

PSYC/NEUR 475	Drugs and Behaviour	Winter 2022
----------------------	----------------------------	--------------------

Instructor:	Derya Sargin	Lecture Location:	SS 012
Phone:		Lecture Days/Time:	MWF 16:00-16:50
Email:	derya.sargin@ucalgary.ca	[Lab and/or TA info in remaining cells (delete if N/A)]	TA: Nazmus Sakib Khan Email: nazmus.khan1@ucalgary.ca

Office:

Office Hours: By appointment over zoom,
email to arrange a time

Course Description

The aim of the course is to provide insight into the mechanisms whereby drugs exert their action on the central nervous system to influence biochemical, physiological, and behavioural processes.

Course Learning Outcomes

The Department of Psychology is committed to student knowledge and skill development. The table below lists the key learning outcomes for this course, the program-learning outcomes they facilitate (see <https://live-arts.ucalgary.ca/psychology/about#program-learning-outcomes>), and the expected level of achievement.

Course Learning Outcomes	Assessment Methods	PLO(s)	Level(s)
Explain the mechanisms of drug action	Exams, written assignment	1,4	I
Explain how different drugs interact with nervous system function and influence behaviour	Exams, written assignment	1,4	I
Outline the theories and mechanisms of drug addiction and its treatment	Exams, written assignment	1,4	I
Evaluate methods and findings from behavioural pharmacological studies	Exams, written assignment	1,2,4,5,7	C

Summarize and critically evaluate information regarding behavioural pharmacology	Exams, written assignment	1,2,4,5,7	A
Demonstrate scientific writing skills	Written assignment	1,2,4	A

Notes. PLOs = Program-Learning Outcomes: 1 = demonstrate knowledge of psychological sciences, 2 = think critically and solve problems, 3 = conduct research and analyze data, 4 = communicate effectively, 5 = demonstrate information literacy, 6 = understand and implement ethical principles in a diverse world, 7 = apply psychological knowledge and skills, 8 = Demonstrate multicultural competence and awareness of issues related to equity, diversity,* and inclusion. Level of PLO achievement facilitated by this course: I = introductory, C = competency, A = advanced.

Acknowledgments and Respect for Diversity

Our classrooms view diversity of identity as a strength and resource. Your experiences and different perspectives are encouraged and add to a rich learning environment that fosters critical thought through respectful discussion and inclusion. The Department of Psychology would also like to acknowledge the traditional territories of the people of the Treaty 7 region in southern Alberta. The City of Calgary is also home to Métis Nation of Alberta, Region III.

Course Format

This is an in-person class held on campus.

Prerequisites

Admission to the Psychology major or Honours program and Psychology 312 or 300 and 301, and 375.

Required Text

Psychopharmacology: Drugs, the Brain, and Behavior, Jerrold S. Meyer and Linda F. Quenzer

Available at the University Bookstore and online vendors.

Assessment Methods

Midterm Exam #1 ONLINE (Lectures 1-12; February 7):	25%
Midterm Exam #2 ONLINE (Lectures 13-24; March 16):	25%
Written Assignment (due April 6 th)	20%
Final Exam ONLINE (Lectures 25-35; TBA):	30%

Exams:

There will be two midterms for this course, each consisting of mix of short answer/multiple choice questions. Exam questions will be drawn from lectures and textbook. Midterm #1 will be held on February 7th and will be worth 25% of your final grade. Midterm #2 will be held on March 16th and will also be worth 25% of your final grade. The final exam will be scheduled by the registrar and is worth

30% of your final grade. **Exams will NOT be cumulative.** Short answer questions will be graded such that half marks will be given if it is clear that you know the general answer, but have omitted specific details or scientific terms. Full marks will be given to those that include specifics, and employ the correct terminology and concepts.

Midterm Exam #1 will be available on D2L at the beginning of class on **February 7th** and will be available for 24 hours. When you access the assessment, you will have the length of the class [50 minutes] to complete and submit it.

Midterm Exam #2 will be available on D2L at the beginning of class on **March 16th** and will be available for 24 hours. When you access the assessment, you will have the length of the class [50 minutes] to complete and submit it.

Final Exam will be available on D2L 24 hours prior to the date/time assigned by the Registrar. The exam should be completed and submitted by the registrar-determined date/time. Once you log in, you will have 3 hours (50% extra time included) to complete the exam.

If you experience an issue that affects your ability to complete the assessment, which can include (but is not limited to) issues with technology, caregiving responsibilities, or distractions within your test-taking environment, you will need to contact your instructor as soon as possible to arrange an alternate or (in the case of technical issues) extended time to write the assessment.

Exams in this course are closed book. The use of resources, including class notes, the textbook, online resources, and calculators is prohibited during the exams in this course.

