



DRUGS AND THE BRAIN

Instructor

Zachariah Campbell

Teaching

Assistants

Jordan Benko

Laurie Hamel

Ian Miller

Lecture Details

Fridays,
10AM-12PM

AA112

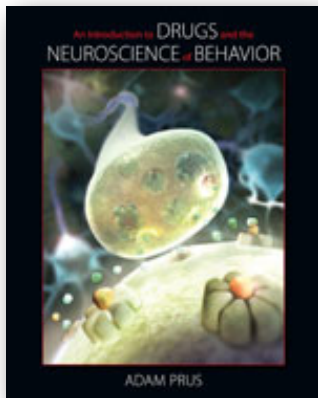
Content

UofT Learning Portal
(Blackboard)

COURSE OBJECTIVE

The objective of this course is to provide a comprehensive overview of neuropsychopharmacology. This interdisciplinary science examines the neurobiological and behavioural mechanisms that underlie psychoactive drug use, abuse, and dependence. We will cover the principles of pharmacology (pharmacodynamics, pharmacokinetics, and pharmacogenetics), neurobiological mechanisms of drug action; and behavioural psychopharmacology. The concepts of physical and psychological dependence, tolerance, sensitization, and reinforcement and aversion will also be covered. Finally, an examination of therapeutic agents (psychotropic medication) will be examined at length.

REQUIRED TEXTBOOK & COURSE MATERIALS



Prus, A. (2014). *An Introduction to Drugs and the Neuroscience of Behavior* (1st ed.). Cengage Learning.

All announcements and course materials including lecture slides, additional readings, links to media, and midterm grades will be made available exclusively on the Blackboard Learning Portal.

CONTACT INFORMATION

All course related inquiries are to be directed to the instructor (zac.campbell@utoronto.ca). All emails must contain the following subject line:

PSYC62H3 - Student Inquiry: (The nature of your inquiry)

Students also must use their academic email account (i.e., utsc or utoronto email) to abide by University policy and avoid fraudulent representation of your person. Email inquiries will receive a response within a reasonable time-frame (typically within 24-48 hours).

IMPORTANT NOTES

Prerequisites & Exclusions

Prerequisite: [PSYB07H3 or its equivalent] and [at least one of PSYB64H3, PSYB65H3 or NROB60H3] and [one additional B-level or C-level half credit in PSY or NRO]. Exclusion: PSY396H and PCL475Y

Academic Integrity

The **Code of Behaviour on Academic Matters** outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences. Potential offences include, but are not limited to: 1) using/possessing unauthorized aids or looking at someone else's answers during an exam or test; 2) misrepresenting your identity or falsifying/altering any documentation required by the University such as doctor's notes.

AccessAbility Resources

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services as soon as possible. AccessAbility Services staff (located in Room SW302, Science Wing) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations 416-287-7560 or email: ability@utsc.utoronto.ca.

SESSIONAL DATES

Dates

January 6

January 19

February 17

February 18-21

March 23

April 4

April 9

April 10-20

Detail

Classes begin

Last day to add S courses (on ROSI only)

Family Day holiday (University closed)

Reading week (No classes held)

Last day to drop S courses without academic penalty

Last day of classes

Last day to drop F courses with a LWD transcript indication

Final examinations is S and Y courses

*Regarding the Lecture Schedule, every effort will be made to maintain the posted lecture schedule but some deviation may occur depending on the content. Further, additional readings may be posted on the Blackboard.

GRADING SCHEME

Midterm Tests

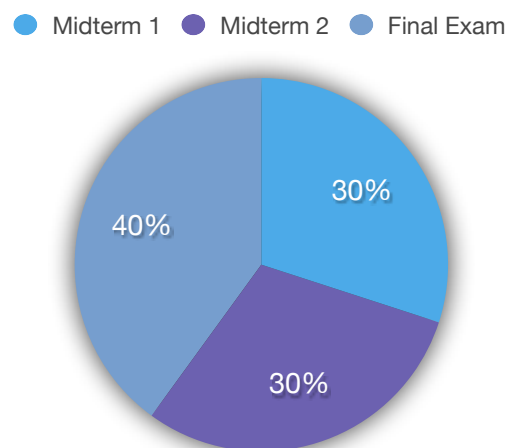
There will be two midterm tests that will contribute to approximately 60% towards the final grade (i.e., each worth 30%). Midterm 1 will be based on Chapters 1 through 5, any additional readings posted on Blackboard and, of course, all lectures to date. Midterm 2 will be based on Chapters 6 through 10, any additional readings and all lectures since the first midterm. That is, second midterm is not cumulative.

Final Examination

The final examination will be administered during the UTSC Final Examination Period (April 10-20). It will be worth approximately 40% and will be mostly based on any new content (i.e., Chapters 11-15, additional posted readings, etc) along with some cumulative coverage of previously tested material (i.e., before Midterm 2). This cumulative component will make up about 25% of the final examination and will be comparatively more general in nature.

Examination Structure

All exams will be comprised of multiple-choice and written response questions that are based on the readings as well as the content of the lectures. Details about the exact structure of each examination will be announced in-class and sample questions will be posted prior to the first midterm.



Missed Examinations

If a student is absent from a midterm examination due to illness or other extenuating circumstance, they must contact the instructor as soon as possible. For medical reasons, students must use the University of Toronto Student Medical certificate. It can be downloaded on the UTSC website. For approved absences from either midterm, students will write an extended cumulative final examination that covers missed content in specific detail. Matters concerning the final examination are dealt with solely by the Registrar's office.

LECTURE SCHEDULE

Lecture Date	Lecture Topic	Readings
January 10	Introduction to Neuropsychopharmacology	Chapter 1
January 17	Neuroanatomy	Chapter 2
January 24	Neurotransmission	Chapter 3
January 31	Properties of Drugs Drugs of abuse	Chapters 4-5
February 7	Midterm 1 Examination In-class	Not applicable
February 14	Psychostimulants, Nicotine, and Caffeine	Chapters 6-7
February 21	Reading week No class	Not applicable
February 28	Ethanol	Chapter 8
March 7	GHB, Inhalants, Anesthetics, and Opioids	Chapters 9-10
March 14	Midterm 2 Examination In-class	Not applicable
March 21	Cannabinoids & Psychedelic Drugs	Chapters 11-12
March 28	Psychotropic Therapy I	Chapters 13-15
April 4	Psychotropic Therapy II	Chapters 13-15