

**PSYC 475 (NEUR 475)**
**Drugs & Behaviour**
**Winter 2018**

<b>Instructor:</b>	Dr. Daniel McGrath	<b>Lecture Location:</b>	SA 235
<b>Phone:</b>	403-220-7268	<b>Lecture Days/Time:</b>	T, TR 3:30-4:45
<b>Email:</b>	mcgrathteach@ucalgary.ca		
<b>Office:</b>	Administration Building 216		
<b>Office Hours:</b>	Thursdays 1:00-3:00		

### 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](http://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

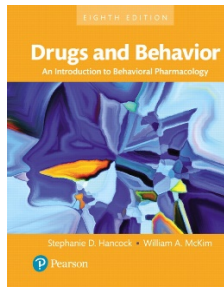
Notes. PLOs = Program-Learning Outcomes: 1 = demonstrate knowledge of psychological sciences, 2 = think critically and solve problems, 3 = conduct research and analyze data, 4 = communicate effectively, 5 = demonstrate information literacy, 6 = understand and implement ethical principles, 7 = apply psychological 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

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) for PSYC 201 (01)**

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 (February 8th)	25%
(2) Midterm Exam #2 (March 13th)	25%
(3) Research Proposal (due April 5th)	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 April 5th
- 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
- Expected length is approximately 10-12 pages double-spaced (excluding title page and references)
- More information on the structure and expectations of the proposal will be provided on the Desire2Learn course page
- 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
- You will NOT be allowed to use any of the following during the test: iPods, iPads, smartphones, computers, books or notes
- 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

Ideally in table format with date of class, topics to be covered, and chapters/readings to be read. Due dates for tests/exams and assignments should be included in this schedule as well.

Date	Topic/Activity/Readings/Due Date (revise and add columns & rows as necessary)
T Jan 9	Introduction to the Course
R Jan 11	Chapter 1. Basic Pharmacology
T Jan 16	Chapter 1. Basic Pharmacology
R Jan 18	Chapter 2. Behavioural Analysis
F Jan 19	Chapter 2. Behavioural Analysis Last day to drop Winter Term half-courses.
M Jan 22	Chapter 3. How we Adapt to Drugs Last day for change of registration from audit to credit or credit to audit.
T Jan 23	Chapter 3. How we Adapt to Drugs
R Jan 25	Chapter 4. Neurotransmitters
T Jan 30	Chapter 4. Neurotransmitters
R Feb 1	Chapter 5. Substance Use and Addictive Disorders
T Feb 6	Chapter 5. Substance Use and Addictive Disorders
R Feb 8	Midterm 1 (Chapter 1, 2, 3, 4, & 5)
T Feb 13	Chapter 6. Alcohol
R Feb 15	Chapter 6. Alcohol
Feb 18-25	Reading Week. No lectures. University open (except Family Day). Alberta Family Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.

M Feb 19	Alberta Family Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.
T Feb 27	Chapter 8. Tobacco and Nicotine
R Mar 1	Chapter 9. Caffeine
T Mar 6	Chapter 10. Psychomotor Stimulants
R Mar 8	Chapter 10. Psychomotor Stimulants
T Mar 13	Midterm 2 (Chapter 6, 8, 9, & 10)
R Mar 15	Chapter 11. Opiates
T Mar 20	Chapter 14. Cannabis
R Mar 22	Chapter 14. Cannabis
T Mar 27	Chapter 7. Anxiolytics and Sedative Hypnotics
R Mar 29	Chapter 13. Antidepressants
F Mar 30	Good Friday. University Closed
T Apr 3	Chapter 13. Antidepressants
R Apr 5	Chapter 15. Hallucinogens and Club Drugs RESEARCH PROPOSAL DUE!
T Apr 10	Chapter 15. Hallucinogens and Club Drugs
R Apr 12	FINAL EXAM REVIEW CLASS – Cumulative
F Apr 13	Winter Term Lectures End. Last day to withdraw from full courses and Winter Term half courses.
Apr 16-26	Winter Term Final Examinations.

### Reappraisal of Grades

A student who feels that a piece of graded term work (e.g., term paper, essay, test) has been unfairly graded, may have the work re-graded as follows. The student shall discuss the work with the instructor within 15 days of being notified about the mark or of the item's return to the class; no reappraisal of term work is permitted after the 15 days. If not satisfied, the student shall immediately take the matter to the Head of the department offering the course, who will arrange for a reassessment of the work within the next 15 days. The reappraisal of term work may cause the grade to be raised, lowered, or to remain the same. If the student is not satisfied with the decision and wishes to appeal, the student shall address a letter of appeal to the Dean of the faculty offering the course within 15 days of the unfavourable decision. In the letter, the student must clearly and fully state the decision being appealed, the grounds for appeal, and the remedies being sought, along with any special circumstances that warrant an appeal of the reappraisal. The student should include as much written documentation as possible.

### 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](http://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](http://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.

### **Absence From A Test/Exam**

Makeup tests/exams are **NOT** an option without an official University medical excuse (see the University Calendar). A completed Physician/Counselor Statement will be required to confirm absence from a test/exam for health reasons; the student will be required to pay any cost associated with this Statement. Students who miss a test/exam have up to 48 hours to contact the instructor and to schedule a makeup test/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. Except in extenuating circumstances (documented by an official University medical excuse), 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 [http://www.ucalgary.ca/registrar/exams/deferred\\_final](http://www.ucalgary.ca/registrar/exams/deferred_final). Under no circumstances will this be accommodated by the department.

### **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 [http://www.ucalgary.ca/registrar/exams/deferred\\_final](http://www.ucalgary.ca/registrar/exams/deferred_final). Under no circumstances will this be accommodated by the department.

### **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.

### **Campus Mental Health Strategy**

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 [suypaca@ucalgary.ca](mailto:suypaca@ucalgary.ca)

**Student Union Faculty Rep.:** [arts1@su.ucalgary.ca](mailto: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](mailto: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 **January 19, 2018**. Last day for registration/change of registration is **January 22, 2018**. The last day to withdraw from this course is **April 13, 2018**.