Reedley College – Biology 5 ­– #51212

Fall 2016 Tentative Lecture and Lab Schedule

*Human Biology* (Mader & Windelspecht, 14e)

Lecture meets TTh 6:00 p.m. to 7:15 p.m. Lab meets on TTh 7:25 p.m. to 8:15 p.m. .

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| Week | Date (Tuesday) | Lecture Topics (TTh) | Lab Material (Th) |
| 1 | August 16 | Introduction  (1) Exploring Life  (2) Chemistry of Life  Chemistry Worksheet | Lab 2 - Metric System  Lab 3 - Light Microscopy  Plate #1 – Letter E and Cheek Cells |
| 2 | August 23 | (2) Chemistry of Life (cont'd)  (3) Cell Structure and Function | Lab Safety  Lab 4 - Chemical Composition of Cells  In class – Quiz 1 – Ch. 2 |
| 3 | August 30 | (3) Cell Structure and Function (cont'd)  (4) Organization and Regulation of Body Systems | Lab 5 - Cell Structure and Function  Plate #2 – The Animal Cell  \*\* Quiz 2 – Ch. 3 (8-25 to 9-11) |
| 4 | September 6  Monday, Sept. 5 Labor Day – No Classes | (4) Organization and Regulation of Body Systems (cont'd)  Review | Lab 6 - Body Tissues  Plate #3 – Epithelial Tissue  Plate #4 – Connective Tissue |
| 5 | September 13 | Lecture/Lab Exam 1 –  (Ch. 1,2,3,4 and Labs 3,4,5 and Metrics)  (5) Heart and Blood Vessels | Lab 7 - Organization of the Body  \*\* Quiz 3 – Ch. 5 (9-15 to 10-2) |
| 6 | September 20 | (5) Heart and Blood Vessels (cont'd)  (6) Blood  Plate #6 – Types of Blood Cells | Lab 8 - Cardiovascular System  Plate #5 – Structure of the Heart  In class – Heart Quiz |
| 7 | September 27 | (7) Lymphatic and Immune Systems and (8) Infectious Diseases    (9) Digestive System and Nutrition | Lab 9 – Digestive Enzymes  In class – Quiz 4 – Ch. 9  Plate #7 – Tissues of the Small Intestine |
| 8 | October 4 | (9) Digestive System and Nutrition (cont’d)  Review – | Lecture/Lab Exam 2 -  (Ch. 5,6,7,9 and Labs 6,7,8) |
| 9 | October 11 | (10) Respiratory System  Spirogram  (11) Urinary System | Lab 11 – Homeostasis Plate #8 – Structure of the Nephron  \*\* Quiz 5 – Ch. 11 (10-2 to 10-13) |

October 14 (Friday) – Last day to drop a Fall 2016 class. \*\*On-line Quiz Electronic Smartbook

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| Week | Date (Tuesday) | Lecture Topics (TTh) | Lab Material (Th) |
| 10 | October 18 | (12) Skeletal System  (13) Muscular System | Lab 12 - Musculoskeletal System  In class – Bones and Muscles Quiz |
| 11 | October 25 | Lecture/Lab Exam 3 – (Ch.10,11,12,13 and Labs 11,12)  (14) Nervous System | Lab 13 – The Nervous System and Senses  Plate #9 – Lobes of the Brain  \*\* Quiz 7 – Ch. 14 (10-27 to 11-6) |
| 12 | November 1 | (15) Senses  (16) Endocrine System  (17) Reproductive System | Pig Dissection |
| 13 | November 8  Friday, Nov. 11 – Veterans Day No classes; campus open | (18) Human Development  (19) Cell Division - Chromosome Inheritance | Lab 14 – Reproduction and Development  In class – Quiz 8 – Ch. 17  \*\* Quiz 9 – Ch. 19 (11-10 to 11-20) |
| 14 | November 15 | Lecture/Lab Exam 4 –  (Ch. 14,15,16,17,19 and Labs 13,14)  (21) Genetic Inheritance | Lab 15 - Mitosis and Meiosis  Plate #10 – Phases of Mitosis  Mitosis Quiz |
| 15 | November 22 | Genetics Problems  (22) DNA Biology and Technology | Nov.24 – Thanksgiving Day |
| 16 | November 29 | (23) Human Evolution    (24) Global Ecology and Human Interferences | Lab 18 - Human Evolution  \*\* Quiz 10 – Ch. 22 |
| 17 | December 6 | (25) Human Population, Planetary Resources, and Conservation | DVD –  "An Inconvenient Truth" |
| 18 | December 13 | No Class | Final Lecture Exam – (Ch. 21,22,23,24,25 and Labs 15,18,Genetics Problems & comprehensive) |
| Finals Week: Final Lecture Exam (150 points – comprehensive), Tues., December 13, 6:00-8:15 p.m. | | | |

This schedule is tentative and may change depending on the needs of instruction, the class, or the instructor. \*\*On-line Quiz Electronic Smartbook