

Chemistry 4000 Spring 2009 Syllabus

Revised March 31, 2009

Date	Readings	Assignment due
Jan. 7	Orientation	
Jan. 9	Sections 12.1–12.3	
Jan. 12	Sections 12.4–12.6	
Jan. 14	Section 13.1	
Jan. 16	Sections 13.2–13.5	X
Jan. 19	Molecular energy levels (handout)	
Jan. 21	Sections 14.1–14.4	
Jan. 23	Section 14.5	
Jan. 26	Sections 14.6, 14.7	X
Jan. 28	Section 14.9	
Jan. 30	Sections 15.1, 15.2	X
Feb. 2	Sections 15.3	
Feb. 4	Appendix B.6 and sections 5.12, 6.2	
Feb. 6	Sections 15.4, 15.5 and handout	X
Feb. 9	Section 15.6	
Feb. 11	Section 15.7	
Feb. 13	Test 1	
Feb. 23	Linear polymers (handout)	
Feb. 25	Rubber elasticity (handout)	
Feb. 27	Lattice theory of solutions (handout)	
Mar. 2	Polymer solubility (handout)	
Mar. 4	Lattice models of proteins (handout)	
Mar. 6	Sections 6.4, 6.5, 9.2, 9.5	X
Mar. 9	Other ensembles (handout)	
Mar. 11	Sections 16.1–16.4	
Mar. 13	Sections 16.1–16.4 (continued)	X
Mar. 16	Sections 16.5–16.7	
Mar. 18	Sections 16.5–16.7 (continued)	
Mar. 20	Test 2	
Mar. 23	Sections 17.1–17.3	
Mar. 25	Section 17.4 and random walks (handout)	
Mar. 27	no class today	
Mar. 30	More on random walks	
Apr. 1	More on random walks	
Apr. 3	Sections 18.13, 18.14 and handout	X
Apr. 6	Section 19.3 and RRK(M) theory (handout)	
Apr. 8	Master equations (handout)	
Apr. 15	Graduate student lecture (Rutledge)	
Apr. 17	Graduate student lecture (Millen)	X