ANIMLSCI 390A 01: VETERINARY MICROBIOLOGY LABORATORY
SCHEDULE – SPRING SEMESTER 2015

Jan 26  1. Introduction to Veterinary Microbiology Laboratory
       Laboratory safety & Rules of the lab; Notebooks; Veterinary Practice & Research Laboratories
Feb 2   2. Microbiology Boot Camp I: Microscopy
       Observations of microbes; Cell Staining Techniques
Feb 9   3. Microbiology Boot Camp II
       Aseptic technique; Cell Stains; Culturing Microbes in the Lab
Feb 17  4. Microbial Isolation
       Single-colony Isolation & Chicken Product Testing
Feb 23  5. Microbes Associated with Animals: Salmonella, Staphylococcus & Streptococcus
       Sampling at the Hadley Farm
March 2  6. Diagnostic Microbiology I
       Enteric Bacteria, Salmonella & other Gastrointestinal Pathogens
March 9  7. Diagnostic Microbiology II
       Identification and Characterization of Salmonella
March 13 Team Lab Report I Due: Diagnostic Microbiology of Salmonella
       Notebook review I.
March 14-22 SPRING BREAK
March 23 8. Diagnostic Microbiology III
       Staphylococcus & Streptococcus Identification and Characterization
March 30 9. Antibiotic Resistant Microbes Associated with Animals
       Sampling at the Hadley Farm
April 6  10. Antibiotic Resistant Microbes Associated with Animals II
       Quantification of antibiotic resistance at the Hadley Farm
April 13 11. Antibiotic Resistant Microbes Associated with Animals III
       Quantification of antibiotic resistance at the Hadley Farm
April 17 Team Lab Report II Due: Antibiotic Resistance at the Hadley Farm
April 22 12. Microbial Enrichment, Fermentations & Animal Nutrition
       Lactic Acid Bacteria
April 27 13. Laboratory Practical Exam
       The Practical Exam provides an opportunity for you to demonstrate your ability to perform
       and understand experimental procedures learned during the laboratory course.
       Finish characterization of Lactic Acid Bacteria and complete notebook.
April 29 Notebook review II.
       Team/self evaluation.

Version 1.0, last edit 01/13/2015