ANIMLSCI 390A 02: VETERINARY MICROBIOLOGY LABORATORY
SCHEDULE – SPRING SEMESTER 2015

Jan 23 1. Introduction to Veterinary Microbiology Laboratory
   Laboratory safety & Rules of the lab; Notebooks; Veterinary Practice & Research Laboratories

Jan 30 2. Microbiology Boot Camp I: Microscopy
   Observations of microbes; Cell Staining Techniques

Feb 6 3. Microbiology Boot Camp II
   Aseptic technique; Cell Stains; Culturing Microbes in the Lab

Feb 13 4. Microbial Isolation
   Single-colony Isolation & Chicken Product Testing

Feb 20 5. Microbes Associated with Animals: Salmonella, Staphylococcus & Streptococcus
   Sampling at the Hadley Farm

Feb 27 6. Diagnostic Microbiology I
   Enteric Bacteria, Salmonella & other Gastrointestinal Pathogens

March 6 7. Diagnostic Microbiology II
   Identification and Characterization of Salmonella

March 10 Team Lab Report I Due: Diagnostic Microbiology of Salmonella
   Notebook review I.

March 13 8. Diagnostic Microbiology III
   Staphylococcus & Streptococcus Identification and Characterization

March 14-22 SPRING BREAK

March 27 9. Antibiotic Resistant Microbes Associated with Animals
   Sampling at the Hadley Farm

April 3 10. Antibiotic Resistant Microbes Associated with Animals II
   Quantification of antibiotic resistance at the Hadley Farm

April 10 11. Antibiotic Resistant Microbes Associated with Animals III
   Quantification of antibiotic resistance at the Hadley Farm

April 14 Team Lab Report II Due: Antibiotic Resistance at the Hadley Farm

April 17 12. Microbial Enrichment, Fermentations & Animal Nutrition
   Lactic Acid Bacteria

April 24 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 27 Notebook review II.
   Team/self evaluation.

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