

### Course Schedule

Lec	Date	Topic	Reading	Assignment
L1	We 9/27	Introduction. The Chemistry of Life I	1.1-2	
<i>W1</i>		<i>Background &amp; back of the envelope</i>		
L2	Fr 9/29	Introduction. The Chemistry of Life II	1.3	PS1 Out
L3	Mo 10/2	Water	2	
L4	We 10/4	Nucleotides, Nucleic Acids, & Genetic Information I	3.1-2	
<i>W2</i>		<i>Working with PYMOL /Software troubleshoot</i>		
L5	Fr 10/6	Nucleotides, Nucleic Acids, & Genetic Information II	3.3-4	PS1 Due <i>JL</i>
L6	Mo 10/9	Nucleotides, Nucleic Acids, & Genetic Information III	3.5	
L7	We 10/11	Amino Acids	4	
<i>W3</i>		<i>PDB to explore topics so far</i>		
L8	Fri 10/13	Proteins – Primary Structure	5.1-2	PS2 Due
L9	Mo 10/16	Proteins – Primary Structure	5.3-4	
L10	We 10/18	Proteins – Three-dimensional Structure I	6.1-2	
<i>W4</i>		<i>FoldIt</i>		
L11	Fri 10/20	Proteins – Three-dimensional Structure II	6.3-4	PS3 Due
L12	Mo 10/23	Proteins – Three-dimensional Structure III	6.5	
L13	We 10/25	Protein Function I – Myoglobin & Hemoglobin	7.1	
<i>W5</i>		<i>Midterm Review</i>		
L14	Fri 10/27	Protein Function II – Muscle Contraction and Cytosk.	7.2	PS4 Due
L15	Mo 10/30	Protein Function III – Antibodies	7.3	
L16	We 11/1	Carbohydrates I – Mono & Poly	8.1-2	Mid. Due
<i>W6</i>		<i>Workshop</i>		
L17	Fr 11/3	Carbohydrates II – Glycoproteins	8.3	
L18	Mo 11/6	Lipids and Biological Membranes I	9.1-2	
L19	We 11/8	Lipids and Biological Membranes II	9.3	
<i>W7</i>		<i>Workshop</i>		
L20	Fr 11/10	Lipids and Biological Membranes II	9.4	PS5 Due
L21	Mo 11/13	Membrane transport I – Thermo and Passive	10.1-2	
L22	We 11/15	Membrane transport II – Active	10.3	
<i>W8</i>		<i>Workshop</i>		
L23	Fri 11/17	Enzymatic Catalysis I	11.1-3	PS6 Due
L24	Mo 11/20	Enzymatic Catalysis II	11.4-5	
L25	We 11/22	Enzyme Kinetics, Inhibition, & Control I	12.1-2	
<i>W9</i>		<i>Exploring enzymes</i>		
	11/23-24	<b>Thanksgiving Break</b>		
L26	Mo 11/27	Enzyme Kinetics, Inhibition, & Control II	12.3-4	
L27	We 11/29	Biochemical Signaling I	13.1-2	PS7 Due
<i>W10</i>		<i>Exam review</i>		
L28	Fr 12/1	Biochemical Signaling II	13.3-4	

\* Midterm available online 10/25-31. The final will be available by Dec. 6<sup>th</sup> and due Dec. 8<sup>th</sup>.