



# DRUGS AND THE BRAIN

PSYC62H3 W2017

## Instructor

Zachariah Campbell

## Teaching Assistants

Laurie Hamel

Laura Heath

Matthew McPhee

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## Lecture

Fridays 10AM-12PM

AA112

WebOption

## Office Hours

Fridays

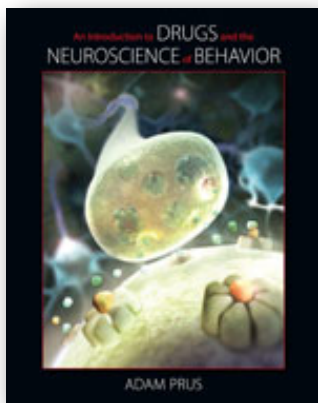
12PM-1PM

SY142

## 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 and the neurobiological mechanisms of drug action. The concepts of dependence (physical and psychological), tolerance, sensitization, reinforcement and aversion will also be covered. Finally, an examination of therapeutic agents (psychotropic medication) and cognitive enhancers will also 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 Blackboard (U of T Learning Portal).

## CONTACT INFORMATION

All course related inquiries are to be directed to the currently designated TA on Blackboard. Please address emails with the following subject line to ensure a response:

**RE: PSYC62H3 - Student Inquiry: “Insert the topic of your inquiry here”**

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.

## 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]. Exclusions: 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 the instructor and/or 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 & email: [ability@utsc.utoronto.ca](mailto:ability@utsc.utoronto.ca).

## SESSIONAL DATES

### Dates

January 2

January 15

February 20

February 21-24

March 19

March 19

March 31

April 1-4

April 4

April 5-22

### Detail

Winter Session classes begin

Last day to add S courses on ACORN

Family Day holiday (University closed)

Reading Week (No classes held)

Last day to drop S courses without academic penalty

Last day to add or remove CR/NCR for S courses

Last day of classes for S & Y courses and submission of term assignments

Study break

Last day to drop S & Y courses with a LWD transcript indication

Final examination period

# EVALUATIVE COMPONENTS

## Term Tests & Final Examination

There will be two (2) term tests held outside of class (yet to be scheduled by the Office of the Registrar). The second term test is non-cumulative. **Note: the first midterm may take place as early as the week of Monday, January 31.**

A final examination will be administered during the UTSC Final Examination Period. It will be primarily based on material not evaluated by either term test, but a smaller proportion of questions will be cumulative in nature.

The exact weight (%) and content coverage of each term test and the final examination will be determined once the Office of the Registrar sets the date of each term test. They will collectively contribute to 90% of the final grade.

## Written Assignment

For the written assignment, a psychopharmacological problem will be proposed wherein you are required to provide a unique solution based on the knowledge you will acquire throughout the course. The details for this assignment will be posted after the first term test.

The maximum length of this assignment (beyond the cover page) is ONE page, single-spaced using 12-point times new roman font and 1-inch margins. Anything longer and you will be given a grade of 0% on this assignment. All submissions will go through blackboard.

Normally, students will be required to submit their course essays to Turnitin.com for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the Turnitin.com reference database, where they will be used solely to detect instances of plagiarism. The terms that apply to the University's use of the Turnitin.com service are described on the Turnitin.com web site.

Here are some instructions for submitting your assignment:

<http://portalinfo.utoronto.ca/content/submit-turnitin-assignment>

The assignment is worth 10% of your final grade in the course and is due Friday, March 31, 2017 at 11:55 PM on Blackboard. Late submission will result in a deduction of 10% per day to a maximum of 3 days.

# MISSED TERM WORK DUE TO A MEDICAL ILLNESS OR EMERGENCY

## **Department-Wide Policy and Procedures (Read carefully)**

All students citing a documented reason for missed term work (this includes assignments and midterm exams) must bring their documentation to the Undergraduate Course Coordinator, Ainsley Lawson, **within three (3) business days** of the term test / assignment due date. All documentation must be accompanied by the departmental **Request for Missed Term Work form** (<http://uoft.me/PSY-MTW>).

In the case of missed term work due to illness, only an **original copy** of the **official UTSC Verification of Illness Form** (<http://uoft.me/PSY-MED>) will be accepted. Forms are to be completed in full, clearly indicating the start date, anticipated end date, and severity of illness. The physician's registration number and business stamp are required.

In the case of other emergency, a record of visitation to a hospital emergency room or copy of a death certificate may be considered.

**Forms should be dropped off in SW427C between 9 AM - 4 PM, Monday through Friday.** Upon receipt of the documentation, you will receive an email response from the Course Instructor / Course Coordinator within three business days. The Course Instructor reserves the right to decide what accommodations (if any) will be made for the missed work.

Note that this policy applies only to missed term work (assignments and midterms). Missed final exams are dealt with by the Registrar's Office (<http://www.utsc.utoronto.ca/registrar/missing-examination>).

**Failure to adhere to any aspect of this policy may result in a denial of your request for accommodation.**

# STATEMENT ON ACADEMIC INTEGRITY

Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto is a strong signal of each student's individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously. The University of Toronto's Code of Behaviour on Academic Matters (<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>) outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences. Potential offences include, but are not limited to:

## **In papers and assignments:**

- Using someone else's ideas or words without appropriate acknowledgement.
- Submitting your own work in more than one course without the permission of the instructor.
- Making up sources or facts.
- Obtaining or providing unauthorized assistance on any assignment.

## **On tests and exams:**

- Using or possessing unauthorized aids.
- Looking at someone else's answers during an exam or test.
- Misrepresenting your identity.

## **In academic work:**

- Falsifying institutional documents or grades.
- Falsifying or altering any documentation required by the University, including (but not limited to) doctor's notes.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. If you have questions or concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, you are expected to seek out additional information on academic integrity from your instructor or from other institutional resources (see <http://www.utoronto.ca/academicintegrity/>).

# COURSE SCHEDULE

<b>Date</b>	<b>Week</b>	<b>Lecture Topic</b>	<b>Readings</b>
Jan 6	Week 1	Introduction to Psychopharmacology Review of the Nervous System	Chapters 1-2
Jan 13	Week 2	Neurotransmission Neurotransmitter Systems	Chapter 3
Jan 20	Week 3	Pharmacokinetics Pharmacodynamics	Chapter 4
Jan 27	Week 4	Drugs of Abuse Neuropsychology of Addiction	Chapter 5

**Note:** Midterm 1 will take place outside of class time. [Please note that it may be scheduled as early as Monday, January 30.](#) Testable content will include lectures and assigned material up to the scheduled date. This date is yet to be determined by the Office of the Registrar and will be announced on Blackboard once known to the instructor.

Feb 3	Week 5	Psychostimulants I	Chapter 6
Feb 10	Week 6	Psychostimulants II	Chapter 7
Feb 17	Week 7	Depressants	Chapters 8-9
Feb 24		Reading Week (No classes)	

**Note:** Midterm 2 will also take place outside of class time [and may be scheduled as early as Monday, February 27.](#) Testable content will be based on the actual date scheduled and any material that was not evaluated by Midterm 1.

Mar 3	Week 8	Opioids Cannabinoids	Chapters 10-11
Mar 10	Week 9	Psychedelics	Chapter 12
Mar 17	Week 10	Antidepressants Mood Stabilizers	Chapter 13
Mar 24	Week 11	Anxiolytics & Antipsychotics	Chapters 14-15
Mar 31	Week 12	TBA	TBA