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BIOLOGY 345 (10363)

ANIMAL BEHAVIOUR (Sept 2019)

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

Ph 721-7101

Lectures: Mon, Thurs 1130-1250, ECS 116

Lab. Coordinator: Dr. Rossi M. Marx

rmmarx@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

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

Aggression, conflict, warfare, cooperation, sociality, altruism,

Evolution of play

Overview: continuity of process

Lecture: Midterm (Oct 17) (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. In general, 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.

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		45%

Biol345 Lab Schedule Fall 2019

Week of	Topic	*Assignment due*
Sep. 09	Introductory Lab	
Sep. 16	From Taxis to Shadow Reflex	√√; *Phase 1 project results*
Sep. 23	Learning Experiments Part 1	√√; *Tutorial 1*
Sep. 30	Learning Experiments Part 2	√√; *Proposal for Phase 3;* ***Oct. 05:*** *Phase 2 project results*
Oct. 07	Predator - Prey Interactions	√; ***Oct. 12:*** *Tutorial 2*
Oct. 14	Thanksgiving – No labs	
Oct. 21	Agonistic Behaviour in Crayfish	√; ***Oct. 26:*** *Phase 3 interim results*
Oct. 28	Workshop	√; *Tutorial 3*
Nov. 04	Interactions in Siamese Fighting Fish	√; ***Nov. 10:*** *Final Project Report; final Phase 3 results*
Nov. 11	Reading Break – No labs	
Nov. 18	Lab exam	
Nov. 25	Project Presentations	
Dec. 02	Open Lab: talk to TAs about lab exam and report results	
TBA	Optional Field Trip: Goldstream Park for Salmon Migration	

Sept 17: 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 20: Last day for adding courses that begin in the first term

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

Oct 08: Last day for 50% reduction of tuition fees. 100% of tuition fees will be assessed for courses dropped after this date

Oct 17: Lecture mid-term exam

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

Dec 02: Last lecture in Biol345

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