

**Biology 2400 – General Microbiology
Tentative Laboratory Schedule
Monday & Wednesday S1602**

Date	Experiment
August 27	Laboratory Introduction and check-in
September 1	Labor Day, No Class
September 3	Survey of Microorganisms and micrometry
September 8	Negative stain
September 10	The Gram stain
September 15	The Endospore stain
September 17	The Acid fast stain
September 22	Exam II – No Lab
September 24	Bacteria in motion – hanging drop and motility agars: TTC & SIMS
September 29	Streak plate/ Oxygen and Bacterial Growth
October 1	Temperature and Bacterial growth / MPN
October 6	Differential, Selective and Enriched media / Fermentation of Sugars
October 8	Tests: H ₂ S, Indole, Citrate, Urease and Starch hydrolysis
October 13	Review tests and staining methods
October 15	Bacterial Unknown – set-up streak plate & staining
October 20	Set- up tests
October 22	Examine tests and identify unknowns
October 27	Exam III – No lab
October 29	Standard Plate Count and Sanicheck system
November 3	Conjugation (Day I)
November 5	Conjugation (Day II)
November 10	Conjugation (Day III) Bacterial transformation – pGLO (handout)
November 12	Plaque Assay
November 17	Exam IV – No Lab
November 19	Microbes and Food/ Spice inhibitors (demo)
November 24	Antibiotic sensitivity, UV light
November 26	Online laboratory – Archae vs. Bacteria
December 1	Koch's principals – Yogurtness lab
December 3	Membrane filtration
December 8	Read results -TBA
December 10	ELISA testing (handout)
December 15	Drawer check-out & review
December 17	Final Exam: No Lab