

PSYC 475 (NEUR 475)
Drugs & Behaviour
Fall 2019

Instructor:	Dr. Daniel McGrath	Lecture Location:	SH 284
Phone:	403-220-7268	Lecture Days/Time:	M, W, F 10:00–10:50
Email:	mcgrathteach@ucalgary.ca		
Office:	Administration Building 216		
Office Hours:	Mon & Wed 2:00-2:50		

Course Description

In this course we will examine the behavioural pharmacology of drugs of abuse. This course explores principles of pharmacology, neural transmission, behavioural assessment of drug effects, theories of addiction, tolerance, and dependence as a conceptual introduction to behavioural pharmacology. It discusses specific psychopharmacologic issues pertaining to alcohol, benzodiazepines, barbiturates, opiates, psychomotor stimulants, caffeine, tobacco, hallucinogens, and some prescription medications.

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 psyc.ucalgary.ca/undergraduate/program-learning-outcomes), and the expected level of achievement.

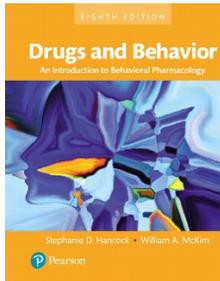
Course Learning Outcomes	Assessment Methods	PLO(s)	Level(s)
Describe the pharmacology of drug use and how drugs affect behaviour	Tests	1, 4	I
Demonstrate an understanding of research methods in behavioural pharmacology	Tests + Assignment	1, 3	C
Demonstrate a basic understanding of different classes of licit and illicit drugs	Tests	1,4	C
Examine the complexity of drug abuse and addiction	Tests + Assignment	1	C
Demonstrate the ability to write scientifically	Assignment	7,4	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, 7 = apply psychological knowledge and skills. Level of PLO achievement facilitated by this course: I = introductory, C = competency, A = advanced.

Prerequisites

Psychology 312 - Experimental Design and Quantitative Methods for Psychology or Psychology 300 and 301 – Research Design and Data Analysis in Psychology I and II
 Psychology 375 - Brain and Behaviour

Required Text



Hancock, S. & McKim, W. (2018). *Drugs and Behavior: An Introduction to Behavioral Pharmacology* (eighth edition). Pearson Canada; Toronto, ON.

There is an unbound additional available at the University Bookstore and online. There is also a Kindle edition of the book.

Desire2Learn (D2L)

There is an area on the general campus D2L site set aside for this course. D2L can be accessed via this link: <https://d2l.ucalgary.ca/d2l/home>

THIS SITE SHOULD BE YOUR FIRST STOP FOR QUESTIONS ABOUT COURSE TOPICS, DATES, ETC.

Assessment Methods

(1) Midterm Exam #1 (October 9th)	25%
(2) Midterm Exam #2 (November 8th)	25%
(3) Research Proposal (due November 27th)	15%
(4) Final Exam (Scheduled by registrar)	35%

(1 & 2) Midterm Exams

There will be two midterm exams for this course. The relevant information for each is as follows:

Midterm Exam #1

- Could include any material covered in class as well as from the assigned textbook chapters
- Chapters covered include: 1, 2, 3, 4, & 5
- Comprised of a mix of multiple choice and short answer questions
- Worth 25% of the final grade

Midterm Exam #2

- Could include any material covered in class as well as from the assigned textbook chapters presented after Midterm #1
- Chapters covered include: 6, 8, 9, & 10
- Comprised of a mix of multiple choice and short answer questions
- Worth 25% of the final grade

(3) Research Proposal

Students will be required to complete a research proposal on a topic of their choosing. The assignment will involve proposing a novel research idea from any area of behavioural psychopharmacology. When writing the proposal, students should adhere to APA guidelines (6th edition).

- The research proposal is due November 27th
- Please submit a paper copy in class AND an electronic copy on the D2L system
- The proposal will require a formal Introduction (i.e., literature review, rationale, hypotheses), Methods, Expected Results, and Reference sections
- More information on the structure and expectations of the proposal will be provided on the Desire2Learn course page
- Without approved documentation late assignments will be penalized 10% per day (including weekends)
- Worth 15% of the final grade

(4) Final Exam

Scheduled by the registrar during the fall exam period

- 3 hours will be allocated for the exam
- The final exam IS CUMULATIVE; however, more emphasis will be placed on class material and textbook chapters covered after Midterm #2
- Could include any material covered in class as well as from the assigned textbook chapters
- Chapters covered include: Cumulative
- Comprised of a mix of multiple choice, short answer questions, and long answer questions
- Worth 35% of the final grade

NOTE: Mobile phones and other electronic devices are not permitted during exams. No written notes or texts will be allowed either.

