

Day One

Introduction (10 min)

- Introduction of speakers, and explanation of course materials and format

Introduction to Wildlife Medicine, Regulations, Ethics & Euthanasia (1hr)

- What is wildlife medicine?
- Different branches of wildlife medicine
- Wildlife Rehabilitation Medicine
 - What it is; Who does it / working with rehabilitators; Professional Organizations; Ethics; Legalities; Triage overview; Release considerations

Approach to wildlife patient (1hr)

- Stress; Restraint; Triage; Physical examination; Anesthesia (brief)

Critical care, bandaging, fluid therapy, wound management (brief overview of each) (1hr)

Lunch...

Wet lab (3 hr)

- Assorted mammal & avian carcasses
- Students work individually or in pairs
 - Species identification
 - Physical examination & Anatomy
 - Fluid therapy/injection sites
 - SQ, IM & IV injections; SQ, IV, IO, IC, and PO fluid administration
 - Bandaging / Fracture immobilization
 - Wing wraps, leg splints, thermoplastics; Species considerations
 - Anatomy/necropsy
 - Necropsy procedures; Organ identification; Description of lesions
 - Identification of parasites found; Comparative anatomy

Day Two

Captive management (1/2hr)

- Stress
- Nutrition
 - Temporary vs. long-term; Dealing with emaciation; Refeeding syndrome
 - Approximating natural diets in the wild; Vitamin supplementation
- Housing

- Emphasis on temporary housing, i.e., what is appropriate for an animal when it is 1st brought to a veterinarian, and also considerations for animals in rehabilitation. Conditioning prior to release.

Orphan care **(1/2 hr)** –

- Returning/reuniting/fostering young to the wild
- Identifying infants truly in need of care
- Temporary care (fluids, heat, diet, etc., until rehabilitator is located)
- Emphasis on mammals and birds

Diseases **(2½ hr)** – Turtles (30min); Birds (1 hr); Mammals (1 hr)

- Infectious (viral, bacterial, fungal, parasitic, prion)
- Zoonotic (emphasis on careful housing and hygiene)
- Toxins (heavy metals, pesticides, botulism, environmental; dealing with a large-scale toxic event or individual animals)
- Common injuries

Lunch...

Case studies (what to do if...) **(1hr)**

- Common problems and diagnostics
- Interactive to get students thinking: history provided and students generate differentials, diagnoses, and treatment options

Lab **(2 hr)** Solving the Mysteries!

This activity consists of stations, each of which contains a case history and a “clue.” Working individually or in groups, the students use the information provided in the history, together with the physical article (a radiograph, a preserved sample in a jar, a specimen under a microscope, an animal artifact, a photo, etc.) to answer a series of questions. Some questions may address diagnostic steps, others may address treatment options, while others may address disease pathophysiology or transmission. The workshop ends with a short review and discussion of each case. The information provides the students with a course of action to treat and rehabilitate the animal (bird, mammal, or herp) mentioned in each case.