Instructor: Prof. Joseph W. Lauher
Teaching Assistants: Matthew Christiansen and Christopher Marai

Prerequisite: Everyone in the course must have taken CHE 141 and received a grade of C or better. If you do not meet this prerequisite please see us immediately or you may be deregistered.

Lectures: Lectures will be given in Room 137 of Harriman Hall on Monday, Wednesday, and Friday at 10:40 am. We know that this is extraordinarily early in the morning, but do your best. A reading assignment will be announced for each lecture. To gain the maximal benefit from each lecture, you should complete the reading assignments before the lecture. Questions about the course material will be welcome in lecture at all times. A lively round of class discussion will always lead to more informative and more enjoyable sessions. The lecture presentations will be computer generated. Copies of the presentations will be posted after each lecture on the course web site. However, looking at the presentations on the web is not a substitute for class attendance.

Workshop Sections: Each student enrolled in the course is assigned to a particular workshop section and should attend that particular section. The workshops are primarily used as problem solving sessions, with plenty of opportunity for detailed discussion of the course material. Before you attend your workshop you should complete part one of the "Workshop Problem Set." These problems will be collected or checked during the workshop hour. Sometimes we will ask you to present a solution to the class. At the workshop you will receive parts two and three of the "Workshop Problem Set". Part two will be completed in class, part three after class. Your workshop is the most important hour of the week.

Office Hours: The instructors will hold office hours. The times and locations will be announced in the lecture and in the workshop sections. Remember that more individual help will be available if you come to office hours on a regular basis and not just before exams.

Required Text: Chemical Principles, 5th Edition by Steven Zumdahl published by Houghton Mifflin It is absolutely essential that each student have a copy of the text. Regular reading and problem assignments will be made from this text.

Problem Assignments: Regular homework assignments are made for each week. The assigned problems are very important and you must do them on a regular basis. If you complete and understand all of the assigned problems you will probably do very well in this course. Many of the examination questions will be close analogs of assigned homework problems.

Examinations: During the semester, there will be three midterm examinations administered during the regular class time. These midterm exams will be worth 100 points, the final will be worth 200 points. At each exam you may use your programmable calculator, preprogrammed
with any equations you wish, plus one 5" x 8" note card filled with any handwritten notes of your choosing. The exams will be hand graded and will be returned to you in class. Requests for regrades must be made immediately when you receive the graded examination. Later requests for a regrade after you have left the room with the exam will not be considered.

**Grades:** Final grades for the course are based upon a final numerical point total. There will be 500 points from the examinations and about 100 points given in the workshop and lecture on the basis of your "Workshop Problem Sets", quizzes and class participation. As a guideline you may expect that an overall performance of about 80% will be required for an A- letter grade, 70% for a B-, 50% for a C and about a 40% level will be required to pass the course. Other grades will be given in an appropriate manner. All students are required to complete every examination. Excused absences will be given only for extraordinary reasons such as a documented medical excuse. No make up examinations will be given for the midterm exams.

**Disabilities:** If you have any condition, such as a physical, psychiatric/emotional, medical or learning disability, which will make it difficult for you to carry out the work as we have outlined you should contact the staff in the Disability Support Services office, ECC Room 128, 632-6748. DSS will review your concerns and determine with you what accommodations are necessary and appropriate. All information and documentation of disability are confidential.

**Is Honors Chemistry a Difficult Course?** Yes, it could be, for many, but it does not have to be for you. If you attend the lectures and your recitation section, if you complete all the reading and homework assignments and if you come to us for help when you need it, you will almost certainly do fine. Chemistry is a problem solving science and has a language of its own. If you learn the language and practice problem solving, you can master the subject. This semester we will be going beyond the textbook as we treat several more sophisticated topics. This means that class attendance and homework assignments are even more important.

**What are the Course Goals?** This is the second semester of a year long course designed for well qualified and motivated students. It is designed to show you the basics of chemistry as well as some of the relationships between chemistry and the other sciences. Chemistry is the central science, reaching from physics to biology, from materials to medicine. No scientist or engineer or health professional can pursue a successful career without some working knowledge of chemistry. This semester we will emphasize topics that will prepare you for advanced courses in organic chemistry and biochemistry. We will emphasize topics illustrating contemporary research in chemistry. While we can not cover every thing we would like in a single year we will do our best to show you some of the more interesting aspects of chemistry. As chemists we think chemistry is exciting and fun; if you have fun discovering chemistry this year, then we will consider our efforts successful.