Department of Psychology Criteria for Letter Grades

Psychology professors 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%

As stated in the University Calendar, 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
F Sep 6	Introduction to the Course
M Sep 9	Chapter 1. Basic Pharmacology
W Sep 11	Chapter 1. Basic Pharmacology
R Sep 12	Last day to drop a class without a penalty
F Sep 13	Chapter 1. Basic Pharmacology Last day to add or swap a course
M Sep 16	Chapter 2. Behavioural Analysis
W Sep 18	Chapter 2. Behavioural Analysis
F Sep 20	Chapter 2. Behavioural Analysis Fee payment deadline for Fall Term full and half courses.
M Sep 23	Chapter 3. How we Adapt to Drugs
W Sep 25	Chapter 3. How we Adapt to Drugs
F Sep 27	Chapter 3. How we Adapt to Drugs
M Sep 30	Chapter 4. Neurotransmitters
W Oct 2	Chapter 5. Substance Use and Addictive Disorders

F Oct 4	Chapter 5. Substance Use and Addictive Disorders
M Oct 7	Chapter 5. Substance Use and Addictive Disorders
W Oct 9	Midterm 1 (Chapter 1, 2, 3, 4, & 5)
F Oct 11	Chapter 6. Alcohol
M Oct 14	Thanksgiving Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.
W Oct 16	Chapter 6. Alcohol
F Oct 18	Chapter 6. Alcohol
M Oct 21	Chapter 8. Tobacco and Nicotine
W Oct 23	Chapter 8. Tobacco and Nicotine
F Oct 25	Chapter 9. Caffeine
M Oct 28	Chapter 9. Caffeine
W Oct 30	Chapter 10. Psychomotor Stimulants
F Nov 1	Chapter 10. Psychomotor Stimulants
M Nov 4	Chapter 10. Psychomotor Stimulants
W Nov 6	Chapter 11. Opiates
F Nov 8	Midterm 2 (Chapter 6, 8, 9, & 10)
Nov 10-16	Term Break No Classes
M Nov 11	Remembrance Day (Observed). University Closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.
M Nov 18	Chapter 11. Opiates
W Nov 20	Chapter 11. Opiates
F Nov 22	Chapter 14. Cannabis
M Nov 25	Chapter 14. Cannabis
W Nov 27	Chapter 14. Cannabis RESEARCH PROPOSAL DUE!
F Nov 29	Chapter 15. Hallucinogens and Club Drugs
M Dec 2	Chapter 15. Hallucinogens and Club Drugs
W Dec 4	Chapter 7. Anxiolytics and Sedative Hypnotics
F Dec 6	Chapter 7. Anxiolytics and Sedative Hypnotics Fall Term Lectures End. Last day to withdraw with permission from Fall Term half courses.
Dec 9-19	Fall Final Exam Period

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

A student who feels that a piece of graded term work (term paper, essay, test, etc.) has been unfairly graded, may have the work reappraised as follows. The student shall discuss the work with the instructor **within ten business days** of being notified about the mark or of the item's return to the class. If not satisfied, the student shall take the matter to the head of the department offering the course **within 2 business days of receiving the decision from the instructor**, who will arrange for a reappraisal of the work **within the next ten business days**. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. Students in

faculties without a departmental structure should take the matter to the dean, or designate, of the faculty offering the course. The result of that reappraisal will be given to the student in writing along with information about appealing the reappraisal.

The reappraisal of graded term work may cause the grade to be raised, lowered or to remain the same. There is no limit to the number of pieces of graded work that a student may request be reappraised, however a single piece of work may only be reappraised once.

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

In the reappraisal of a final grade, the only element that will be considered is the grading of the final assessment that makes up the final mark (e.g., final examination, final project, final paper). An exception may occur when the Instructor of Record evaluates a piece of graded term work at the end of the term; that grade may also be considered in a reappraisal of final grade.

