

ANALYTICAL CHEMISTRY (Chmy 311-001)
Fall 2009 Tentative Syllabus
MWF 1140-1240 SCI 218

Instructor: Dr. Will Wickun
Office: SCI 215: MWF 0930-1030, any time my door is open, or (BEST!) by appointment
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Text: Daniel C. Harris, *Quantitative Chemical Analysis, 7e*, (New York: W.H. Freeman and Company, 2007)

Student Website: www.whfreeman.com/qca7e (Bookmark this baby, you'll need it!)

Catalog Description: Covers theoretical foundations of quantitative chemical analysis, common wet chemical and simple instrumental analysis techniques. Lab required.

Hour Exams: In order to allow flexibility in covering material, no specific dates for exams have been set. However, you may anticipate that they will be scheduled during the weeks specified below. You will be given at least four or five days advanced notice.

Comprehensive Final Exam: *Optional* at date/time TBA

Homework: Homework will be assigned and collected regularly but not always graded. Solutions to Exercises are provided in the back of the text and I will provide detailed solutions. The homework is not only for grade, but also for YOUR academic benefit and I expect that you will at least *attempt* every problem. Historically, students who work and understand the problems will perform well on the exams and in the course overall.

<u>Grading:</u>	4 Hour exams	80%
	Homework	20%

There is no "curve" in the course, but final grades MAY be normalized. If so, this will not occur until after the final exam and will never lower a student's grade. Individual exams will not be "curved."

Grading System and Letter Grade Equivalent: The following scale is tentative and MAY be adjusted.

93-100	A	83-87	B	73-77	C	60-67	D
90-92	A-	80-82	B-	70-72	C-	0-59	F
88-89	B+	78-79	C+	68-69	D+		

Incompletes: An incomplete is not intended as a "golden parachute" for failure to perform. Incomplete grades in this course are assigned only if the student is prevented from completing a significant portion of his/her coursework due to family or medical emergency. The student must petition the Dean, CAS prior to receiving my consideration for an incomplete grade.

Outcomes Assessment: The course is lecture-based; therefore, Outcomes Assessment will be determined entirely upon the hour exam, the homework, and the final exam grades.

<p>POLICY ON ACADEMIC HONESTY: It is your responsibility to familiarize yourself with the Student Affairs Handbook. In particular, you should understand Part IX, B1 (Academic Misconduct.) All students are expected to adhere to the highest standards of academic honesty and refrain from any action that is dishonorable or unethical. In all examinations and other graded work, students are expected to submit their own work entirely. Cheating or <i>alleged</i> cheating on work in this course will result in a grade of zero (failure) or the work involved. <i>There are no second chances! I take a very dim view of dishonesty in any form!</i></p>
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Week	Chapters	Topics
14 Sep	0, 1	The Analytical Process; Measurements
21 Sep	3, 4	Experimental Error; Statistics
28 Sep	27	Gravimetric Analysis
05 Oct	6	Chemical Equilibrium
		EXAMINATION #1
12 Oct	7	Let the Titrations Begin;
19 Oct	9	Monoprotic Acid-Base Equilibria
26 Oct	11	Acid-Base Titrations
		EXAMINATION #2
02 Nov	14	Fundamentals of Electrochemistry
09 Nov	15	Electrodes and Potentiometry
16 Nov	16	Redox Titrations
		EXAMINATION #3
23 Nov	18	Fundamentals of Spectrophotometry
30 Nov	19	Applications of Spectrophotometry
07 Dec	20	Spectrophotometers
		EXAMINATION #4

This syllabus may change if I deem it necessary to improve content or facilitate your understanding of the material. If so, I will inform you immediately. *Semper Gumby!*