

Dr. Richard Wittebort
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Office: Chemistry 248,123
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Lectures: Monday, Wednesday @ 5:30 PM Humanities 117

Discussion Sections: Jessica Kohler, Anton Grankin
Instructor's Office Hours: TBD

PREREQUISITES: The prerequisites for this course are a math ACT score of 24 or higher; or, completion of Math 102, Intermediate Algebra; or, enough background to qualify for Math 190 or EMCS 101, chem. 201. A high school course in chemistry is recommended but not absolutely required.

TEXT: CHEMISTRY: The Molecular Nature of Matter and Change, by Silberberg, 3rd edition. The general format of the book are discussed in the preface and early sections. The material to be covered will be taken from Chapters 12-24, but not everything in those chapters will be covered.

COURSE OUTLINE: Chemistry 202 is the second semester of general chemistry course. It is appropriate for students interested in science, engineering, preprofessional programs and other majors. The course consists of the main lecture given by the Senior Instructor and recitation sections conducted by a Teaching Assistant (TA). The recitation sections are small classes that meet once a week and provide an opportunity for question and answer sessions as well as some group (or collaborative) activities. Chem 202 does not include a laboratory; lab courses are separate with different course numbers, Senior Instructors and TAs.

ATTENDANCE: Except for exams and quizzes attendance is NOT required. However, are intended to ease the process of learning, emphasize the most important parts of the subject and improve your overall understanding of the material

EVALUATION: The course grade is determined as follows: There will be three hourly exams of which the lowest is dropped. The two highest hourly exams will each count for 25% of the final grade. THERE ARE NO MAKE-UP EXAMS. Quizzes will be given on a regular basis in recitation sections and these will count for 15% of your final grade. A final exam (half will cover chpt's 9 and 10 and the other half is comprehensive) is mandatory and counts for 35% of the final grade. A missed final exam is an automatic F for the course. Every effort is made to grade the exams as quickly as possible. Scaling of exam and recitation grades can sometimes occur. Grades can be scaled up but will never be scaled down. Individual quizzes or assignments in recitations will not be scaled but the overall recitation grade could be scaled at the end of the semester to account for different TAs.

The overall grading scale applied at the end of the term is

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|------------|-------------|-------------|-------------|--------|
| A | B | C | D | F |
| 100 - 87.5 | 87.4 - 75.0 | 74.9 - 62.5 | 62.4 - 50.0 | ≤ 49.9 |

PROBLEM SOLVING: Understanding chemistry requires a lot of problem solving. A large number of problems is given at the end of each chapter in the text and selected problems are listed for each chapter on the class schedule. Study the material before attempting the problems and do not simply copy the answers from a solutions manual. Do as many of these problems as possible and when you have difficulty ask the TA or Senior Instructor. HOMEWORK WILL NOT BE GRADED.

CALCULATOR: A calculator will be essential for problem solving and exams. Be certain you understand how to use the calculator. A basic calculator with math functions and scientific notation is required for this course; there is no need for graphing or calculus functions. Calculators capable of storing alphanumeric characters are banned from exams and will be confiscated if found.

HELP: Study materials for this course are available on reserve in Kersey Library (behind the main Speed building). These materials include the text, related texts, Instructors Solutions Manual (answers to all problems in the text), and a copy of the Senior Instructors exams from the last three times he/she has taught the course. These exams are also available at a nominal cost from the Chemistry Graduate Student Association; details on purchasing these exams will be provided in lecture.

This course can be challenging; for many it will be difficult. The most important guidelines for success include regular attendance, good lecture notes, reading the chapters in the text, problem solving in a timely fashion, and utilizing the available assistance. The first place for assistance is the recitation sections and the TA - do not be afraid to ask questions. The TA will also set office hours when students can review work and ask questions. Assistance is also provided by the Supplemental Instruction (SI) program; the meeting times and locations will be announced when available. The Senior Instructors are also available for questions at any time either in person or by e-mail. It is very easy to fall behind in this class, and it is also very dangerous. It is the student's responsibility to maintain the pace to the best of ability and to take advantage of the various forms of help when necessary.