



BIOLOGY 345 (10373)

ANIMAL BEHAVIOUR (Sept 2018)

Instructor: Dr. T. E. Reimchen, Cunn 056

Ph 721-7101 reimchen@uvic.ca

Lectures: Mon, Thurs 1130-1250, Elliott 167

Lab. Coordinator: Therese Frauendorf

tfrauend@uvic.ca

Labs: Petch 110



General outline of lecture topics

Historical study of animal behaviour

Behavioural lateralization – left vs right biases in animal behaviour

Nervous systems among animal phyla: anatomy, receptors, neurotransmitters (Dr RM Marx)

Parsing behaviour: genetic, epigenetic, hormonal, environmental, ecoevolutionary

Animal communication, sensory modes and sensory exploitation

Defenses against predators

Optimal foraging, zoopharmacognosy

Habitat choice and territoriality –where and why?

Evolution of sex and mate choice –who and why?

Monogamy/polygyny/polyandry – how often and why?

Parental tactics, brood parasitism, relative investment, infanticide

Self-awareness, consciousness, empathy, animal rights

Sociality, altruism, aggression, conflict and warfare

Evolution of play

Overview: continuity of process

Lecture: Midterm (Oct 18) (multi-choice) 20%

Final (TBA) (multi-choice and essay) 35%

All slides shown in lecture will be available on CourseSpaces within 6 hours after the lecture

All multiple-choice questions for lecture exams are based on lecture material

Sample multiple choice questions will be given in the lectures each week.

I do not answer questions concerning lecture content on email. Ask me directly. On average, I will be in my office (Cunn 056) Monday and Thursday (1400-1600) or Tuesday and Wednesday (0900-1200, 1400-1600hrs).

- **Laboratory**
- Hands-on analyses of simple and complex behaviours across a diversity of taxonomic groups including protists, jellies, sea anemones, flatworms, bivalves, nudibranchs, crabs, crickets, crayfish, sea cucumbers, urchins, and fighting fish. Students will undertake a field project with an option of studying either crows, ducks, gulls, squirrels or dogs. There will be an optional field trip to Goldstream Park to observe the chum salmon spawning migration



Lab manual ~\$15

Distribution of Marks

Lab Exercises and Pop Quizzes	6%
Tutorials (3@3%)	9%
Lab exam	10%
Project	20%
Phase 1 Results	1%
Phase 2 Results	4%
Proposal for Phase 3	1%
Final Presentation	4%
Report	10%
Total	<hr/> 45%

Week of	Topic	Assignment due
Sep. 10	Introductory Lab	
Sep. 17	From Taxis to Shadow Reflex	vV; Phase 1 project results
Sep. 24	Learning Experiments Part 1	vV; Tutorial 1
Oct. 01	Learning Experiments Part 2	vV;
Oct. 08	Thanksgiving – No labs	Oct. 9: proposal for Phase 3 Oct. 14: Phase 2 project results;
Oct. 15	Predator - Prey Interactions	v; Tutorial 2
Oct. 22	Agonistic Behaviour in Crayfish	v
Oct. 29	Workshop	v; Tutorial 3
Nov. 05	Interactions in Siamese Fighting Fish	v; Nov. 11: Final Project Report
Nov. 12	Reading Break – No labs	
Nov. 19	Lab exam	
Nov. 26	Project Presentations	
TBA	Optional Field Trip: Goldstream Park for Salmon Migration	

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Sept 18: Last day for 100% reduction of tuition fees for standard first term and full year courses. 50% of tuition fees will be assessed for courses dropped after this date

Sept 21: Last day for adding courses that begin in the first term

Sept 30: Last day for paying first term fees without penalty

Oct 09: Last day for 50% reduction of tuition fees. 100% of tuition fees will be assessed for courses dropped after this date

Oct 18: Lecture mid-term exam

Oct 31: Last day for withdrawing from first term courses without penalty of failure

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