MICROBIOLOGY LAB
Summer, 2011

LAB MANUAL: Microbiology: Laboratory Theory and Application, 3rd ed., by M.J. Leboffe & B.E. Price

ATTENDANCE/GRADING: The laboratory portion of Microbiology is designed to provide "hands on" learning experiences. In addition, labs are cooperative requiring students to work in pairs of two or four depending on the assignment. Therefore, participation in all laboratory periods is mandatory in order to fully meet course requirements.

Absences WILL have a direct impact on your lab grade as detailed in the course syllabus and discussed during the first class.

Four lab exams (practicals) will be given. The average of these four exams and your attendance/participation grade will account for 30% of your total Microbiology course grade. Due to the extensive setup required for lab practicals, there can be no make-up exams.

CLASS CONDUCT:

- Attendance is extremely important to your success in this class. Absences will result in a lowered final grade. Tarties are counted as absentes.
- **No cell phones or pagers in class.**
- Come prepared: Bring your textbooks, paper, pencils, pens, highlighters…anything you might need for taking notes etc.
- Do not talk in class when your instructor is talking.
- Be courteous and respectful to your classmates.
- Cheating **WILL NOT** be tolerated. Criterion will be the same as stated in the "lecture syllabus"
- No food or drink is allowed in the lab.
- Please wear appropriate clothing.
- Long hair shall be tied back (I'll provide ponytail holders if you do not bring one.)
- Always wash your hands before and after class. You may also wear gloves for lab work if you like.
- Always wear your lab coat and disinfect your lab bench before and after class.
- Please ask questions if you are unsure of how to proceed with a laboratory technique or procedure.

LAB SCHEDULE— Summer Session 2, 2011

July			
M	11	Introduction: Lab Orientation; Microscope (3-1)	
T	12	Observe yogurt and Gram + & Gram - slides	

W	13	Handling and Examining Cultures (1-2,2-8); Hanging Drop (3-12)
Th	14	Gram stain (3-7)
M	18	Acid-Fast Stain (3-8); Special Stains (3-6, 3-9; 3-10, 3-13)
T	19	Pure Culture Techniques (1-3); Cultures from the Environment
W	**20**	**QUIZ 1 (1-2, 1-3, 2-8, 3-1, 3-6, 3-7, 3-8, 3-9, 3-10, 3-12, 3-13)**
Th	21	Primary Media (4-1, 4-5, 4-7); Differential Tests (5-5, 5-8, 5-15, 5-20, 5-21, 5-27)
M	25	Streptococci (5-26), Throat cultures
T	26	complete (5-26); Enterics, enteric pathogens; microscan
W	27	**Unknown Gram Stain & begin flowchart**
Th	28	Haemophilus, Corynebacterium,Bordetella
August		
M	**01**	**QUIZ 2 (4-1, 4-5, 4-7, 5-5, 5-8, 5-15, 5-20, 5-21, 5-27, 5-26)**
T	02	Legionella, Pseudomonas
W	03	Neisseria and Spirochetes; Urinary Tract Infections; Hepatitis
Th	**04**	**QUIZ 3 (Enteric, Nonenteric pathogens, Urinary Infections, Hepatitis); QUIZ 3 (Enteric, Nonenteric pathogens, Urinary Infections, Hepatitis);**
M	08	Fungi (11-1); Protozoans and Helminthic Worms (11-2, 11-3)
T	09	Protozoans, Helminthic Worms cont.; Antiseptics and Disinfectants; Antibiotic (7-3)
W	**10**	**QUIZ 4; Turn in flow sheets and results for unknowns**
TH	**11**	**No Lab**