

Winter 2020 Course Syllabus
Drugs and the Brain (PSYC62)

Tuesdays, 5:00pm – 7:00pm, AC223
Instructor: Mark Morrissey, Ph.D.

Teaching Assistants: Moaz Shoura/ Laura Heath (55 hours)/ Nisma Khan (75 hours)/ Matt McPhee/ Jennifer Wilkin

Course Email: PSYC62.winter.2020@gmail.com

A note on email communication: All questions regarding the course, lectures, readings, exams, etc. must be sent to the course email address: PSYC62.winter.2020@gmail.com . Questions that have already been answered in the course syllabus, in lecture slides, or on Blackboard will not receive a response. Students are asked to contact Dr. Morrissey directly for personal or confidential matters, at mark.morrissey@mail.utoronto.ca

**** Please note:** Course announcements will be made through Quercus. Students are responsible for monitoring the course website regularly for important announcements and updates. Class emails will also be sent through Quercus. Therefore, students are responsible for making sure that their listed email address is correct. ******

REQUIRED TEXTBOOK: Prus, A. (2017). *An Introduction to Drugs and the Neuroscience of Behavior* (2nd ed.). Cengage Learning.

COURSE DESCRIPTION: 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. Several lectures will focus on specific drugs with an emphasis on their mechanisms of action, what they tell us about the brain, and clinical relevance. The concepts of physical and psychological dependence, tolerance, sensitization, and reinforcement and aversion will also be covered.

Prerequisite:

[[PSYB07H3](#) or [STAB22H3](#) or [STAB23H3](#)] and [at least 0.5 credit from the following: [PSYB64H3](#), [PSYB55H3](#), ([PSYB65H3](#)), [NROB60H3](#)] and [an additional 0.5 credit at the B-level or C-level in PSY or NRO courses]

Exclusion:

PSY396H, PCL475Y

COURSE STRUCTURE The format of the course will consist primarily of lectures, but will also include video and other methods to help illustrate course material. The material covered in lectures will generally correspond to the material in the textbook, but will often serve to supplement the readings rather than simply duplicate their contents. Therefore, I strongly recommend having completed the relevant readings prior to attending class or watching the accompanying online lecture; having done so will make the learning experience more enjoyable and productive. I will also present material that is not included in the readings; therefore, familiarity with both lectures and course readings is necessary to succeed in this course. You will be responsible for all material presented in class and in the required readings. I will make lecture slides available on Quercus, but these will not be sufficient to understand everything that was covered in lecture. I will do my best to post the lecture slides several hours prior to class time each week.

QUIZZES, TERM TEST AND FINAL EXAM

mTuner quizzes (5% each): Students will be required to complete two online quizzes during the semester. These quizzes will be taken online with mTuner. mTuner allows for enhanced online multiple-choice tests specifically designed to help promote students' learning and understanding of the course material. The quizzes are designed to help students keep up with the course material and be prepared for the mid-term and the final exam. No extensions will be granted for completing the quizzes. Specific details about the mTuner quizzes will be provided on Quercus.

Quiz 1: Will take place during the week of February 11th, 2020 (exact timing TBA) and will cover Lectures 1 to 5

Quiz 2: Will take place during the week of March 31st, 2020 (exact timing TBA) and will cover Lectures 6 to 1.

Mid-term examination (35%): The mid-term exam will cover all required readings and lecture material from Lecture 1 to Lecture 6. The exam will consist primarily of multiple-choice questions, with a few short answer questions, and will not exceed two hours. The exam will be scheduled by the registrar.

Final examination (45%): The final exam will be cumulative. It will cover all course material however an emphasis will be placed on material from Lecture 7 to Lecture 12. The exam will consist primarily of multiple-choice questions, with a few short answer questions, and will not exceed two hours. The final exam will be scheduled during the University examination period.

Drug Paper (10%): You will be required to choose a drug to focus on for a brief (3-5 page) research report. Details will be discussed in class. The paper is to be submitted during the last lecture of class (March 31).

Lecture Date	Lecture Topic	Readings
January 7	Introduction to Neuropsychopharmacology	Chapter 1
January 14	Neuroanatomy	Chapter 2
January 21	Neurotransmission	Chapter 3
January 28	Properties of Drugs	Chapter 4
February 4	Drugs of abuse	Chapter 5
February 11	Psychostimulants	Chapter 6
February 18	Reading week- No class	NA
February 25	Nicotine, and Caffeine	Chapter 7
March 3	Ethanol	Chapter 8
March 10	GHB, Inhalants, Anesthetics	Chapter 9
March 17	Opioids	Chapter 10
March 2	Cannabinoids & Psychedelic Drugs	Chapters 11-12
March 31	Psychotropic Therapy	Chapters 13-15

*Please note that this outline is subject to change depending on the needs of the class (we may need additional time to cover a topic). Any changes to the syllabus will be announced ahead of time. However, the test dates will be fixed.

Policies for Examinations in this Course

Please Note: You must bring **photo identification** with you to each examination or you will not be permitted to write the examination.

Missed Mid-term Examination: A make-up mid-term exam will be held approximately two weeks following the date of the mid-term. Students will be permitted to take the make-up exam only if they were absent on the date of the mid-term exam due to a verified illness, a serious family emergency (e.g., death of a close family member), or religious observances. Students must follow the departmental policy outlined below when submitting relevant documentation. Only those students who follow this process will be considered for writing the make-up mid-term.

Students who do not submit their documentation on time, whose documents are not accepted, or who do not appear for the make-up mid-term, will receive a grade of zero on the mid-term exam.

Missed Term Work due to Medical Illness or Other Emergency:

All students citing a documented reason for missed term work must submit their request for accommodations **within three (3) business days** of the deadline for the missed work.

