropping the course. If you drop the class you must still check-out. If you drop without checking-out you will be fined $25.

Special Considerations: Students with disabilities who may require special considerations should make an appointment with campus Disability Support Services. Students should also bring their needs to the attention of the instructor as soon as possible.
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<td>Check-In</td>
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<td>Sept 7</td>
<td>Experiment 1 Part III</td>
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<td>Sept 14</td>
<td>Experiment 2 Part I</td>
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