

Zoological Medicine – CLIN 6960

Section 01: Birds

Course Syllabus

Contact:

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General Course Description:

The course is designed to prepare graduate students in an ACZM (American College of Zoological Medicine) compliant residency program for the certifying examination of the ACZM. It will be based on the ACZM reading list (aczm.org), but also on additional materials that are required to obtain a more complete understanding of the discipline (such as anatomy, physiology, pathophysiology of diseases...). The ACZM day 1 examination is divided into 5 parts: birds, reptiles, aquatic medicine, wildlife medicine, and terrestrial mammals. The course will focus on one of these sub-specialties per semester. Students will read assigned literature-based materials and discussion will take place during schedule times. The discussion on the assigned readings will also focus on critical appraisal of the literature and to extract from the scientific literature what is 1) the most clinically relevant and 2) what is likely important for the ACZM examination. As zoological medicine is a broad field encompassing animal health and ecosystem health but also captive and free-ranging animals, an emphasis, through reading the published scientific literature, will be given to general concepts to promote a global understanding of the field such as epidemiology, evolutionary aspects of anatomy, physiology, and disease susceptibility, comparative medical approaches between various animal taxa, and the impact of climate and ecosystem changes to disease dynamics. A mock examination will be provided on an ACZM sub-specialty as per ACZM recommendations for ACZM compliant residencies.

Schedule and Outline:

The course will have about 23 sessions of 1h30 each. Sessions will be on Tuesdays and Thursdays at 12pm-1:30 pm. Location TBA

The outline for the sessions is as below:

1. Background information (5 sessions)
 1. Avian diversity, taxonomy, and clinically relevant taxon specific characteristics - 3 sessions
 2. Anatomy and physiology - 2 sessions
2. Anesthesia and analgesia - 2 sessions
3. Diagnostic methods - 2 sessions
4. Birds in captivity - 9 sessions
 1. Important infectious diseases of captive birds - 2 sessions

2. Important non-infectious diseases of captive birds - 1 session
3. Internal medicine topics - 3 sessions
4. Species-specific considerations and diseases – 3 sessions
5. Birds in the wild - 5 sessions
 1. Conservation and threats to wild birds - 2 sessions
 2. Viral diseases of wild birds - 1 session
 3. Bacterial diseases of wild birds - 1 session
 4. Toxicosis of wild birds - 1 session

Schedule is as follow:

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Sep 2017	3	4 Labour Day	5	6	7 Session 01	8	9
	10	11	12 Session 02	13	14 Session 03	15	16
	17	18 Session 04	19 No Class	20	21 No Class	22	23
	24	25	26 Session 05	27	28 Session 06	29	30
Oct 2017	1	2	3 Session 07	4	5 Session 08	6	7
	8	9 Thanksgiving	10 Session 09	11	12 Session 10	13	14
	15	16	17 Session 11	18 Session 12	19 Session 13	20	21
	22	23	24 Session 14	25	26 Session 15	27	28
	29	30	31 Halloween Session 16	1	2 MID-TERM	3	4
Nov 2017	5	6	7 Session 17	8	9 Session 18	10	11 Remembrance Day
	12	13	14 Session 19	15	16 Session 20	17	18
	19	20	21 Session 21	22	23 Session 22	24	25
	26	27	28 Session 23	29	30 Session 24	1	2
Dec 2017	3	4	5	6	7	8	9
	10	11	12 FINAL EXAMINATION	13	14	15	16
	17	18	19	20	21	22	23
	24	25 Christmas	26 Boxing Day	27	28	29	30
	31	1 New Year's Day	2	3	4	5	6

Organization and Preparation

-The course is based on the ACZM reading list, but only a portion of the avian-related literature will be used here. Students are encouraged to read other relevant materials on that list prior to topic discussions. Other important materials may be used from outside of the reading list to complement a specific topic not well covered in the ACZM reading list.

-All the necessary resources for each session are available on courselink. Some book chapters are already highlighted. While you may read the entire chapter, reading only the highlighted portions is enough.

-The different sessions will be evenly divided among graduate students. Each student will write notes or give a powerpoint presentation on the highlight of the provided scientific literature on a specific topic (as given on courselink) with a specific emphasis on books and essential articles (please select most relevant and important articles). Students may prepare 2-5 MCQ to give in the last 15 min of the presentation.

-Some avian diseases or concepts won't be covered because they are not well represented in the ACZM reading list (don't have a specific book chapter) or because of time limitation in the course.

Examination

-Two mock examinations will be given (midterm and final) that will consist of MCQ based on the reviewed scientific literature, which includes all the reviewed book chapters and all the scientific abstracts.