

Instructor:

Dr. Ryan Shartau, HPR 108, Email – rshartau@uttyler.edu

Meeting time: Monday 10:10-11:05 am

Office Hours: M 1-4 pm, or by appointment.

Course Description: Comparative animal physiology

Course Objectives/Student Learning Outcomes: Critically read and discuss topics in animal physiology.

Texts: Fish Physiology – Volumes 1-39. These will be provided for students to choose topics.

Fish make up about half of all vertebrates, consequently there is a tremendous diversity of species. Insights from fish physiology can be easily applied to other research areas. For this seminar, students will select a chapter from the long-running Fish Physiology series (first published in 1969) that covers nearly every topic related to the physiology of fishes, ranging from cellular biology to conservation and aquaculture. Students will select a chapter of their choice to present and lead a discussion with the class. While the chapters are focused on fish physiology, students are welcome to incorporate comparative examples with other animals (e.g., mammals, reptiles, invertebrates) of physiological concepts discussed in the chapter when leading the discussion.

Seminar schedule

Week	Topic	Topic
1	Jan 13	Introduction
2	Jan 22	No seminar (MLK day)
3	Jan 27	Instructor led discussion
4	Feb 3	Student led discussion
5	Feb 10	Student led discussion
6	Feb 17	Student led discussion
7	Feb 24	Student led discussion
8	Mar 3	Student led discussion
9	Mar 10	Student led discussion
10	Mar 13	No seminar (Spring break)
11	Mar 24	Student led discussion
12	Mar 31	Student led discussion
13	Apr 7	Student led discussion
14	Apr 14	Student led discussion
15	Apr 21	Final discussion

Evaluation: Students will be evaluated based on participation which will count for 100% of the grade. If you will be absent from class, please let me know in advance. You will be required to lead discussions over the semester.

The following scale will be used for grading:

90-100% = A, 80-89% = B, 70-79 = C, 60-69% = D, 0-59% = F

Academic Misconduct: Submitting plagiarized work to meet academic requirements including the representation of another's work or ideas as one's own; the unacknowledged word for word use of another person's ideas; and/or the falsification, fabrication, or dishonesty in reporting research results shall be grounds for charges of academic misconduct. Any cheating or other type of academic misconduct will be reported to university administration and at minimum will result in automatic failure of the course. Cell phone use during exams is strictly forbidden.