

| Biology 1544 Schedule |                                                                                                                                                                                                                                                             |
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|                       | <u>Mader Introductory Biology, 7th Edition "Lab Packet in Bookstore.</u><br>Mader home page: <a href="http://www.mhhe.com/biosci/genbio/mader7">www.mhhe.com/biosci/genbio/mader7</a>                                                                       |
|                       | This is tentative. Changes may have to be made to meet class goals.                                                                                                                                                                                         |
| <b>Note:</b>          | Pop quizzes may be expected over previous work and readings.                                                                                                                                                                                                |
| *                     | Represents assignment which will count as a grade.                                                                                                                                                                                                          |
| <b>Week of:</b>       | <b>Schedule, Topics, Goals:</b>                                                                                                                                                                                                                             |
| Aug. 25               | Introductions: Students, teacher, materials?<br>Thinking about life. Writing about life. Turn in paragraph.*<br>Video on Living Systems: Note taking pointers.<br><b>Assignment: Read Chapter 1. Safety Video</b>                                           |
| Sept. 1               | Review characteristics of life and group work on scientific method. End of chapter questions in class. *<br><b>Assignment: Read Chapter 2.</b>                                                                                                              |
| Sept. 8               | Organisms need both inorganic and organic compounds.<br>Video on Basic Chemistry; worksheets. *<br><b>Read Basic Chemistry Lab in packet before class.</b><br>Recycling talk by Marcia Schoonert; Service Learning Intro. Video on Modern Marvel, Garbage * |
| Sept. 15              | Lab on Organic Chemistry. * <b>Assignment: Read Chapter 3 and answer questions at end.</b><br>Discuss organic compounds: structure, function, how to recognize.<br>Read Chapter 4, The Cell.                                                                |
| Sept. 22              | Discuss Chapter 4, The Cell. Worksheet*<br>Microscope Lab. * Read Microscope lab before class.<br>Bring in pond water for examination under microscope.<br><b>Read Chapter 5, Membrane Structure and Function.</b>                                          |
| Sept. 29              | Discuss the Cell Membrane, Chapter 5. Group work on Cell Membrane worksheet.<br>Lab on Diffusion and Osmosis. Video on transport in cells. *<br>Review the steps in writing a lab report. First Lab Report due Feb. 26th. Review for Test #1.               |
| Oct. 6                | Test #1, Chs. 1- 5<br><b>Read Chapter 6, Metabolism, Energy, Enzymes. Discuss Chapter 6.</b><br>Group work on Cell Energy Worksheets. If weather permits, trip to Tanyard Creek with worksheets.                                                            |
| Oct. 13               | Review Test #1. Finish discussing Chapter 6. Review worksheets.<br><b>Read Chapter 7, Photosynthesis.</b><br>Review Flow Chart on Photosynthesis. Photosynthesis Lab.* Second lab report due March 24th.<br>Photosynthesis Worksheets by groups. *          |
| Oct. 20               | <b>Read Chapter 8, Cellular Respiration</b><br>Flow Chart review. Worksheet. Videos. *<br>Review for second test, Chapters 5 - 8. <b>Test #2, Mar. 12th.</b>                                                                                                |
| Oct. 27               | <b>Read Chapter 9, Cell Division, Cellular Reproduction.</b><br>Mitosis Lab in packet. * Worksheet on Mitosis. *<br><b>Read Chapter 10, Meiosis and Sexual Reproduction.</b>                                                                                |
| Nov. 3                | Discuss process of Meiosis. Worksheet on Meiosis. *<br><b>Read Chapter 11, Mendelian Patterns of Inheritance.</b>                                                                                                                                           |