Basic Veterinary Immunology and Principles of Vaccination
Checklist/Syllabus

☐ Lecture 1. Overview: Principles of Immunology and Vaccination (25 min)

☐ Lecture 2. Overview: Cells of the Immune System (27 min)

Native Immunity and Inflammation (2 hours 22 min)
☐ Lecture 3. Neutrophils (39 min)
☐ Lecture 4. Eosinophils (9 min)
☐ Lecture 5. Complement System (36 min)
☐ Lecture 6. Macrophages (16 min)
☐ Lecture 7. Sentinel Cells and Proinflammatory Cytokines (28 min)
☐ Lecture 8. Macrophage Activation (14 min)

Acquired Immunity (4 hours 48 min)
☐ Lecture 9. Antigens and Antibodies (60 min)
☐ Lecture 10. Major Histocompatibility Complex and Antigen Presentation (15 min)
☐ Lecture 11. Antigen Processing and Presentation on MHC Molecules (31 min)
☐ Lecture 12. Lymphocyte I - Identifying Types (14 min)
☐ Lecture 13. Lymphocyte II - Clonal Selection and Response (34 min)
☐ Lecture 14. Lymphocyte III - Understanding T Helper Cells (33 min)
☐ Lecture 15. Antigen Trapping and Presentation by Dendritic Cells (9 min)
☐ Lecture 16. Antigen Presenting Cell, T cell, B cell Interactions and Responses (27 min)
☐ Lecture 17. Lymphocyte Circulation (25 min)
☐ Lecture 18. Thymus Gland and T cell Education (16 min)
☐ Lecture 19. Generation of Antigen Receptors (24 min)

Immune Effector Mechanisms (3 hours 24 min)
☐ Lecture 20. Cytokines (41 min)
☐ Lecture 21. Cytotoxic T cells and NK cells (20 min)
☐ Lecture 22. Immunity at Body Surfaces (38 min)
☐ Lecture 23. Fetal and Neonatal Immunity (39 min)
☐ Lecture 24. Hypersensitivity Reactions: Type I and II (34 min)
☐ Lecture 25. Hypersensitivity Reactions: Type III and IV (32 min)

☐ Lecture 26. Methods of Analysis of Cell-Mediated Immunity (56 min)

☐ Lecture 27. Comparative Immunology (30 min)

Principles of Vaccinology (4 hours 38 min)
☐ Lecture 28. I Regulation and Use of Vaccines (55 min)
☐ Lecture 29. II. Basis for Protective Immunity (32 min)
☐ Lecture 30. III Properties of Vaccine Type (38 min)
☐ Lecture 31. IV Vaccine Failure and Duration of Immunity (42 min)
☐ Lecture 32. V Maternal Antibody and Vaccination (43 min)
☐ Lecture 33. VI Adverse Vaccine Reactions (46 min)
☐ Lecture 34. VII Multifactorial Diseases, Herd Immunity, Revaccination Decisions (22 min)