

# Chemistry 102

## Winter 2009

### Schedule of Topics and Laboratories

The scheduled list of topics and laboratory exercises is tabulated below. The homework solutions will be posted on the bulletin board outside Physical Sciences 155 and in a library limited loan folder after the due date.

Week	Topics (Chapters)	Goldwhite & Tikkanen Lab Experiments (Points)	Hand-graded Homework Problems (Week Due)
1	Molecular Structures (9)	Check-in; review	Chap. 9: 77, 80, 83, 87, 92 (2)
2	Molecular Structures (9)	#9 Molecular Models (25)	Chap. 9: 94, 96, 98, 101, 102 (3)
3	Gases and the Atmosphere (10)	#6 PV relationship for a gas and determination of R (25)	Chap. 10: 93, 99, 108, 111, 113 (4)
4*	Gases and the Atmosphere (10); Liquids, solids etc. (11)	#7 Molar mass by vapor density (25)	Chap. 10: 115, 118, 119, 121, 122 (5)
5	Liquids, solids and materials (11)	#11 Synthesis of benzoic acid (20)	Chap. 11: 93, 97, 98, 100, 101, 102 (6)
6	Chemical Kinetics (13)	#12 Paper chromatography (25)	Chap. 11: 104, 108 Chap. 13: 95, 96, 98 (7)
7	Chemical Kinetics (13) Chemical Equilibrium (14)	#23 Chemical kinetics (30)	Chap. 13: 100, 101, 115, 116, 123 (8)
8*	Chemical Equilibrium (14)	#25 Formula and formation constant of a complex ion (25)	Chap. 14: 69, 71, 90, 95, 98 (9)
9	Solutes and Solutions (15)	#18 Solubility product of potassium hydrogen tartrate (25)	Chap. 15: 88, 92, 95, 99, 101 (10)
10	Solutes and Solutions (15)	Check- out; review for final	Chap. 15: 106, 109, 111, 114, 118 (never- solutions to be posted last day of classes)

\* Midterm Exams will be administered during these weeks or the week immediately following.