

Lecture #	Day	Date	Chapter	Title	Instructor
<b>August 2019</b>					
1	W	21-Aug	1	Biomolecules	Schaller
2	W	21-Aug	1 & 2	Biochemical Reactions/Cells - Prokaryotes	Schaller
3	M	26-Aug	2 & 3	Cells - Eukaryotes/Water – Structure & Properties	Schaller
4	M	26-Aug	3	Water ionization, pH, Buffers	Schaller
5	W	28-Aug	4	Energy, Reactions & the Role of ATP	Schaller
6	W	28-Aug	5	Amino Acids in Peptides and Proteins	Sokolov
-	F	30-Aug	-	Review	Schaller
<b>September 2019</b>					
-	M	2-Sep	-	No Lecture (Labor Day Recess)	-
7	W	4-Sep	5	Four Levels of Protein Structure. Fibrous & Globular Proteins	Sokolov
8	W	4-Sep	5	Molecular Diseases & Molecular Evolution. Posttranslational Protein Modifications	Sokolov
-	F	6-Sep	-	Review	Sokolov
9	M	9-Sep	5	Properties of Enzymes & Enzyme Kinetics	Sokolov
10	M	9-Sep	6	Michaelis-Menten & Lineweaver-Burk Plots	Sokolov
11	W	11-Sep	6	Enzyme Inhibition	Sokolov
12	W	11-Sep	6	Catalytic Mechanisms & Enzyme Regulation	Sokolov
13	M	16-Sep	6	Monosaccharides	Sokolov
14	M	16-Sep	7	Disaccharides	Sokolov
15	W	18-Sep	7	Polysaccharides & Glycoconjugates	Sokolov
16	W	18-Sep	16	Biological Signal Transduction. Cell-Surface Receptors	Sokolov
-	F	20-Sep	-	EXAM 1 (LECTURES 1-12)	-
-	M	23-Sep	-	Exam 1 Review	Instructors
17	M	23-Sep	16	Steroid & Thyroid Hormone Mechanisms	Sokolov
18	W	25-Sep	8	Glycolysis and Regulation	Rajendran
19	W	25-Sep	8	Gluconeogenesis and Regulation	Rajendran
-	F	27-Sep	-	Review	Sokolov
20	M	30-Sep	8	Pentose Phosphate Pathway and Glycogen metabolism	Rajendran
21	M	30-Sep	9	Oxidation/Reduction (ReDox) Reactions	Rajendran
<b>October 2019</b>					
22	W	2-Oct	9	Citric Acid Cycle	Rajendran
23	W	2-Oct	10	Electron Transport and Oxidative Phosphorylation (ATP Synthesis)	Rajendran
-	F	4-Oct	-	Review	Rajendran
24	M	7-Oct	10	Reactive Oxygen Species and Anti-oxidants	Rajendran
25	M	7-Oct	11	Lipid Structure and Clasification-I	Rajendran
-	W	9-Oct	-	***EXAM 2 (Lectures 13-23)***	-
-	Th-F	10-11-Oct	-	Fall Break	-
-	M	14-Oct	-	Exam 2 Review	Instructors
26	M	14-Oct	11	Lipid Structure and Clasification-II	Rajendran
27	W	16-Oct	11	Membrane and Membrane Transport	Rajendran

28	W	16-Oct	12	Lipid Digestion, Absorption & Biotransformation	Rajendran
-	F	18-Oct	-	Review	Rajendran
29	M	21-Oct	12	Fatty Acid Oxidation	Rajendran
30	M	21-Oct	12	Fatty Acid (FA) Synthesis and Regulation of FA Metabolism	Rajendran
31	W	23-Oct	12	Triglyceride, Phospholipid & Sphingolipid Metabolism	Rajendran
32	W	23-Oct	12	Cholesterol & Atherosclerosis	Rajendran
33	M	28-Oct	16	Integration of Metabolism: Feeding-Fasting Cycle	Rajendran
34	M	28-Oct	14	Nitrogen Fixation, Assimilation & Transamination	Schaller
35	W	30-Oct	14	Amino Acid Synthesis	Schaller
36	W	30-Oct	14	Nucleotide Structures & Purine Nucleotide Synthesis	Schaller
-	F	1-Nov	-	Review	Rajendran/Schaller
<b>November 2019</b>					
37	M	4-Nov	14	Pyrimidine Nucleotide & Deoxynucleotide Synthesis	Schaller
38	M	4-Nov	15	Protein Turnover & Amino Acid Catabolism	Schaller
39	W	6-Nov	15	Nucleotide & Heme Catabolism	Schaller
40	W	6-Nov	17	DNA Structures and Chromosomes	Schaller
-	F	8-Nov	-	EXAM 3 (Lectures 24-35)	-
-	M	11-Nov	-	Exam 3 Review	Instructors
41	M	11-Nov	17	RNA & Viruses	Schaller
42	W	13-Nov	18	DNA Replication - general principles	Schaller
43	W	13-Nov	18	DNA Replication - Prokaryotes vs Eukaryotes; DNA Repair	Schaller
44	M	18-Nov	18	Transcription & RNA Processing - general principles	Schaller
45	M	18-Nov	18	Regulation of Gene Expression	Schaller
46	W	20-Nov	18	The Genetic Code	Schaller
47	W	20-Nov	none	Nucleic Acid Sequences	Schaller
-	F	22-Nov	-	EXAM 4 (Lectures 36-47)	-
-	M-F	25-29-Nov	-	Thanksgiving Break	-
<b>December 2019</b>					
-	M	2-Dec	-	Exam 4 Review	Instructors
48	M	2-Dec	18	Translation	Schaller
49	W	4-Dec	18	Carcinogenesis	Schaller
50	W	4-Dec	19	Blood Clotting	Schaller
-	F	6-Dec	-	MAKEUP EXAM (comprehensive, Lectures 1-52)	-
-	M	9-Dec	-	Makeup exam review	Instructors
-	Th	12-Dec	-	Last day of class	-
-	M	16-Dec	-	Final Exam week starts	-
-	-	-	-	Date to be Determined: FINAL EXAM (comprehensive, lectures 1-52)	-