

- Dr. J. Mitchell Loll eh7i2W003 t 2.62 0 Td( )Ta-2(rs)-8 Td(l)-8.7 (17JC /TTO 1 Tf-0.004 Tc 0.003 Tw 12.(n2  
online at [http://www.nwhc.usgs.gov/publications/field\\_manual/](http://www.nwhc.usgs.gov/publications/field_manual/)

\_\_\_\_\_). Various other readings will be provided.

Other resources:

Journal of Wildlife Diseases – [www.jwildlifedis.org/archive/](http://www.jwildlifedis.org/archive/)

Wildlife Disease Information Node – <http://wildlifedisease.nbi.gov/>

Manual of Common Diseases and Parasites of Wildlife in Northern British Columbia

[http://www.unbc.ca/nlui/wildlife\\_diseases\\_bc/](http://www.unbc.ca/nlui/wildlife_diseases_bc/)

: This course will provide an introduction to the field of wildlife disease biology. Topics examined will include specific avian, mammalian, fish, reptile, and amphibian diseases as well as methods to survey for, ( fo)-6.L76.6 (n)i r2.iiz2.37avns\_bc/

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|----------------------|---------|
| Assignments          | 100-200 |
| Exam 1 (February 19) | 100     |
| Exam 2 (March 28)    | 100     |
| Exam 3 (May 2)       | 100     |

Comprehensive Final Exam 200

For the lecture grade, three exams (tentative) plus a comprehensive final will be given. Questions will be based on material covered in lecture, in my notes, and from assigned readings

## Introduction

Disease transmission in natural populations

Field techniques for investigation of wildlife diseases

Diagnostic and Laboratory techniques for investigation of wildlife diseases

Working with zoonotic disease/biosafety considerations

Permits and paperwork for wildlife disease investigations

Working with stakeholders

Foreign Animal Diseases

Specific Disease Lists

### Avian

Cholera, Tuberculosis, Salmonellosis, Chlamydiosis, Mycoplasmosis, Miscellaneous Bacterial Diseases, Aspergillosis, Candidiasis, Miscellaneous Fungal Diseases, Duck Plague, Inclusion Body Disease of Cranes, Miscellaneous Herpesviruses of Birds, Avian Pox, EEE, Newcastle Disease, Avian Influenza, Woodcock Reovirus, Hemosporidiosis, Trichomoniasis, Intestinal and Renal Coccidiosis, Sarcocystis, Eustrongylidosis, Tracheal Worms, Heartworm, Gizzard Worm, Acanthocephaliasis, Nasal Leeches, Miscellaneous Parasitic Diseases, Algal Toxins, Mycotoxins, Avian Botulism, Organophosphorus and Carbamate Pesticides, Chlorinated Hydrocarbons, PCBs, Oil, Lead, Selenium, Mercury, Cyanide, Salt, Barbiturates, Miscellaneous Chemical Toxins, Electrocutation

### Mammalian

#### Deer

Hemorrhagic Disease, Cutaneous Fibroma, Miscellaneous Viral Diseases, Anthrax, Dermatophilosis, Brain Abscess, Miscellaneous Bacterial and Rickettsial Diseases, Toxoplasmosis, Liver Fluke, Lungworm, Stomach Worm, Meningeal Worm, Arterial Worm, Abdominal Worm (*Setaria*), Tapeworm, Ecto's – Ticks, Louse Flies, Lice, Ear Mite, Demodectic Mange, Piebald Anomaly, Capture Myopathy

#### Elk

Infectious Diseases, Parasitic Diseases

#### Feral Swine

Pseudorabies, Vesicular Stomatitis Virus, Swine Brucellosis, Tuberculosis, Lungworms, Kidney Worm, Liver Flukes, Acanthocephalans, Ascarids, Trichinosis, Hog Lice

#### Black Bear

Rabies, Canine Distemper Virus, Trichinosis, Canine Heartworm, *Spirometra*, Ascarids, Demodectic Mange

#### Raccoon

Rabies, CDV, Parvovirus, Tularemia, Leptospirosis, *Trypanosoma*, *Spirometra*, *Baylisascaris*, *Dracunculus*, Stomach Worms, Acanthocephala

#### Striped Skunk

Rabies, Canine Distemper Virus, Leptospirosis, Ascarids

Red Fox  
Rabies, Canine Distemper Virus, Leptospirosis, *Echinococcus*, Canine Heartworm, Subcutaneous Worm, Sarcoptic mange

Gray Fox  
Canine Distemper Virus, Rabies, Leptospirosis, Heartworm

Coyote  
CDV, Parvovirus, Rabies, Brucellosis, *Echinococcus*, Heartworm

Bobcat  
Feline Panleukopenia, Rabies, Toxoplasmosis, Cytauxzoonosis, *Spirometra*

Opossum  
Rabies, Leptospirosis, Sarcocystis, Besnoitia, Stomach Worm

Mink  
Mink Virus Enteritis, Dioctophyme

River Otter  
CDV, Salmonellosis, Subcutaneous worm

Muskrat  
Tularemia, Tyzzer's Disease

Beaver  
Tularemia, *Giardia*

Cottontail Rabbit  
Shope's Fibroma, Tularemia, Staphylococcosis, Tapeworm, Ascarid, Warbles

Gray Squirrel  
Squirrel Fibroma, Warbles, Miscellaneous Skin Conditions - Congenital Alopecia, Dermatophytoses, Notedric Mange, Louse

Woodchuck  
Woodchuck Hepatitis, Rabies, Ascarids

Armadillo  
Leprosy

Others  
Chronic Wasting Disease, Cervid Adenovirus Infection, Malignant Catarrhal Fever, Brucellosis, Bovine Tuberculosis, Johne's Disease, Anaplasmosis, Elaphostrongylosis

