

BIOL SCI 221 – INTRODUCTION TO MICROBIOLOGY
LABORATORY SCHEDULE – Spring 2012
Tuesday/Thursday

| DATE | DESCRIPTION | EXERCISE |
|-------------|---|--|
| Feb. 7 | Safety Introduction to Phase-Contrast Microscopes, Protozoa | pp. 1-6, Ex. 3-1,3-3; 12-3, pp. 95-99* |
| Feb. 9 | Protozoa, Ocular Micrometer | Ex.12-3,3-2,3,4; Ex. 2-1* |
| Feb. 14 | Fungi, Aseptic technique (Eaten Alive) | Ex. 12-1,3-3,1-3 |
| Feb. 16 | Culture Media Preparation, Pure Culture Technique Start Building Stock Cultures | Ex. 1-2,3,4; 2-12* |
| Feb. 21 | Helminths, Eaten Alive | Ex. 12-4 |
| Feb. 23 | Bacterial Population Counts | Ex. 6-1, 6-3*,1-5 App. C &E, (Handout) |
| Feb. 28 | Bacteriophage Clearing, Titer, Sterile Technique/Transfer Assessment | Ex. 6-5 |
| March 1 | Temperature and Growth pH and Microbial Growth Osmotic Pressure and Microbial Growth | Ex. 2-9 Ex. 2-10 Ex. 2-11 |
| March 6 | Lethal Effect of Ultraviolet Light Antiseptics: Evaluation of Alcohol Use Dilution: Disinfectant Effectiveness Antimicrobial Sensitivity Testing | Ex. 2-13 (Handout) Ex. 2-14 Ex. 7-3 |
| March 8 | Bacteria, Smear Prep, Simple and Negative Staining | Ex. 3-5, 3-6 |
| March 13 | Gram Staining | Ex. 3-7 |
| March 15 | Spore, Acid Fast and Capsule Staining | Ex. 3-10, 3-8, 3-9* |
| March 20 | Stock Culture and Culture Characteristics Review, Oxygen requirements, and Selective Media | Ex. 2-1,2,3,4; 2-7,8; 4-4,5,6 |
| March 22 | Physiological Characteristics: Fermentation and Utilization tests | Section 5: 5-3,4,5,6,8 |
| March 27 | Physiological Characteristics: Hydrolytic and Differential tests | Section 5: 5-12,13,14,15,21,25; Indole |
| March 29 | Evaluations | Section 5 |
| April 3 | SPRING BREAK | |
| April 5 | SPRING BREAK | |
| April 10 | Stain Review, Gram Stain Assessment | Ex. 5-31 |
| April 12 | Unknown #1 | |
| April 17 | Unknown #1 | |
| April 19 | Unknown #1 | |
| April 24 | Unknown #1 | |
| April 26 | Unknown #1 Due / Start Unknown #2 | |
| May 1 | Unknown #2 | |
| May 3 | Unknown #2 | |
| May 8 | Unknown #2 | |
| May 10 | Unknown #2 | |
| May 15 | Unknown #2 Due Miniaturized Multitest Systems | Ex. 5-30, + oxiferm test |
| May 17 | Bacterial Examination of Water, Milk, and Food | Ex. 8-12,13; (Handouts) |
| May 22 | Evaluations, Immunology, & Laboratory Check-Out | |
| May 24 | LABORATORY FINAL EXAM | |
| May 29 | Review | |
| May 31 | LECTURE FINAL EXAM | |

* These Exercises are to READ ONLY