

LAB SCHEDULE FOR MICROBIOLOGY 281, FIRST HALF page 9

FIRST NOTEBOOK GRADING, SUMMER QUARTER 2008

25June96, 6 July97, 29 June98, 18 June99, 29June00, 28June02, 26June03, 1July04, 27June05, 22June06, 19June07, 28June08

http://biology.clc.uc.edu/fankhauser/Labs/Microbiology/Lab_Schedule_First_Half.htm

Mount this schedule inside the front cover of your Lab Notebook:

DATE	LAB ACTIVITIES	HANDOUTS & PROTOCOLS	ILLUSTRATIONS&DATA
M 7/7	Keeping a notebook Intro to Lab Microscope care & use	Lab Schedule, Part I Handout Table of Contents I Laboratory Notebook Procedures Format for Table of Contents Use of Contact Paper <i>Sample</i> First Notebook Gradesheet Notebook Illustrations Making Root Beer at Home Index to Micro Slides Binocular Microscope Use & Care Using and Evaluating Microscope Bacterial Morphology	Diagram of typical NB page Microscope Illustration Bacterial morphologies (3 types at 400x)
W 7/9	Bacterial smear and staining Oil immersion technique	Sample Math Problems, Micro Use of Oil Immersion Objective Equipment for a Micro Work St'n Bacteriological Smear & Staining Buccal Smear Bacterial Flora of Teeth	Steps of using oil immersion Bacterial morphologies (3 types at 1000x) <i>Bacillus anthracis</i> Buccal Smear Tooth scrapings
F 7/11	LAB FIRST TODAY Prepare a variety of solid media	Microbiological Media Prep Commonly Used Micro Media Commonly Used Media: Phage Autoclave Use	Balance weights, beaker tare <i>Your</i> weights for media prep. Autoclave: numbers on dials
M 7/14	Gram stain Milk Fermenters	Gram Stain Protocol Milk Fermenters	Bacteriological loop Gram stain: yogurt & <i>E. coli</i> Bacteria in fermented milk Gram stain of fecal smear
W 7/16	LAB FIRST TODAY Bacterial growth curve If time: Wet mount Sporulating bacteria (prepared slides)	Bacterial Growth Curve Spectrophotometer Use Graph Construction Prep. of Wet Mount	Bubbler apparatus Spectrophotometer Growth Curve Readings Bact. growth, linear graph Bacterial motility Sporulating bacteria
F 7/18	Graphing Workshop Pipetting practice Serial dilutions	3 cycle semi-log graph paper Dilutions Principles Sample Problems Pipetting Practice Serial Dilutions	Bact. growth, semi-log graph Pipette diagram, meniscus Diagram of serial dil'n tech. Repipet w/ means to set vol. Graph A_{660} vs dye conc
M 7/21	Sterile technique Plate Spreading Tech. Plate Count (Bring in antiseptic agents for F Lab)	Yeast Plate Count Protocol Sterile Technique: Delivery of Liquids by Pipet Spreading Technique	Spreader, turntable A_{660} of 10^2 yeast dilution
W 7/23	Count plates, calc'ns		yeast plate count data Yeast cells Contaminants of yeast plates
F 7/25	Prepared Slides NOTEBOOKS DUE	Bacterial Features, Prepared Slides	Bacterial Features capsules <i>Mycobacterium tuberculosis</i> Agar overlay principles