

Chemistry 102

Fall 2009

Course: Chemistry 102

Date: Saturdays

Time: 8:30A-12:20P

Location: Cudahy Hall 207

Textbook: Kotz, Treichel and Weaver: Chemistry and Chemical Reactivity (7th ed.)

Website: Blackboard (blackboard.luc.edu)

Instructor: Prof. Jacob Ciszek

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Note, contact is best through e-mail. Don't contact me through the OWL system. I check it infrequently.

Course Philosophy: While every student may not enter the class with the intent to become proficient in chemistry, I strongly feel that my role as a professor is to get you to that point. Thus the expectations of you the student is through hard work, attending class, and completion of the homework you will obtain this proficiency and do well in the course. My role is to provide you with the information and the tools, in a coherent matter, so that solving said homework (as well as the quizzes and exams) are not burdensome.

We have a limited amount of days allotted to class. Thus it is very important that the class environment is free of distractions. No laptops or other computers are allowed. Cell phone use including texting is not acceptable.

Office Hours: Office hours are formally announced the first day of class. Office hours consist of one hour during each of the following time slots (3h total):

Weekday, 1h, morning

Weekday, 1h, evening (different day than previous)

Weekend, 1h, starting an hour after class

Academic Honesty & Discipline: Honesty is the foundation of the academic system and hence is of the utmost importance. All exam and quiz answers should be exclusively your own work and no outside materials are allowed. In the unfortunate event that a student is caught cheating, 100 points will be deducted from your total grade and you will be brought to the attention of the Department Chair and Dean of the College who will determine if further action should be taken.

Grading: As we only have 12 lectures, this time must be used judiciously. Every week multiple homework assignments are due. Exams will be approximately every 4 weeks. Every other week will have a quiz.

The role of homework is to refresh the lecture information in your mind and prepare you for quizzes and exams. Homework will primarily be posted on OWL but expect occasional paper assignments. Homework will be due Tuesday (OWL), Thursday (OWL), and Saturday (OWL+paper). Collaboration on homework is allowed. OWL does not mimic the style of questions on the exam/quizzes, so do not use it for exam prep; its main use as a quick review of the lecture material and to see which concepts you're having trouble with.

Quizzes are designed such that an average student who works hard and grasps the material should score ~85%. Exams (and the final) are designed so that this same student will score approximately 70-75%. This allows motivated students to truly go beyond what is expected and to distinguish themselves, not to penalize those who work as expected.

There are no makeup exams or quizzes. Both the lowest quiz and exam are dropped. This should be used judiciously. Note that exam 4 will be take-home so we can get it in before the

end of the school year. You will have 24h from the time when the exam 4 is available for pickup/download to complete and return the exam.

Discussion points are given for the final portion of the class where you are expected to work through some selected problems in small groups. The purpose here is to work through material presented in lecture.

Finally, there is a grading category called office hours. You are expected to stop by at least one office hour, within the first four weeks (by 9/26), even if it is just to introduce yourself. This will be the easiest 10 points you earn.

Grading scale:

Homework:	12 × 10 pts	120	A > 90%
Quizzes	5 × 20 pts	100 (lowest of 6 dropped)	B > 80%
Exams	3 × 100 pts	300 (lowest of 4 dropped)	C > 70%
Final	200 pts	200	D > 60%
Discussion	12 × 5 pts	60	
Office Hour	10 pts	<u>10</u>	
Total		790	

Note, the intended scale for exams and the final would put the average just above the lowest C. Homework and quizzes will mitigate this a bit. Based on overall class competence the grading scale may be relaxed a little at the end of the semester (certainly no more than a couple percent). If the whole class has mastered the material, you will not be punished because you are below the average. The A, B, C, D scale represents the maximum score you would need for that grade. Pluses and minuses are not indicated in the grading scale but will be given. This will be done according to the natural breakdown of the grade distributions. Expect this to be the closest 1-2% to the final A-B, B-C, and C-D divisions.

Schedule (including approximate page numbers):

8/29	Introduction, Solutions	p617-648		
9/5	Labor Day Weekend, no class			
9/12	Kinetics	p670-712	HW#1 due TTS	Quiz 1
9/19	Exam 1 , Equilibrium	p724-743	HW#2 due TTS	Exam 1
9/26	Equilibrium, Acids & Bases	p744-787	HW#3 due TTS	Quiz 2
10/3	Acid & Bases, Aqueous Equilibrium	p788-821	HW#4 due TTS	
10/10	Aqueous Equilibrium	p822-850	HW#5 due TTS	Quiz 3
10/17	Exam 2 , Thermodynamics	p860-867	HW#6 due TTS	Exam 2
10/24	Thermodynamics, Electrochemistry	p867-886	HW#7 due TTS	Quiz 4
10/31	Electrochemistry	p896-940	HW#8 due TTS	
11/7	Electrochemistry, Coordination Chem.	p1018-1028	HW#9 due TTS	Quiz 5
11/14	Exam 3 , Coordination Chemistry	p1029-1053	HW#10 due TTS	Exam 3
11/21	Nuclear Chemistry	p1060-1090	HW#11 due TTS	Quiz 6
11/25	5:00p take home Exam 4 due			
11/28	Thanksgiving Break, no class			
12/4	Classes end 12/4, HW only		HW#12 due TT	
12/14	Final 4:15p			

Note, the pace in the first two weeks will be rigorous. Be prepared.

Other:

Simple calculators are allowed for exams. Those capable of storing complex (for example images) or large amounts (1+ pages of text) of information are not. See me if you are unsure about yours.