Written Assignment:

The written assignment will be worth 20% of your final grade. It should be written in 12-point font, and will require a maximum of 3 double-spaced pages (not including references, or title page). It will be assigned on March 18th and will be due at the beginning of class on April 6th. You will be asked a question that pertains to our in-class discussion of drugs and behaviour, as well as contemporary issues in the field. Further details regarding the assignment, including the grading rubric, will be provided in class and posted on D2L. **All reports are to be handed via Dropbox. Without instructor approval, late assignments will be penalized 10% per day, including weekends.**

University of Calgary Academic Integrity Policy

Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity.

Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional code of conduct and promote academic integrity in upholding the University of Calgary's reputation of excellence. It is your responsibility to ensure that you have read and are familiar with the student academic misconduct policy:

<https://www.ucalgary.ca/policies/files/policies/student-academic-misconduct-policy.pdf>.

Department of Psychology Criteria for Letter Grades

Psychology course instructors use the following criteria when assigning letter grades:

A+ grade: *Exceptional Performance.* An A+ grade indicates near perfect performance on multiple choice and short answer exams. For research papers/essays/course projects/presentations, an A+ grade is awarded for exceptional work deserving of special recognition and is therefore not a common grade.

A, A- Range: *Excellent Performance.* Superior understanding of course material. Written work is very strong in terms of critical and original thinking, content, organization, and the expression of ideas, and demonstrates student's thorough knowledge of subject matter.

B Range: *Good Performance.* Above average understanding of course material. Written work shows evidence of critical thinking and attention to organization and editing but could be improved in form and/or content.

C Range: *Satisfactory Performance.* Adequate understanding of course material. Knowledge of basic concepts and terminology is demonstrated. Written work is satisfactory and meets essential requirements but could be improved significantly in form and content. Note: All prerequisites for courses offered by the Faculty of Arts must be met with a minimum grade of C-.

D range: *Marginally meets standards.* Minimal understanding of subject matter. Written work is marginally acceptable and meets basic requirements but requires substantial improvements in form and content. Student has not mastered course material at a level sufficient for advancement into more senior courses in the same or related subjects.

F grade: *Course standards not met.* Inadequate understanding of subject matter. Written work does not meet basic requirements. Student has not demonstrated knowledge of course material at a level sufficient for course credit.

Grading Scale

A+	96-100%	B+	80-84%	C+	67-71%	D+	54-58%
A	90-95%	B	76-79%	C	63-66%	D	50-53%
A-	85-89%	B-	72-75%	C-	59-62%	F	0-49%

It is at the instructor's discretion to round off either upward or downward to determine a final grade when the average of term work and final examinations is between two letter grades.

To determine final letter grades, final percentage grades will be rounded up or down to the nearest whole percentage (e.g., 89.5% will be rounded up to 90% = A but 89.4% will be rounded down to 89% = A-).

Tentative Lecture Schedule

Date	Topic/Activity/Readings/Due Date (revise and add columns & rows as necessary)
M Jan 10	<i>University Lectures begin.</i> Lecture 1-Introduction (Ch 1)
W Jan 12	Lecture 2-Principles of Psychopharmacology (Ch 1)
F Jan 14	Lecture 3-Principles of Psychopharmacology (Ch 1)
M Jan 17	Lecture 4-Pharmacokinetics (Ch 1)
W Jan 19	Lecture 5-Pharmacokinetics (Ch 1)
R Jan 20	<i>Last day to drop a class without penalty</i>
F Jan 21	<i>Last day to add/swap a class</i> Lecture 6-Pharmacodynamics (Ch 1)
M Jan 24	Lecture 7- Pharmacodynamics (Ch 1)
W Jan 26	Lecture 8-Nervous System (Ch 2-3)
F Jan 28	<i>Fee payment deadline for Fall Term full and half courses.</i> Lecture 9-Nervous System (Ch 2-3)
M Jan 31	Lecture 10-Catecholamines (Ch 5)
W Feb 2	Lecture 11-Catecholamines (Ch 5)
F Feb 4	Lecture 12-Catecholamines (Ch 5)
M Feb 7	Midterm 1
W Feb 9	Lecture 13-Serotonin (Ch 6)
F Feb 11	Lecture 14-Mood Disorders (Ch 6)
M Feb 14	Lecture 15-Acetylcholine (Ch 7)
W Feb 16	Lecture 16-Glutamate (Ch 8)
F Feb 18	Lecture 17-Glutamate (Ch 8)
M Feb 21	<i>Family Day No Classes</i>
Feb 22-26	<i>Term Break No Classes</i>
M Feb 28	Lecture 18-GABA (Ch 8)
W Mar 2	Lecture 19-Drug Abuse and Addiction (Ch 9)
F Mar 4	Lecture 20-Drug Abuse and Addiction (Ch 9)
M Mar 7	Lecture 21-Drug Abuse and Addiction (Ch 9)
W Mar 9	Lecture 22-Drug Abuse and Addiction (Ch 9)