A student seeking a reappraisal of a final grade should first attempt to review the final assessment with the department or faculty offering the course. After which, the student shall obtain a Reappraisal of Final Grade form from ucalgary.ca/registrar (under Student Forms). The student must indicate exactly what error was made in marking the final assessment and/or in computing the final grade. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected.

Students requesting a reappraisal of a final grade must submit their request by the following dates:

Fall Term – March 1

Winter Term – June 30

Spring Intersession – August 15

Summer Term – October 15

Supplemental Examinations: 30 calendar days from the date the examination was written

For information relating to Law, Veterinary Medicine and the Cumming School of Medicine (MD) courses, please refer to the faculty section.

The reappraisal form shall be submitted to Enrolment Services who will forward it to the department head or dean of the faculty offering the course. Reappraisals of final grades are dealt with by the head of the academic unit in consultation with members of academic staff. Normally, the department/faculty will respond to a reappraisal request within thirty calendar days of its initiation. After the reappraisal is completed, the department shall return the form to the Registrar's Office who shall inform the student in writing of the decision.

Students should be aware that the grade being reappraised may be raised, lowered or remain the same. A student may request a reappraisal of final for a maximum of two courses in one academic year (September 1 – August 31).

Plagiarism and Other Academic Misconduct

Intellectual honesty is the cornerstone of the development and acquisition of knowledge and requires that the contribution of others be acknowledged. Consequently, plagiarism or cheating on any assignment is regarded as an extremely serious academic offense. Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Students should examine sections of the University Calendar that present a Statement of Intellectual honesty and definitions and penalties associated with Plagiarism/Cheating/Other Academic Misconduct.

Academic Accommodations

The student accommodation policy can be found at: ucalgary.ca/access/accommodations/policy. Students needing an Accommodation because of a Disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities ucalgary.ca/policies/files/policies/student-accommodation-policy. Students needing an Accommodation based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the instructor.

Seating During Exams

Instructors and exam invigilators are free to ask students to move seats before an exam begins or even during an exam. Students must comply with this request and refusal to do so may warrant a charge of academic misconduct.

Absence From A Test/Exam

Makeup tests/exams are **NOT** an option without the approval of the instructor. A student may be asked to provide supporting documentation for an exemption/special request for a make-up exam <https://www.ucalgary.ca/pubs/calendar/current/n-1.html>. 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 during exam make-up hours provided by the department <http://psychology.ucalgary.ca/undergraduate/exam-and-course-information#mues>.

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).

Freedom of Information and Protection of Privacy (FOIP) Act

The FOIP legislation disallows the practice of having student's retrieve tests and assignments from a public place. Therefore, tests and assignments may be returned to students during class/lab, or during office hours, or will be made available only for viewing during exam review sessions scheduled by the Department. Tests and assignments will be shredded after one year. Instructors should take care to not link students' names with their grades, UCIDs, or other FOIP-sensitive information.

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.

Wellness and Mental Health Resources

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the excellent mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, <https://www.ucalgary.ca/wellnesscentre/services/mental-health-services>) and the Campus Mental Health Strategy website (<http://www.ucalgary.ca/mentalhealth/>).

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

Evacuation Assembly Point

In case of an emergency evacuation during class, students must gather at the designated assembly point nearest to the classroom. The list of assembly points is found at

<http://www.ucalgary.ca/emergencyplan/assemblypoints>

Please check this website and note the nearest assembly point for this course.

Student Organizations

Psychology students may wish to join the Psychology Undergraduate Students' Association (PSYCHS). They are located in Administration 130 and may be contacted at 403-220-5567.

Student Union VP Academic: Phone: 403-220-3911 suvpaca@ucalgary.ca

Student Union Faculty Rep.: arts1@su.ucalgary.ca

Student Ombudsman's Office

The Office of the Student Ombudsmen provides independent, impartial and confidential support for students who require assistance and advice in addressing issues and concerns related to their academic careers. The office can be reached at 403-220-6420 or ombuds@ucalgary.ca (<http://www.ucalgary.ca/provost/students/ombuds>)

Safewalk

The safewalk program provides volunteers to walk students safely to their destination anywhere on campus. This service is free and available 24 hrs/day, 365 days a year.
Call 403-220-5333.

Important Dates

The last day to drop this course with no "W" notation and **still receive a tuition fee refund** is **Thursday, September 12, 2019**. Last day add/swap a course is **Friday, September 13, 2019**. The last day to withdraw from this course is **Friday, December 6, 2019**.