

**Hormones and Behaviour – PSYC342**  
Winter Session 2013

TIME & PLACE: January 7<sup>th</sup> to April 16<sup>th</sup>, 2013  
Tuesdays and Thursdays, 14h35 – 15h55  
MCMED 522

INSTRUCTOR: Jens Pruessner, Associate Professor, Departments of Psychology,  
Psychiatry, and Neurology and Neurosurgery, McGill University

OFFICE: **McGill Centre for Studies in Aging, 6825 LaSalle Blvd, Verdun, QC**  
Tel. 514 761 6131 x6309

OFFICE HOURS: By appointment

EMAIL: jens.pruessner@mcgill.ca

TEACHING ASSISTANTS: Jeremy Landry ([jeremy.landry@mail.mcgill.ca](mailto:jeremy.landry@mail.mcgill.ca))  
Nida Ali ([nida.ali@mail.mcgill.ca](mailto:nida.ali@mail.mcgill.ca))

COURSE GOAL: To familiarize students with the basic concepts and theories in major areas of hormones and behavior, and to stimulate interest and further study in Behavioral Neuroendocrinology.

OBJECTIVES: By the end of the course, the student should be able to:

1. Have a clear understanding of what defines Behavioral Neuroendocrinology as a Science, and what it can (and can't) do;
2. Explain the role of hormones in mediating perception and behavior;
3. Understand the functions of the different kinds of hormones;
4. Describe the endocrine system in humans;
5. Understand the impact of development on endocrine regulation (and vice versa);
6. Describe reproductive and sexual behaviors in the context of hormonal regulation;
7. Explain how hormones interact within a greater social and cultural context to determine behavior.

INSTRUCTIONAL METHOD: One hour and twenty minutes of in-class lecture to cover selected reading material. Classes will include assignments and activities to supplement the lectures and text. The average student will likely require 2 1/2 hours of reading/study time at home per week (75 minutes per lecture) to obtain an average grade.

TEXTBOOK: Course Pack available at the McGill bookstore

EVALUATION: Grading will consist of one assignment in the form of a group project and two exams (midterm and final exam). All exams will be closed-book and will cover reading material and information presented during lectures or in audiovisuals. Exams will include multiple choice **and** essay questions. Students may write answers to exam items in French, if desired. There will be **no possibility** for extra-credit work. The final exam can cover all material. Should a student miss the midterm due to medical reasons, the final exam will account for a higher portion of the final grade.

Grading: Assignment 20%, Midterm 30%, Final Exam 50%

## Course schedule PSYC342 Winter 2013

### Section 1: Basics and Introduction

January 8: Academia and Hormones & Behavior	*CP 1.1
January 10: Methods in Research and Academia	CP 1.2
January 15: Overview of the central nervous system	CP 1.3
January 17: Overview of the endocrine system	CP 1.4
January 22: Systems' actions, interactions, and regulations	**CP 1.5
January 24: Methods in Hormones and Behavior	CP 1.6
January 29: (Ab)normal sexual development	***CP 1.7
January 31: Movie: XXY	

### Section 2: Major themes in H&B

February 5: Gender identity and roles	CP 2.1
February 7: Male and female sexual behavior	CP 2.2
February 12: The stress system	CP 2.3
February 14: Gender and sex differences in stress regulation	CP 2.4
February 19: Neuroimaging of stress	****CP 2.5
February 21: Female menstrual cycle	CP 2.6
Week of February 25: Midterm (exact time and location tbd)	
February 28: Movie 2: The disappearing male	

### Section 3: Hot topics in H&B

March 5: Reading week	
March 7: Reading week	-
March 12: Hormones, Eating and Eating Disorders	CP 3.1
March 14: Menopause and Hormone Replacement Therapy	CP 3.2
March 19: Chronobiology	CP 3.3
March 21: Hormones and memory	CP 3.4
March 26: Hormones and attachment	CP 3.5
March 28: Hormones and attachment II	CP 3.6
April 2: Pheromones	CP 3.7
April 4: Sleep, glucose regulation and appetite	CP 3.8

### Section 4: PSYC342 conference sessions

April 9: Conference session 1	CP 4.1
April 11: Conference session 2	CP 4.2
April 16: Famous last words	
April 17-30: Final exam	

\* Students should do the required course pack reading before class.

\*\*January 22 - Last day to change (add or drop) with refund.

\*\*\*January 29 - Last day to withdraw from class with a 'W' mark with refund

\*\*\*\*February 19 - Last day to withdraw from class with a 'W' mark without refund

*All McGill course outlines must include, by request of the Senate (January 29, 2003):*

*McGill University values academic integrity. Therefore all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see <http://www.mcgill.ca/integrity/> for more information).*

*L'université McGill attache une haute importance à l'honnêteté académique. Il incombe par conséquent à tous les étudiants de comprendre ce que l'on entend par tricherie, plagiat et autres infractions académiques, ainsi que les conséquences que peuvent avoir de telles actions, selon le Code de conduite de l'étudiant et des procédures disciplinaires (pour de plus amples renseignements, veuillez consulter le site <http://www.mcgill.ca/integrity/>).*