

MCB 3020L LABORATORY SYLLABUS FALL 2009

| DATE | TOPIC | EXERCISE # |
|-------|---|-------------|
| 08-26 | Microorganisms around us; Aseptic technique (no quiz) | 1,2 |
| 09-02 | Cultural characteristics; Enumeration of bacterial populations; Staining procedures | 3,4,5 |
| 09-09 | Use of the microscope; Conditions affecting growth; Selective & differential media | 6,7,8 |
| 09-16 | Bacterial growth curve; Enzymatic activities of bacteria | 9,10 |
| 09-23 | Inoculation of Unknown; Transformation; Restriction enzymes; Gel electrophoresis | 11,12,13,14 |
| 09-30 | WRITTEN MIDTERM EXAM [growth curve report due] | 1-14 |
| 10-07 | Food analysis; Microbial roles in food production | 15,16 |
| 10-14 | Water analysis; IMViC tests; Plaque Assay technique | 17,18,19 |
| 10-21 | Pathogenic protozoa; Fungi; Bacterial roles in the nitrogen cycle [Unknown report due] | 20,21,22 |
| 10-28 | Chemical control of microbial growth; Physical control of microbial growth | 23,24 |
| 11-04 | Normal flora; Pathogenic bacteria; Use of Enterotube; Use of Bactercult tube | 25,26,27,28 |
| 11-11 | VETERANS' DAY HOLIDAY | |
| 11-18 | observe results; evaluations; answer questions about final exam (no quiz) | -- |
| 11-25 | THANKSGIVING HOLIDAY | |
| 12-02 | WRITTEN COMPREHENSIVE FINAL EXAM | 1-25 |

- **Note that labs meet the FIRST DAY!**
- **Lab manual is *Basics for Microbiology Laboratory* by Munro (in bookstores)**
- **No goggles, lab coats, etc., are required but may be worn. Bring a Sharpie marker.**
- **Lab attendance is mandatory, and there are no make-ups for labs or quizzes. If ill, email your instructor within 24 hours of missing lab. Discuss any upcoming time conflicts in advance.**
- **Quizzes cover the material for that day plus the material from the previous lab period. Lowest score will be dropped.**