

Chemistry 161 Fall 2009

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Office hours: M 12-2; T 8:45-9:30, 1:30-2; R 8:45-9:30, 1:30-2 *other times available by appointment*

Required Materials:

— *Chemistry: Structure and Dynamics 4th Ed.*, J. Spencer, G. Bodner, L. Rickard, (Wiley 2008).

—Scientific Calculator

Expectation of Students

All students MUST have completed MATH 101 or equivalent. I will assign homework from the text but will not collect it. I expect students are working outside of class and will seek help from each other, tutors, or me if it is needed. I expect student participation in class (in both directions). It is the responsibility of each student to seek assistance when needed including asking questions during class or attending office hours when necessary

Course Goals

Chemistry is the study of matter and its changes. We must consider what is happening on both the macroscopic and molecular levels, and we must be able to discuss these changes symbolically. By the end of this course you will understand the relationship between the macroscopic and microscopic world, and how to use the symbolic language of chemistry to discuss both.

Evaluation of Student Progress

I will evaluate students through six (6) exams. All exams are cumulative; however, the first five (5) will focus primarily on material learned since the previous exam. The final exam is a standard departmental exam. All exams are multiple choice.

Tentative Course Schedule

Week of	Topic	Reading	Special
08.31	Definitions and introduction	1.1-1.12	
09.07	microscale calculations	1.13-1.21	
09.14	moles relations	2.1-2.6	Exam 1 09.15
09.21	stoichiometry	2.7-2.13	
09.28	atomic history	3.1-3.5	Exam 2 09.29
10.05	electron configurations	3.6-3.18	
10.12	periodic trends	3.19-3.25	Exam 3 10.15
10.19	covalent bonding	4.1-4.16	
10.26	molecular shape	4.13-4.17	Final Drop Date 10.26
11.02	alternate bonding theories	4A.1-4A.4	Exam 4 11.03
11.09	ionic and metallic bonds	5.1-5.17	
11.16	gases	6.1-6.18	
11.23	Thanksgiving recess (no class)		
11.30	thermodynamics	6A.1-6A.3; 7.1-7.7	Exam 5 12.01
12.07	enthalpy	7.9-7.16	
12.14	Final Exam: Tuesday 8:00 AM		

Any changes to the above schedule will be announced in class.

Course Policies:

All cell phones MUST be OFF during class.

Attendance I do not take attendance in lecture; therefore, your attendance is up to you. That said, DO NOT come to class late. If you cannot make it by 9:30 AM, do not come at all.

Tardiness will not be tolerated, and students will receive no credit for the work missed. Traffic is not an excuse.

Academic Dishonesty: I strictly enforce the University Academic Misconduct Policy. Any form of misconduct will result in an F for the assignment and/ or the course and referral to the CCSU Judicial Officer..

Make-Up Assignments and Late Work: I do not give make-up exams or labs. If you have a valid reason for missing a graded assignment, your score will be a weighted average of all similar assignments. Valid excuses must be presented to me in advance or as soon as possible after the missed class. E-mail is the best way to contact me (westcottb@ccsu.edu). I DO NOT RETURN STUDENT PHONE CALLS.

Inclement Weather: The University may cancel classes due to inclement weather. Call the University Snow Phone: 832-3333, check the website, or listen to WTIC-AM, 1080 kHz.

Special Needs: If you require course adaptations or accommodations because of a disability, please notify me of your situation ASAP.

Scoring

Students all start the semester with 250 points. Each question answered incorrectly on the multiple-choice exams costs one (1) point. The first five (5) exams will have 35 questions; the final exam will have 70 questions.

Grading Scale	
225	A
220	A-
217	B+
200	B
195	B-
188	C+
167	C
150	C-
138	D
0	F

Recommended Problems.

Ch 1: 7, 11, 13, 25, 27, 31, 33, 35, 37, 39, 41, 43, 45, 47, 51, 53, 55, 57, 59, 61, 63, 69, 73, 83, 85, 91, 93, 99, 101, 105, 115, 125, 127, 139, 141, 145, 149, 155, 161, 169, 171

Ch. 2: 13, 17, 21, 23, 25, 27, 31, 35, 37, 39, 41, 43, 45, 49, 53, 55, 59, 61, 63, 67, 75, 81, 85, 89, 91

Ch. 3: 9, 13, 17, 21, 35, 39, 49, 53, 57, 69, 79, 87, 91, 95, 101, 107, 129, 135, 137-151 (odd), 181, 183, 197, 207

Ch 4: 3, 5, 9, 23, 27, 31, 33, 35, 39, 41, 45, 47, 51, 53, 57, 59, 63, 65, 69, 79, 83, 87, 91, 93, 97, 99, 109, 111, , 121, 125, 127, 133, A5, A7, A9, A13, A19

Ch. 5: 7, 21, 29, 39, 41, 43, 47, 53, 55, 79, 81, 83, 87, 93, 103, 107, 109, 113, 125, 131, 135

Ch 6: 9, 13, 17, 23, 31, 35, 39, 43, 45, 49, 51, 59, 65, 69, 75, 83, 89, 93, 107