

General Information

CH 116

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The text for this course is Brown, LeMay, and Bursten's *Chemistry: The Central Science*, 10th Ed.

The book is available in the bookstore as a special bundle that includes the *Student Solution Manual* to the text.

In CH 116 we will be covering chapters 10 through 21.

Office hours:

Mondays and Wednesday

11:30 to 12:30 AM

For other times e-mail me to set up an appointment.

Lecture:

The lectures, not the book, constitute the principal source of material for the tests. The projected overheads that I will use in class are available for print-out on the website. Most students find it useful to have these in hand during the lecture. However, much of the content of the lectures (e.g., most worked-out examples of problems) are not in these overheads. Therefore, it is imperative that you faithfully attend lectures and take good notes.

Discussion:

Discussions are intended to give you opportunities to deepen your understanding of the material, to explain homework problems, and to prepare you for the tests. Homework is not collected or graded, and worked-out answers are available. Although you will not turn in your homework, you should always attempt to do the assignment before coming to discussion.

Calculators:

Calculators may be used in all aspects of this course, including examinations. You may find it useful to have a more sophisticated calculator, such as the Texas Instruments TI-86 or similar models. However, **during a test you may not use any calculator or device that is capable of communicating with any other calculator or device.** Anyone bringing such a device to a test will receive a zero for the test. Be sure you know how to operate your calculator before you have to use it in a test situation. Before coming to a test, be sure your calculator is working properly and that it has fresh batteries (if needed) or will work in low light (if solar powered). You may bring a back-up calculator to the tests, if you like. **Calculator sharing is not allowed during a test.**

Tests and Academic Honesty:

Except in highly unusual circumstances, there are no make-up tests.

The dates for the hour examinations are listed at the end of the syllabus. Tests will be given during the normal lecture hour. If you cannot attend a test for some legitimate reason (e.g., debilitating illness, death in the immediate family, car accident on the way to the university) you must call me or send e-mail in advance of the test or as soon as possible under the circumstances. In cases of real emergency you *might* be eligible to start the test late or to be excused from the examination.

Absence without notice and/or legitimate cause will result in a score of zero for the test.

Make every effort to arrive on time to each test. If you arrive late, you will not be given extra time, except in special circumstances. **No one arriving late to a test will be allowed to take the exam after the first paper has been handed in, unless special arrangements have been made in advance.** Although your lowest test score will be dropped in determining your final grade (see below), you are strongly urged to take every test. **During a test you are allowed to have pencils, erasers, and your calculator (with extra batteries, if needed) – nothing else.** You may *not* have notes, open books, or scrap paper.

Academic dishonesty will not be tolerated and may result in your failing the test, failing the course, or being expelled from the University, depending on the circumstances.

Grades:

Grades are based on the sum of points earned on the best three of four one hour examinations (100 each) and comprehensive final examination (200 points). A total of 500 points.

Syllabus :

Topic Chapters & Sections in Brown et al.

Gases	Chapter 10	(all sections, in order)
Intermolecular Forces, Liquids, and Solids	Chapter 11	(omit section 11.7)
Physical Properties of Solutions	Chapter 13	(omit section 13.6)
Chemical Kinetics: Rates and Mechanisms	Chapter 14	(omit "Second-Order Reactions, pp. 589-591)
Nuclear chemistry	Chapter 21	(sections 21.1, 2, 3 and 4)
Chemical Equilibrium	Chapter 15	(all sections, in order)
Acid-Base Equilibria	Chapter 16	(all sections);
Additional Aspects of Aqueous Equilibria	Chapter 17	(omit sections 17.4-17.7)
Thermodynamics	Chapter 19	(all sections).
Electrochemistry	Chapter 20	(omit sections 20.7 & 20.8)

Test Dates

The tests will be on the specified dates. The test will cover the chapters covered between the tests and will not be cumulative. The final exam will be cumulative and will cover all the chapters.

Dr. Isaac Reif is teaching the evening class. You need to get in touch with him on this matter.