

# Zoological Medicine – CLIN 6960

## Reptiles and Amphibians

### 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](http://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 1h-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. Part I: Background information: anatomy, physiology, husbandry (4 sessions)
  1. Anatomy (3 sessions)
  2. Husbandry (1 session)
2. Part II: Clinical techniques (4 sessions)
  1. Anesthesia and analgesia (2 sessions)
  2. Clinical pathology and diagnostic imaging (1 session)
  3. Surgery and therapeutics (1 session)
3. Part III: Selected infectious diseases (5 sessions)
  1. Bacterial (2 sessions)

2. Fungal (1 session)
3. Viral (2 sessions)
4. Parasites (1 session)
4. Part IV: General topics (5 sessions)
  1. Internal medicine (3 sessions)
  2. Special species (2 sessions)
5. Part V: Amphibians (5 sessions)
  1. Anatomy and husbandry (1 session)
  2. Chytridiomycosis (1 session)
  3. Infectious diseases (1 session)
  4. General topics (1 session)
  5. Special species (1 session)

Schedule is as follow:

Month	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Jan 2018	1	2	3	4	5	6	7
	8	9 Session 1	10 Session 2	11	12	13	14
	15	16 Session 3	17	18 Session 4	19	20	21
	22	23 Session 5	24	25 Session 6	26	27	28
	29	30 Session 7	31 Session 8	1	2	3	4
Feb 2018	5	6 Session 9	7	8 Session 10	9	10	11
	12	13 Session 11	14	15 Session 12	16	17	18
	19	20	21	22	23	24	25
	26	27 MIDTERM	28	1 Session 13	2	3	4
Mar 2018	5	6 Session 14	7	8 Session 15	9	10	11
	12	13 Session 16	14	15 Session 17	16	17	18
	19	20 Session 18	21	22 Session 19	23	24	25
	26	27 Session 20	28	29 Session 21	30	31	1
Apr 2018	2	3 Session 22	4	5 Session 23	6	7	8
	9	10	11	12	13	14	15
	16	17 FINAL	18	19	20	21	22

### **Organization and Preparation**

-The course is based on the ACZM reading list, but only a portion of the herptile-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 herptile 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.