

Lecture	Date	Material Covered	Assignments
1	Jan 12	<b>Course Introduction</b> <b>Chemical Calculations</b>	AJ: Fundamentals A-H (AJ Problems: A.25, A.27, A.29, B.15, B.19, B.20, C.13, C.17, D.1, D.3, D.5, D.9, D.15, E.1, E.5, E.7, E.15, E.19, E.25, F.1, F.5, F.9, F.15, G.7, G.11, G.13, G.17, G.23, H.5, H.7, H.13, H.21)
2	Jan 14	<b>Solutions:</b> Precipitation Reactions and Solubility	AJ: Fundamentals I AJ: Ch 11.8 – 11.9 (AJ Problems: I.3, I.5, I.13, I.15, 11.51, 11.57)
3	Jan 19	<b>Intermolecular Forces and</b> <b>Introduction to thinking about</b> <b>biology chemically</b>	AJ: Ch 5.2 – 5.5 CF: Ch 1 and 2 (CF Problems: 1.3, 1.6, 1.36, 1.37, 1.39, 1.42, 1.43, 2.7, 2.13, 2.15, 2.18, 2.25, 2.29, 2.31, 2.32, 2.37, 2.41)
	Jan 21	<b>Quiz 1</b>	
4	Jan 26	<b>Organic Chemistry 1:</b> Hydrocarbon naming and Functional Groups	AJ: Ch 18.1 – 18.5, 18.7 and 19.1 – 19.8 (AJ Problems: 18.1, 18.13, 18.35, 18.43, 19.1, 19.3, 19.7, 19.13, 19.23, 19.33)
5	Jan 28	<b>Organic Chemistry 2:</b> Common Reactions: Nucleophilic substitution, General Acid-Base catalysis and Condensation reactions	CF: 7.6 AJ: 19.10 (AJ Problems: 19.25, 19.27, 19.29, 19.30 and CF Problems: 7.37 – 7.40) <b>Problem Set 1 Due</b>
6	Feb 2	<b>Amino Acids:</b> Structure and Behaviour	AJ: 19.8 CF: Ch 3.1 – 3.5 (AJ Problems: 19.49, 19.51, 19.53 and CF Problems: 3.2, 3.3, 3.4, 3.7, 3.8, 3.9, 3.10, 3.14, 3.21, 3.28, 3.29, 3.36, 3.41)
	Feb 4	<b>Test 1</b>	
7	Feb 9	<b>Proteins 1:</b> Structure	AJ: 19.13 CF: Ch 4
8	Feb 11	<b>Proteins 2:</b> Kinetics	AJ: Ch 13.15 CF: Ch 6.1 – 6.4 (CF Problems: 6.1, 6.3, 6.5, 6.6, 6.7, 6.17, 6.18, 6.22, 6.23,

			6.24, 6.25)
9	Feb 16	(Cont'd)	CF: Ch 6.5 – 6.7 (CF Problems: 6.26 - 31, 6.33 - 6.52) <b>Problem Set 2 Due</b>
	Feb 18	<b>Techniques 1: UV-Visible Spectrophotometry</b>	AJ: p. 136 – 137 (CF Problems: 6.14, 6.32)
10	Feb 23	<b>Quiz 2</b>	
11	Feb 25	<b>Proteins 3: Active Sites</b>	CF: 7.5 – 7.8 Handout
12	Mar 2	<b>Case Study 1: Alcohol Dehydrogenase</b> <b>Case Study 2: HIV Protease</b>	Handout
	Mar 4	<b>Test 2</b>	
13	Mar 9	<b>Carbohydrates</b> <b>Case Study 3: Lysozyme</b> <i>Course Drop Deadline tomorrow (Mar 10)</i>	AJ: 19.14 CF: Ch 16.1 – 16.5
14	Mar 11	<b>Lipids and Membranes</b>	CF: Ch 8.1 – 8.6 (CF Problems: Ch 8: 1, 6, 12, 17, 25, 27, 29, 31, 33, 34) <b>Problem Set 3 Due</b>
	Mar 16	<b>Spring Break</b>	
	Mar 18	<b>Spring Break</b>	
15	Mar 23	<b>Oxidation/Reduction Reactions</b>	AJ: Fundamentals K
16	Mar 25	<b>The Chemical Reactions of Life 1: Glycolysis</b>	CF: Ch 17.1 – 17.5 (CF Problems: Ch 17: 6, 7, 9, 14, 15, 17, 19, 20, 21, 22, 30, 32, 36, 50)
17	Mar 30	(Cont'd)	
18	Apr 1	<b>The Chemical Reactions of Life 2: The Citric Acid Cycle</b>	CF: Ch 19.1 – 19.9 (CF Problems: Ch 19: 1, 2, 7, 8, 11, 13, 15, 21, 29, 37, 39, 43, 46, 50) <b>Quiz 3 (Take Home) Due</b>
19	Apr 6	(Cont'd)	
20	Apr 8	<b>The Chemical Reactions of Life 3: Electron Transport and Oxidative Phosphorylation</b>	CF: Ch 20.1 – 20.8 (CF Problems: Ch 20: 2, 5, 6, 13, 15, 22, 27, 31, 39, 40, 44, 49)
21	Apr 13	(Cont'd)	
22	Apr 15	(Cont'd)	<b>Problem Set 4 Due</b>
	Apr 20	<b>Test 3</b>	
	Apr 22	<b>Final Exam Review and Course Evaluations</b>	

