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Background
This is a senior, high-level course that will demand regular attendance and active student participation. Students should be in a senior year of an Honours program with a solid background in Biology, Psychology, and Neuroscience.

Course Objectives
We will examine hormonal and neurochemical processes that interact with behaviour in vertebrates, with especial focus on mammalian processes that shed light on human psychology.

Textbook and Readings
Assigned readings from this textbook are given on the next page. Additional material will be made available on-line.

Evaluation
1) Midterm Test #1: This is worth 25% of the final grade, and will be held in the normal class hour on February 10th. It covers all readings and lectures prior to that date.

2) Essay & Presentation: Each student should prepare an essay, on a unique specialized topic, structured and pre-approved as described in a separate handout. Each student is expected to make a brief oral presentation during one of the tutorials on their topic and to submit a full written essay. This component is worth 35% of the final grade, with 10% for the oral presentation and 25% for the written paper. The deadline for the written essay is March 23rd, but it may be submitted at any time before that date.

3) Class and Tutorial Participation: Students are encouraged to participate actively in classes and especially in tutorials. Attendance at tutorials will be recorded. The tutorial leader's (and instructor's) appraisal of individual participation (including attendance) will comprise 10% of the final grade.

4) Final Examination: This will be scheduled by the Registrar’s Office, and is worth 30% of the final grade. This will cover the whole course, with some extra emphasis on material since the midterm test.
Evaluation (continued)

The midterm test can only be written at the time indicated, so plan to attend. Normally, there can be no make-up tests or special sessions for any student. Absence from the midterm must be reported to your Faculty/Program office (e.g. Science or Social Science) with documentation, and relief may not necessarily be granted. If you are absent from the university for a medical or personal reason lasting fewer than 3 days, you may report your absence, once per term, without documentation, using the McMaster Student Absence Form (MSAF), for components worth less than 25%. When using the MSAF, report your absence to decatanz@mcmaster.ca. With approval from the Faculty/Program office or an appropriate MSAF, you may be granted relief for the missing course evaluation component. If the oral presentation is missed, it will be re-scheduled insofar as possible. The essay must be submitted for any credit to be received. Essay deadline extensions will not be granted unless there are legitimate reasons validated by the Dean of Studies office; otherwise, a penalty for lateness will be applied at the instructor's discretion. If the midterm test or any other component is entirely missed for legitimate reasons, the value of that test/component will be added to the weight of the final examination.

The test and examination will consist of questions in diverse formats, including true-false, multiple choice, short answer, and essay questions, at the instructor's discretion. Grades will be assigned according to the following convention:
90-100% = A+, 85-89% = A, 80-84% = A-, 77-79% = B+, 73-76% = B, 70-72% = B-, 67-69% = C+, 63-66% = C, 60-62% = C-, 57-59% = D+, 53-56% = D, 50-52% = D-, 0-49% = F. Appeal procedures for test and essay grading are strictly structured, and must be in writing by a specified deadline, as will be explained.

The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.

Attention is drawn to the Statement on Academic Ethics and the Senate Resolutions on 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 a test or 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 (http://www.mcmaster.ca/academicintegrity/students/index.html).

Schedule of Lecture Topics and Readings  (Lecture dates are approximate)

Friday classes from January 29th through April 1st will be tutorial sessions involving student presentations and discussion. The class will be divided into two tutorial groups. Topics will be arranged in mid-January.


February 1 - 3: Sex differences and sexual differentiation. Chapters 3, 4

February 8: Male reproductive behaviour. Chapter 5

February 10: MIDTERM TEST (Held in class)

February 22: Female reproductive behaviour. Chapter 6

February 24: Pheromones

February 29 - March 2: Parental behaviour. Chapter 7

March 7 - 14: Affiliative and aggressive behaviour. Chapter 8

March 16 - 21: Homeostasis, biological rhythms, and stress. Chapters 9, 10, 11

March 23: ESSAY DEADLINE

March 23 - 30: Hormones, learning, and memory. Chapter 12

April 4 - 8: Neurochemistry and mood. Psychonutrition. Chapter 13

FINAL EXAMINATION SCHEDULED BY THE REGISTRAR