Students must submit **BOTH** of the following:

- (1.) A completed **Request for Missed Term Work Accommodations form** (<http://uoft.me/PSY-MTW>), and
- (2.) **Appropriate documentation** to verify your illness or emergency, as described below.

Appropriate documentation:

For missed **TERM TESTS** due to **ILLNESS**:

- Submit the Request for Missed Term Work Accommodations form (<http://uoft.me/PSY-MTW>), along with an **original** copy of the official UTSC Verification of Illness Form (uoft.me/UTSC-Verification-Of-Illness-Form) or an **original** copy of the record of visitation to a hospital emergency room. 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.

For missed **ASSIGNMENTS** due to **ILLNESS**:

- Submit the Request for Missed Term Work Accommodations form (<http://uoft.me/PSY-MTW>), along with a **hardcopy** of the Self-Declaration of Student Illness Form (uoft.me/PSY-self-declare-form).

For missed term tests or assignments in **OTHER CIRCUMSTANCES**:

Submit the Request for Missed Term Work Accommodations form (<http://uoft.me/PSY-MTW>), along with:

- In the case of a **death of a family member or friend**, please provide a copy of a death certificate.

- In the case of a **disability-related concern**, if your desired accommodation is within the scope of your Accommodation Letter, please attach a copy of your letter. If your desired accommodation is outside the scope of your Accommodation Letter (ex. if your letter says “extensions of up to 7 days” but you need more time than that) you will need to meet with your consultant at AccessAbility Services and have them email Keely Hicks (keely.hicks@utoronto.ca) detailing the accommodations required.
- For U of T Varsity **athletic commitments**, an email from your coach or varsity administrator should be sent directly to Keely Hicks (keely.hicks@utoronto.ca) **well in advance** of the missed work, detailing the dates and nature of the commitment.
- For **religious accommodations**, please email (keely.hicks@utoronto.ca) **well in advance** of the missed work.

Documents covering the following situations are NOT acceptable: medical prescriptions, personal travel, weddings/personal/work commitments.

Procedure:

Submit your (1.) [request form](#) and (2.) [medical/self-declaration](#)/other documents in person **WITHIN 3 BUSINESS DAYS** of the missed term test or assignment.

Submit to: Keely Hicks, Room SW420B, Monday – Friday, 9 AM – 4 PM

Exceptions to the documentation deadline will only be made under exceptional circumstances. If you are unable to meet this deadline, you must email Keely Hicks (keely.hicks@utoronto.ca) **within the three business day window** to explain when you will be able to bring your documents in person. Attach scans of your documentation.

Within approximately one week, you will receive an email response from your instructor detailing the accommodations to be made (if any). **You are responsible for checking your official U of T email and Quercus course announcements daily, as accommodations may be time-critical.**

Completion of this form does NOT guarantee that accommodations will be made. The course instructor reserves the right to decide what accommodations (if any) will be made. Failure to adhere to any aspect of this policy may result in a denial of your request for accommodation.

Note that this policy applies only to missed assignments and term tests. Missed final exams are handled by the Registrar’s Office (<http://www.uts.utoronto.ca/registrar/missing-examination>).

Rights and Responsibilities

Copyright in Instructional Settings:

If a student wishes to tape-record, photograph, video-record or otherwise reproduce lectures, course notes/slides, or other similar materials provided by instructors, he or she must obtain the instructor’s written consent beforehand. Without consent, all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by students with disabilities, the instructor’s consent will not be unreasonably withheld.

Accessibility:

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 Rm SW302, Science Wing) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations [416-287- 7560](tel:416-287-7560) or email ability@utsc.utoronto.ca. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

Students working with the AccessAbility office who require accommodations for the mTuner quizzes are asked to notify us as early as possible in the semester, and no later than two weeks before the first quiz, in order to allow sufficient time to set up a modified online quiz.

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/Assets/Governing+Council+Digital+Assets/Policies/PDF/ppjun011995.pdf>) 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; and
- When you knew or ought to have known you were doing it.

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; and
- When you knew or ought to have known you were doing so.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. If students have questions or

concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, they are expected to seek out additional information on academic integrity from their instructors or from other institutional resources.

Note:

You may see advertisements for services offering grammar help, essay editing and proof-reading. Be very careful. If these services take a draft of your work and significantly change the content and/or language, you may be committing an academic offence (unauthorized assistance) under the *Code of Behaviour on Academic Matters*.

It is much better and safer to take your draft to the Writing Centre as early as you can. They will give you guidance you can trust. Students for whom English is not their first language should go to the English Language Development Centre.

If you decide to use these services in spite of this caution, you must keep a draft of your work and any notes you made before you got help and be prepared to give it to your instructor on request.

UTSC Missed Final Examination Policy:

From the UTSC Registrar's Office: "Students are expected to write their final examinations at the end of their courses and are strongly discouraged from missing a final examination. Very occasionally, students encounter circumstances where it is impossible for them to write a final examination; for example, because of a serious illness or the death of a close family member. If you are ill or other circumstances absolutely prevent you from attending a final examination, you may petition (with supporting documentation) for permission to defer writing it until a later date. In most cases deferred exams will be written in the next final examination period or in the study break that immediately precedes it. However, students should be aware that deferred exams can be scheduled at any time during the following session."

NUMERICAL MARKS	LETTER GRADE	GRADE POINT VALUE
90 - 100%	A+	4.0
85 - 89%	A	4.0
80 - 84%	A-	3.7
77 - 79%	B+	3.3
73 - 76%	B	3.0
70 - 72%	B-	2.7
67 - 69%	C+	2.3
63 - 66%	C	2.0
60 - 62%	C-	1.7
57 - 59%	D+	1.3
53 - 56%	D	1.0
50 - 52%	D-	0.7
0 - 49%	F	0.0

