

## Bio 1A Syllabus

Fall 2015

### Lecture

8/24 Intro  
8/26 Ch 1, Ch 2 (review)  
8/28 Ch 3 Water properties  
  
8/31 Ch 4 Carbon Properties  
9/2 Ch 5 Macromolecules  
9/4 Ch 5 cont  
  
9/7 **Labor Day Holiday**  
9/9 Ch 5 cont  
9/11 Ch 8 Metabolism  
  
9/14 Ch 6 Cells  
9/16 Ch 6 cont  
9/18 Ch 36, 40 Tissues  
  
9/21 Ch 7 Membrane Structure  
9/23 Ch 7 cont  
9/25 Ch 9 Cell respiration  
  
9/28 Ch 9 cont  
9/30 Ch 10 Photosynthesis  
10/2 Ch 10 Photosynthesis  
  
10/5 Ch 11 Cell Communication  
10/7 Ch 12 Mitosis  
10/9 Ch 12 Mitosis  
  
10/12 Ch 13 Meiosis  
10/14 Ch 13 cont  
10/16 Ch 14 Genetics  
  
10/19 Ch 14 cont  
10/21 Ch 14 Genetics  
10/23 Ch 15 More Genetics  
  
10/26 Ch 15 More Genetics  
10/28 Ch 15 DNA  
10/30 Ch 16 DNA

### Lab

8/25 Process of Science#  
8/27 Properties of Water  
  
9/1 Acids and Bases\*  
9/3 Properties of Enzymes  
Syllabus quiz due  
  
9/8 Enzymes in Detergents  
9/10 Biological Macromolecules\*  
  
9/15 **Exam # 1 Ch 1-5, 8**  
9/17 Plant Cells and Tissues  
Microscope quiz  
  
9/22 Animal Cells and Tissues  
9/24 Stress on Cell Membranes\*  
  
9/29 Fermentation and respiration  
10/1 Photosynthesis  
  
10/6 Field Trip  
10/8 Mitosis and Cell Division  
  
10/13 Review  
10/15 **Exam # 2: Ch6, 7, 9-12**  
  
10/20 Meiosis  
10/22 Exploring Genetics  
  
10/27 Genetics Problem Set#  
10/29 Race for the Double Helix#

11/2	Ch 17 DNA to protein	11/3	Learning about DNA
11/4	Ch 17 cont	11/5	DNA and protein synthesis
11/6	Ch 20 DNA Technology		
11/9	Ch 20 DNA Technology	11/10	Gel Electrophoresis I
11/11	<b>Veterans Day Holiday</b>	11/12	Gel Electrophoresis II*
11/13	Ch 20 DNA technology		
11/16	Ch 43 Immune	11/17	<b>Exam # 3 Ch 13-17</b>
11/18	Ch 43 Immune	11/19	Biotech Ethics & Dilemmas
11/20	Ch 43 Immune		
11/23	Ch 46 Reproduction	11/24	Antigen and Antibodies*
11/25	Ch 46 Reproduction	11/26	<b>Thanksgiving</b>
11/27	<b>Thanksgiving Holiday</b>		
11/30	Ch 46 Reproduction	12/1	Animal Reproduction
12/2	Ch 46 Circulatory	12/3	Circulatory System
12/4	Ch 42 Circulation		
12/7	Ch 42 cont	12/8	Review
12/9	Seminar Discussion	12/10	<b>Exam # 4 Ch 20,42,43,46</b>
12/11	Review for Final		

**Tuesday 12/15      8-11      Cumulative Final**

**Due Dates**

- 1) 4 Formal labs due – these are the labs with an asterisk. They are due 1 week after the lab was completed and will be graded at 25, 20, 15 points
- 2) Informal Labs – questions and/or sketches will be turned in for these labs at the next lab meeting. They are graded at 10 or 5 points
- 3) Labs marked with (#) do not turn in a lab report
- 4) Field Trip Report due Exam # 2– newspaper article reporting the event and graded at maximum 20 points.
- 5) Online quizzes Syllabus quiz due 9/3 Microscope Quiz Due by 9/17
- 6) Genetics Problem set due 10/29
- 7) Seminar Discussion paper “The Double Helix” due 12/9