

Instructor: Craig L. Moyer
Grad TA: Richard Llewellyn
Undergrad TAs: Jessica Brzana *or* Lesli Reithmeier
Labs: WF 1-3pm *or* 4-6pm @ BI 454
Website: <http://fire.biol.wvu.edu/cmoyer/courses.html>

Required Manuals:

(1) Peele, E.R., and C.L. Moyer. 2000. *Microbiology Lab Manual*. Western Washington University, Bellingham, WA. (Available online at class Website)
Note: *You are required to have your copies of the lab(s) before each lab starts!*

(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	90
Two Lab Exams @ 50 pts each	100
<u>Final Lab Exam</u>	<u>120</u>
Total Points:	400

MICROBIOLOGY “TENTATIVE” LABORATORY SCHEDULE

WEEK	LAB DATE	EXERCISES
Week 1	Mar 29 Mar 31	Introduction; Lab Safety Microscopy; Simple Stains; Wet Mounts & Hanging Drop Slides
Week 2	Apr 05 Apr 07	Differential Stains, Part I - Gram Stain Differential Stains, Part II - Spore Stain & Capsule Stain
Week 3	Apr 12 Apr 14	Dilutions; Aseptic Technique; Media Prep Isolation of Pure Cultures; Unknown #1 Due Date: Dilution Problems
Week 4	Apr 19 Apr 21	Bacterial Enumeration Due Date: Unknown #1 Bacterial Enumeration, continued
Week 5	Apr 26 Apr 28	Effect of Environmental Factors on Bacterial Growth Lab Exam I Isolation of <i>Streptomyces</i>
Week 6	May 03 May 05	Selective and Differential Media Biochemical Tools for Identification of Gram+ Bacteria
Week 7	May 10 May 12	Biochemical Tools for Identification of Gram– Bacteria Rapid ID Test Strips; Unknown #2
Week 8	May 17 May 19	Bacterial Genetics Lab Exam II UV Radiation; Ames Test
Week 9	May 24 May 26	Disinfectants & Antiseptics; Kirby-Bauer Test Water Analysis; Food Microbiology; Snyder Test Due Date: Unknown #2
Week 10	May 31 Jun 02	Complete Water & Food Analyses; Clean-up & Check-out Lab Final