

**Biology 2400 – General Microbiology
Tentative Laboratory Schedule
Tuesday & Thursday - S1601 & S1603**

Date	Experiment
August 28	Laboratory Introduction and check-in
September 2	Survey of Microorganisms
September 4	Micrometry
September 9	Negative stain
September 11	The Gram stain
September 16	The Endospore stain
September 18	The Acid fast stain
September 23	Exam II – No Lab
September 25	Bacteria in motion – hanging drop and motility agars: TTC & SIMS
September 30	Streak plate/ Oxygen and Bacterial Growth
October 2	Temperature and Bacterial growth / MPN
October 7	Differential, Selective and Enriched media / Fermentation of Sugars
October 9	Tests: H ₂ S, Indole, Citrate, Urease and Starch hydrolysis
October 14	Review tests and staining methods
October 16	Bacterial Unknown – set-up streak plate & staining
October 21	Set- up tests
October 23	Examine tests and identify unknowns
October 28	Exam III – No lab
October 30	Standard Plate Count and Sanicheck system
November 4	Conjugation (Day I)
November 6	Conjugation (Day II)
November 11	Conjugation (Day III) Bacterial transformation – pGLO (handout)
November 13	Plaque Assay
November 18	Exam IV – No Lab
November 20	Microbes and Food/ Spice inhibitors (demo)
November 25	Antibiotic sensitivity, UV light. Assign online laboratory – Archae vs. Bacteria
November 27	No Class – Thanksgiving Vacation
December 2	Koch's principals – Yogurtness lab
December 5	Membrane filtration
December 9	Read results -TBA
December 11	ELISA testing (handout)
December 16	Drawer check-out & review
December 18	Final Exam: No Lab