

Chemistry 145 Lecture A

5 Credits

Spring 2006

Instructor: Dr. James Hamilton

Lecture: MWRF 1 pm, Rm.122 Ottensman Hall

Office: 309 Ottensman Hall

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Important weblinks: www.webassign.com & www.uwplatt.edu/~hamiltoj/

FINAL EXAM: Group 3: Tuesday, May 16th, 8-9:50 am

EVENING EXAMS: *Mon Evenings 5-7pm, Feb. 6th, Feb.27th, March 27th, April 13th(In Class), May 8th*

LABORATORIES: (Unexcused absences from 2 labs will result in a failing course grade.)

A1	2-5 PM	Monday	Rm. 302 Ottensman Hall	Hamilton
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A2	9-11AM	Tuesday	Rm. 302 Ottensman Hall	Carlos-Cuellar
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EMAIL: Each student is responsible for checking their email accounts daily. Email is an official means of announcement for the class, in addition to the syllabus and in class announcements. You will always have at least 2 days between posting and due dates.

MATERIALS NECESSARY: (Besides a positive mental attitude).

Textbook: General Chemistry, Hill & Petrucci, 3rd Edition, Prentice Hall, 2002

Lab Manual: Provided in lab. *Please come prepared or you may not be able to finish!*

Goggles (Glasses with side shields are not allowed.) Available from bookstore.

**Programmable calculators may be cleared by the instructor on a random basis during exams!

**Storage of exam related material including answers formulae constitutes cheating. See below.

Office Hours: See my schedule on my webpage and door. If I am not in my office, as is often the case, I am usually in the lab, so feel free to stick your head in rooms 303a or 307 or 301. N.B. I enjoy meeting w/ you!!

COURSE DESCRIPTION

Chemistry 145 is an intensive, one-semester course of college chemistry for engineers. It is assumed that the student is familiar with fundamental chemical concepts and that the student has a strong background in algebra. The largest pothole in the road to student success in this course is falling behind. This course moves FAST!

STUDENT RESPONSIBILITIES:

As of right now, everyone's grade is 100%. I would very much enjoy giving everyone A's and have no preconceived numbers of how many get A's, B's and C's although, in general, grades may be curved. Please prepare for lecture and lab by reading the material and some problems and the worksheets and outlines beforehand. Class and lab are much more interesting when you have a clue what's going on. There will be announced and unannounced quizzes, assignments and/or papers, a random selection of which will count.

For introductory chemistry, it is generally recommended that a minimum of two hours of preparation be spent for each hour of instruction. This means that the student should spend a minimum of 11 hours per week in preparation for lecture and lab by doing homework. This does not include the time spent just before an exam!!

Lecture will not be verbatim from the book which is to be a reference and guide book for us. **IN ORDER TO SUCCEED, YOU ARE EXPECTED TO READ THE BOOK AND DO AT A SIGNIFICANT NUMBER OF THE SUGGESTED PROBLEMS as well as COMING TO CLASS PREPARED.** Not all the material you will be tested on will be covered in lecture. When in doubt, know it - or ASK! I see the role of the "lecturer" as that of a guide and motivator on our journey through the landscape of chemistry. You will enjoy the lecture hour much more if you know something before you come!! We will have exam questions on the material we cover in class and not all of it will be in the book.

Years of experience (mine and others) have shown that those students who actively participate and come prepared for class and lab do substantially better than those who don't. Most importantly, if you don't think lecture and lab are helping you learn, let's talk about it. Getting you to develop a chemical intuition and rigorous problem solving skills, as well as a good grade is the course and my primary purpose. Developing an informed opinion about scientific issues in general and chemistry in particular is one of the honors and obligations of having an education.

Homework problems will be suggested in class. These are not normally collected and graded, but the answers are readily available. In all earnestness, if you don't do and understand these problems you will have a great deal of difficulty in passing the course. Get help, a tutor and/or come see me regularly if you can't do the problems. Don't wait until a night or two before the exam.

Grading Guidelines:

<u>GRADING GUIDELINES:</u>		<u>Grade scale:</u>	
Departmental Final Exam	20%	A	90+
5 Hour Exams	55 %	B	80-89
Laboratory	15%	C	70-79
Quiz, Papers & Assignments	10%	D	60-69
		F	<59

These standards may be lowered on an individual basis for students showing marked improvement over the course of the semester and for mastery of the material on the final. I repeat: I have no preconceived notions of grade distributions. I would be happy giving everyone who earns it an A.

- There are **NO** make-up examinations. In the event of an excused absence, the corresponding section of the final examination will substitute for the missed grade. If there is an emergency and you must miss an exam or lab, **YOU MUST TELL ME BEFOREHAND**. Ask first. With a *very* good excuse one late or early exam *might* be given in a semester.
- All late work will lose 10% per day late down to a maximum of 50% off.
- Effort, regular class and lab attendance and attitude will be taken into account in determining a portion of the grades, especially in laboratory.
- Regular attendance will not be taken in lecture but any quizzes missed will count as a zero. No make ups. Statistically speaking, those who attend and are prepared do significantly better in the class.
- All class notes, helpful handouts and class materials missed should be copied from a fellow class member and will not be available from me later. A lot of material will be on the web.
- Quizzes will occasionally be given in lab and lecture and may not be announced. In addition, some pages of the laboratory may be collected before lab to demonstrate preparation for lab. The purpose of quizzes is to catch misunderstandings early – and therefore increase your overall grade.

Labs: You must attend and hand in **all the labs** to pass the course, *unexcused absences* and missing lab work automatically results in an F course grade.

- If you must miss lab, tell me before hand and arrange another time to do the lab. Make up labs must be completed in the *same week* they are missed or the chemicals and equipment will no longer be set up. I have 3 lab sections and you should go to one of these. **Arrange this beforehand. It is your responsibility** to anticipate problems and come to another lab.
- There may be prelabs and assignments to be completed before coming to lab. Consider completed prelabs to be your entrance ticket to the lab - you will not be allowed in without having prepared so that you have some idea of what is going on that day. Ask your lab instructor for details.
- Discussion sections will be held at the start/end of each lab where we might introduce the lab, go over prelabs, do problems from the book and answer questions you may have. We will work together to make our lab and discussion time spent together as productive and useful to your learning as we can!
- In general, lab work will be due the day of the experiment, unless otherwise stated by the instructor lab.
- Some experiments must be done individually or in groups of 2. Larger groups will have grades lowered by 1/3 or more as will plagiarized work unless specifically allowed.

Additionally, several short papers and article reviews, with references, may be assigned these may count as much as 15% of the final grade, at the discretion of the instructor. The same (or higher) standards will be applied to these papers as in your English composition class.

Academic Conduct: Please don't cheat, plagiarize, copy or give restricted information to others.. University rules are strict and will be enforced. It rarely helps your final grade anyway. See UWP Student Handbook.

** If you have a specific physical, psychological, or learning disability and require accommodations; please let me know as early in the semester as possible so that your learning needs may be appropriately met.