

**Outline for Animal Behaviour and Evolution – PNB 2XC3.**

**Sept, 2017**

**I will post an updated outline when relevant throughout the semester.**

**Instructor:** Dr. Reuven Dukas (e-mail: [pnb2xc3@gmail.com](mailto:pnb2xc3@gmail.com)).

**Teaching Assistants:** Carling Baxter, Nick Brown, Brett Culbert, Hossein Mehdi, Andrew Scott, Roberto Valdizon

**Course email:** ([pnb2xc3@gmail.com](mailto:pnb2xc3@gmail.com)): Monitored daily M-F.

**In-person office hours with TA's:** M 12:30-1:30 PM in PC 311, F 1:30-2:30 PM in PC 316

**Office hours with Dr. Dukas:** By appointment via the course email.

**Please note that you are not allowed to photograph, video-record or audiotape my lectures, slides, quizzes and exams.**

The course Avenue site has partial lecture notes and supplementary material. You are responsible for all the material covered in the lectures. To succeed in the course, you should attend the lectures and take all quizzes and midterms.

**Objectives.** By the end of this course the students will be able to answer the following questions:

1. Why is animal behaviour research important? What are its main uses?
2. What are the two mechanisms that can change behaviour over time?
3. What are the genetic and physiological mechanisms that control and generate behaviour?
4. How do you apply scientific thinking for analysing novel problems in animal behaviour?
5. What are the major components of behaviour, which are shared by most animals?
6. How do you explain human behaviour based on concepts studied in the course?
7. How do you interpret graphs and draw graphs from data?

**Tentative schedule and topics (please refer to Avenue for updates):**

Week	Topic	Book chapter	Quiz / Test
1	Introduction: Why learn about animal behaviour?		
2	Critical & scientific thinking; life history	3	Quiz 1
3	Principles of animal behaviour	1	Quiz 2
4	Evolution	2	Midterm 1 (weeks 1-3) Oct. 2
5	Evolution and learning	4	Quiz 3
6	Learning	5	Quiz 4
7	Learning	5	Quiz 5
8	Social learning	6	Midterm 2 (weeks 1-7) Nov. 6
9	Social learning, foraging	11	Quiz 6
10	Foraging; antipredatory behaviour	12	Quiz 7
11	Sex & fighting	7	Quiz 8
12	Sex & fighting <b>Topic Chosen by the Students</b>	15 (excluding 489-96)	Quiz 9

**Textbook:** Dugatkin, L. A. 2013. *Principles of Animal Behavior*, 3<sup>rd</sup> ed. Norton, New York.  
The chapters in the table below are required. Please note that you may purchase an ebook from the publisher at [www.nortonebooks.com](http://www.nortonebooks.com).

**iClicker:** You are required to bring your iClicker to every lecture. Before the second class (Sept. 19), you must register your iClicker at: <http://www.iclicker.com/support/registeryourclicker/>. **Please note that you must register your iClicker at the start of each semester!** Your student ID is your MacID, which is typically the first part of your e-mail address. Failure to bring your personal iClicker to lectures with evaluations, or failure to register your iClicker will result in a zero being assigned to the relevant evaluation. Using somebody else's iClicker is an academic dishonesty, which will result in a grade of F for the course and a formal complaint to the Office of Academic Integrity.

**Grade calculation:** Weekly quizzes (10% based on the best 7 quizzes), Midterm 1 (10%), Midterm 2 (20%) Final (60%). Plus optional extra credit questions in the two midterms (3%; I will provide further information in the lecture and on Avenue).

**Quizzes and midterms:** The weekly quiz will have questions from the previous week's lectures and material from the chapter required for the current week. I will post the chapter number required for the quiz on avenue each week. The material in the exams is cumulative as indicated in the schedule above, but with a larger weight for the recent material. The midterm will last 50 min and lecture will start at 8 PM.

**Missed quizzes and midterms:** You should avoid missing quizzes and exams because this typically results in a lower course mark. Students who miss more than two quizzes should email Dr. Dukas. Students who miss a midterm should either fill an MSAF or visit their faculty office. There will not be makeup quizzes and midterms.

**Academic dishonesty:** Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty. For information on the various kinds of academic dishonesty please refer to the Academic Integrity Policy, specifically Appendix 3, under the Senate Policy Statements in the online calendar.

**General university rules:** Please read and adhere to the *General Academic Regulations* and *Senate Policy Statements* in the online calendar.