F Mar 11	Lecture 23-Drug Abuse and Addiction (Ch 9)
M Mar 14	Lecture 24-Drug Abuse and Addiction (Ch 9)
W Mar 16	Midterm 2
F Mar 18	Lecture 25-Alcohol (Ch 10)
M Mar 21	Lecture 26-Alcohol (Ch 10)
W Mar 23	Lecture 27-Alcohol (Ch 10)
F Mar 25	Lecture 28-Alcohol (Ch 10)
M Mar 28	Lecture 29-Opioids (Ch 11)
W Mar 30	Lecture 30-Psychostimulants-Cocaine (Ch 12)
F Apr 1	Lecture 31-Psychostimulants-Cocaine (Ch 12)
M Apr 4	Lecture 32-Psychostimulants-Amphetamine (Ch 12)
W Apr 6	Lecture 33-Caffeine (Ch 13) Written Assignment due
F Apr 8	Lecture 34-Nicotine (Ch 13)
M Apr 11	Lecture 35-Psychedelic Drugs (Ch 15)
T Apr 12	<i>Winter Term Lectures End. Last day to withdraw with permission from Winter Term half courses.</i>
Apr 19-29	Fall Final Exam Period

Extra Research Participation Course Credit is Not Offered for this Course.

Supporting Documentation

Students may be asked to provide supporting documentation for an exemption/special request. This may include, but is not limited to, a prolonged absence from a course where participation is required, a missed course assessment, a deferred examination, or an appeal. Students are encouraged to submit documentation that will support their situation. Supporting documentation may be dependent on the reason noted in their personal statement/explanation provided to explain their situation. This could be medical certificate/documentation, references, police reports, invitation letter, or a statutory declaration, etc. The decision to provide supporting documentation that best suits the situation is at the discretion of the student. Students cannot be required to provide specific supporting documentation, such as a medical note.

Students can make a Statutory Declaration as their supporting documentation (available at ucalgary.ca/registrar). This requires students to make a declaration in the presence of a Commissioner for Oaths. It demonstrates the importance of honest and accurate information provided and is a legally binding declaration. Several registered Commissioners for Oaths are available to students at no charge, on campus, please see ucalgary.ca/registrar.

Falsification of any supporting documentation will be taken very seriously and may result in disciplinary action through the Academic Discipline regulations or the Student Non-Academic Misconduct policy.

Absence From A Test/Exam

Makeup tests/exams are **NOT** an option without the approval of the instructor. Students who miss a test/exam have up to 48 hours to contact the instructor to ask for a makeup test/exam. It's the instructor's discretion if they will allow a make-up exam. Students who do not schedule a makeup test/exam with the instructor within this 48-hour period forfeit the right to a makeup test/exam. At the instructor's discretion, a makeup test/exam may differ significantly (in form and/or content) from a regularly scheduled test/exam. Once approved by the instructor a makeup test/exam must be written within 2 weeks of the missed test/exam on a day/time scheduled by the instructor. If a student cannot write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam <https://www.ucalgary.ca/registrar/exams/deferred-exams>.

Travel During Exams

Consistent with University regulations, students are expected to be available to write scheduled exams at any time during the official December and April examination periods. Requests to write a make-up exam because of conflicting travel plans (e.g., flight bookings) will NOT be considered by the department. Students are advised to wait until the final examination schedule is posted before making any travel arrangements. If a student cannot write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam <https://www.ucalgary.ca/registrar/exams/deferred-exams>. Students with an exceptional extenuating circumstance (e.g., a family emergency) should contact the Department of Psychology (psyugrd@ucalgary.ca).

Reappraisal of Graded Term Work <http://www.ucalgary.ca/pubs/calendar/current/i-2.html>

Reappraisal of Final Grade <http://www.ucalgary.ca/pubs/calendar/current/i-3.html>

Academic Accommodations

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit www.ucalgary.ca/access/. Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at <https://www.ucalgary.ca/legal-services/university-policies-procedures/accommodation-students-disabilities-procedure>.

Academic Misconduct

For information on academic misconduct and its consequences, please see the University of Calgary Calendar at <http://www.ucalgary.ca/pubs/calendar/current/k.html>

Instructor Intellectual Property

Course materials created by professor(s) (including course outlines, presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the professor(s). These materials may NOT be reproduced, redistributed or copied without the explicit consent of the professor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

Copyright Legislation

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf) and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorized sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

Freedom OF Information and Protection of Privacy

Student information will be collected in accordance with typical (or usual) classroom practice. Students assignments will be accessible only by the authorized course faculty. Private information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary

Student Support and Resources

<https://www.ucalgary.ca/registrar/registration/course-outlines>

Important Dates

The last day to drop this course with no "W" notation and **still receive a tuition fee refund** is **Thursday, Thursday, January 20, 2022**. Last day add/swap a course is **Friday, January 21, 2022**. The last day to withdraw from this course is **Tuesday, April 12, 2022**.

<https://www.ucalgary.ca/pubs/calendar/current/academic-schedule.html>