

**Schedule of classes and readings, BIOCH 265 Spring 2009**

(as of Jan 05, 2009)

Note that this is only a tentative schedule. Exam dates are fixed, however. Powerpoint slides for each class period will be posted at least one day before the lecture. You are welcome to download and bring a printout to the class. Also note that a total of five pop-up quizzes will occur on randomly selected Fridays. Please see the general info page for more details.

<b>Date</b>	<b>Topic</b>	<b>Chapters</b>	
<u>week 1</u>			
Jan 16	Introduction: why, what and how?	class notes	
<u>week 2</u>			
Jan 19	<b>University Holiday; no lecture</b>		
Jan 21	Atoms and chemical bonds	1	
Jan 23	Molecular structures and interactions	1	
<u>week 3</u>			
Jan 26	Introduction to chemical reactions	2	
Jan 28	Alkanes (saturated hydrocarbons)	3	
Jan 30	Alkenes & alkynes (unsaturated hydrocarbons)	4	
<u>week 4</u>			
Feb 2	Aromatics	4	
Feb 4	Alcohols, phenols	5	
Feb 6	Aldehydes & ketones	6	
<u>week 5</u>			
<b>Feb 9</b>	<b>Review</b>	<b>EXAM 1 5:30 pm</b>	<b>1 through 6</b>
Feb 11	Carboxylic acids		7
Feb 13	Esters		7
<u>week 6</u>			
Feb 16	Amines		8
Feb 18	Amides		8
Feb 20	Carbohydrates - simple sugars		10
<u>week 7</u>			
Feb 23	Oligo- & poly-saccharides		10
Feb 25	Fatty acids		11
Feb 27	Glycerol lipids		11
<u>week 8</u>			
<b>Mar 2</b>	<b>Review</b>	<b>EXAM 2 5:30 pm</b>	<b>7 through 11</b>
Mar 4	Biological membranes		11
Mar 6	Amino acids and stereochemistry		9 & 12
<u>week 9</u>			
Mar 9	Amino acid properties		12
Mar 11	Peptides		12
Mar 13	Proteins		12
<u>week A (Spring Break)</u>			
<u>week 10</u>			
Mar 23	Enzymes		14
Mar 25	vitamins as enzyme cofactors		14
Mar 27	<b>review</b>		12 & 14
<u>week 11</u>			
<b>Mar 30</b>	<b>study</b>	<b>EXAM 3 5:30 pm</b>	<b>12 through 14</b>
Apr 1	nucleic acids		13
Apr 3	genetic code		13
<u>week 12</u>			
Apr 6	protein synthesis		13
Apr 8	Principles of metabolism		14
Apr 10	Bioenergetics: Inputs and Outputs		14 - 15
<u>week 13</u>			
Apr 13	Citric acid cycle		15
Apr 15	Carbohydrate metabolism-glycolysis		15
Apr 17	glycogenesis		15
<u>week 14</u>			
<b>Apr 20</b>	<b>Review</b>	<b>EXAM 4 5:30 pm</b>	<b>13 through 15</b>
Apr 22	Pentose phosphate pathway & glycogen		15
Apr 24	photosynthesis		class notes

week 15

Apr 27	Hormones affecting metabolism	class notes
Apr 29	lipid degradation	16
May 1	fatty acid biosynthesis	16

week 16

May 4	protein & amino acid degradation	17
May 6	Nutrition	18
May 8	<b>Review</b>	<b>16 through 18</b>

week 17

May 13	<b>Final EXAM 5</b>	<b>11:50 am - 12:50 pm</b>
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