BIOL 346 MICROBIOLOGY LAB Spring 1999

Instructor: Craig L. Moyer

TAs: Jason Yada *or* Ann Henriksen Lab: WF 10-12 *or* WF 1-3 @ BI 454

Homepage: http://fire.biol.wwu.edu/biology/courses.html (go to Courses)

Required Manual:

(1) Peele, E.R., and C.L. Moyer. 1999. *Microbiology Lab Manual*. Western Washington University, Bellingham, WA. (Available at the Western's Bookstore)

(2) Leboffe, M. J., and B. E. Pierce. 1999. *A Photographic Atlas for the Microbiology Laboratory*, 2nd edition. Morton Publishing Co. (Available at the Western's Bookstore)

Evaluation of Coursework:

Dilution Problems	30
Unknown #1	20
Unknown #2	40
Lab Notebooks	70
Two Lab Exams @ 50 pts each	100
Final Lab Exam	<u>100</u>

Total Points: 360

TENTATIVE LABORATORY SCHEDULE

WEEK	LAB DATE	EXERCISES
Week 1	Mar 31 Apr 02	Introduction; Lab Safety Microscopy; Simple Stains; Wet Mounts &
	Apr 02	Hanging Drop Slides
Week 2	Apr 07	Differential Stains, Part I - Gram Stain
Apr 09	Apr 09	Differential Stains, Part II - Spore Stain & Capsule Stain
Week 3	Apr 14	Dilutions; Aseptic Technique; Media Prep
	Apr 16	Isolation of Pure Cultures; Unknown #1
		Due Date: Dilution Problems
Week 4	Apr 21	Bacterial Enumeration
		Due Date: Unknown #1
	Apr 23	Bacterial Enumeration, continued
Week 5	Apr 28	Effect of Environmental Factors on Bacterial Growth
		Lab Exam I
	Apr 30	Isolation of Streptomyces
Week 6	May 05	Selective and Differential Media
	May 07	Biochemical Tools for Identification of Gram+ Bacteria
Week 7	May 12	Biochemical Tools for Identification of Gram- Bacteria
	May 14	Rapid ID Test Strips; Unknown #2
Week 8	May 19	Bacterial Genetics
		Lab Exam II
	May 21	UV Radiation; Ames Test
Week 9	May 26	Disinfectants & Antiseptics; Kirby-Bauer Test
	May 28	Water Analysis; Food Microbiology; Snyder Test
		Due Date: Unknown #2
Week 10	Jun 02	Complete Water & Food Analyses; Clean-up & Check-out
	Jun 04	Lab Final