

<b>Principles of Biology 1 Schedule</b>	
<b>Note:</b>	Pop quizzes may be expected over previous work and readings. Changes to schedule may be made as needed.
<b>Week:</b>	<b>Schedule, Topics, Assignments:</b>
8/22/2006	Introductions: Students, teacher, materials? Thinking about life. Writing about life. Turn in paragraph. Safety Lab. Lab Packet pp. 4 - 6. <b>Assignment: Read Chapter 1.</b>
8/29/2006	Review characteristics of life and group work on Chapter 1, including scientific method. End of chapter questions in class. <b>Assignment: Read Chapter 2. Organisms need both inorganic and organic compounds.</b> Basic Chemistry worksheet. Introduce inorganic vs. organic molecules.
9/5/2006	Labor Day Holiday - Monday Discuss organic compounds: structure, function, how to recognize. Video on organic molecules. <b>Read Basic Chemistry Lab pp. 7 - 10 in packet before class. Assignment: Read Chapter 3.</b>
9/12/2006	Lab on Organic Chemistry. Review for Test #1, Chapters 1-3
9/19/2006	<b>Test #1, Chapters 1-3</b> Read Chapter 4, The Cell. Review Test #1. Discuss Chapter 4, The Cell. Worksheet. <b>Read Microscope lab before class.</b>
9/26/2006	Microscope Lab, pp. 11 - 18. Bring in pond water for examination under microscope. <b>Read Chapter 5, Membrane Structure and Function.</b> Discuss the Cell Membrane; group work on worksheet. Read Lab on Diffusion and Osmosis. pp. 19 - 24. lab packet.
10/3/2006	Lab on Diffusion and Osmosis. Video on transport in cells. Review the steps in writing a lab report, lab packet. First Lab Report due 10/10 (25 pts.) Finish discussion of Chapter 5. Trip to Tanyard Creek and worksheet if weather permits.
10/10/2006	Review for Test #2: Chapters 4 and 5. Computer Lab: Faculty Web/mynwacc.edu Computer Lab Exercise, due 10/19th <b>Test #2, Chapters 4 and 5. Read Chapter 6, Energy and Enzymes.</b> Discuss Energy and Enzymes. Worksheets. Lab on Enzymes. <b>Read Chapter 7, Photosynthesis.</b>

10/17/2006	Introduce Photosynthesis. Videos. Review Flow Chart on Photosynthesis. <b>Read Photosynthesis lab, pp. 27 - 33.</b> Photosynthesis worksheets. Photosynthesis Lab. Second lab report due 11/07 (25 pts.) <b>Read Chapter 8, Cellular Respiration</b>
10/24/2006	Discuss Cellular Respiration. Review Chapters 6 - 8. Videos. Review Flow Charts and Worksheets for Test #3, Chapters 6-8.
10/31/2006	<b>Test #3: Chapters 6 -8. Read Chapter 9 Mitosis.</b> Discuss Chapter 9. Worksheet on Mitosis. Read: Mitosis Lab, pp. 34 - 37 in packet. Review Test #3
11/7/2006	Mitosis Lab. <b>Read Chapter 10, Meiosis and Sexual Reproduction.</b> Discuss process of Meiosis. Worksheet on Meiosis. Students may choose topics from Chs. 11 and 12. <b>Read Chapter 11, Mendelian Patterns of Inheritance and read Chapter 12, Chromosomal Patterns of Inheritance.</b>
11/14/2006	Student reports on genetic disorders from Chs. 11 and 12. <b>Read Genetics lab, pp. 38 - 49. Read Chapter 13, DNA.</b> Condensed notes on Chapters 14 - 16, DNA and Biotechnology. Video.
11/21/2006	Genetics Lab. Read Chapter 17, Darwin and Evolution.
11/23/2006	Thanksgiving!
11/28/2006	Discuss Evolution, condensed notes from Chapters 17 and 18. Video on Web of Life, Biodiversity. Begin discussion of Ecology (teacher provides outline and notes.)
12/1/2006	Biology Reports/Service Learning Reports Due
12/5/2006	<b>Students who wish may give 5-10 minute report on their biology report (+5 extra pts.)</b> <b>Review for Final Exam, Chapters 9, 10, 11, 12, 13, condensed notes 14-16, 17 and condensed notes Chapter 18.</b> <b>Last Day of Class.</b>
12/12/2006	Final Exam at normal time, 11:00 a.m. Bring Tanyard Creek Worksheets.
