



<b>PSYC 475(02)</b>	<b>Drugs and Behaviour</b>	<b>Fall 2018</b>
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<b>Instructor:</b>	Dr. Simon Spanswick	<b>Lecture Location:</b>	SH 284
<b>Phone:</b>	403-220-4948	<b>Lecture Days/Time:</b>	TR 14:00 – 15:15
<b>Email:</b>	<a href="mailto:scspansw@ucalgary.ca">scspansw@ucalgary.ca</a>	<b>TA:</b>	TBA
<b>Office:</b>	AD 032		
<b>Office Hours:</b>	Email me to arrange a convenient 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 [psyc.ucalgary.ca/undergraduate/program-learning-outcomes](http://psyc.ucalgary.ca/undergraduate/program-learning-outcomes)), and the expected level of achievement.

<b>Course Learning Outcomes</b>	<b>Assessment Methods</b>	<b>PLO(s)</b>	<b>Level(s)</b>
Explain the mechanisms of drug action	Short answer exams, brief reports, course assignment	1	I
Explain how different drugs interact with nervous system function and influence behaviour	Short answer exams, brief reports, course assignment	1	I
Outline the theories and mechanisms of drug addiction and its treatment	Short answer exams, brief reports, course assignment	1	I
Evaluate methods and findings from behavioural pharmacological studies	Short answer exams, brief reports, course assignment	1,2,5,7	C
Summarize and critically evaluate information regarding behavioural pharmacology	Brief reports, course assignment	1,2,4,5,7	A
Discuss the ethics of drug use/abuse	Brief reports	2,6	C
Evaluate claims made in the media concerning drug use and drug action	Brief reports, course 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, 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

## Recommended Text

*Julien's Primer of Drug Action: A Comprehensive Guide to the Actions, Uses, and Side Effects of Psychoactive Drugs* (14<sup>th</sup> Edition), Advokat CD, Comaty JE, Julien RM (2018), Worth Publishers. The text is available from the university bookstore.

## Assessment Methods

### Exams

Midterm #1 (Lectures 1-8; October 4 <sup>th</sup> ):	25%
Midterm #2 (Lectures 9-16; November 6 <sup>th</sup> ):	25%
Final Exam (Lectures 17-23; TBA):	25%

There will be two midterms for this course, each consisting of several short answer questions. Exam questions may be drawn from lectures and any supplementary reading materials that have been provided. Midterm #1 will be held on October 4<sup>th</sup> and will be worth 25% of your final grade. Midterm #2 will be held on November 6<sup>th</sup> and will also be worth 25% of your final grade. **Midterm #2 will NOT be cumulative.** The final exam will be scheduled by the registrar and is worth 25% of your final grade, it will consist of short answer questions. **The final exam will NOT be cumulative.** Exams 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. **No books, notes, computers, calculators, or cellular phones will be allowed during exam writing.**

### Assignments

Brief Reports (2 total):	10%
Term Project (November 29 <sup>th</sup> ):	15%

There are two brief reports to be completed during the term; each will be worth 5% of your final grade. The first will be assigned in class on September 18<sup>th</sup> and will be due at the beginning of class on September 25<sup>th</sup>. The second will be assigned in class on October 18<sup>th</sup> and will be due at the beginning of class on October 25<sup>th</sup>. Each report should be written in 12-point font, and will require a maximum of 3 double-spaced pages (not including references, or title page). Each report will ask 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 brief reports, including the grading rubric, will be provided in class and posted on D2L.

Your term project is due on November 29<sup>th</sup> via Dropbox in pdf format. Your project should take the form of a digital educational poster designed to inform the public about a particular drug of abuse (e.g. cocaine, nicotine, alcohol, fentanyl, LSD, etc.). A well-balanced poster should not only include

information about the drug itself (history of the drug, chemical structure, mechanism of action, etc.), but also information relating to the implications of abuse, and treatment for addiction. Be sure to include references where appropriate. For more assignment details and the grading rubric please refer to D2L. **All assignments are to be handed in at the beginning of class in paper format, or via Dropbox as outlined above. Late assignments will not be accepted without appropriate documentation.**

### 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
R Sep 6	Introduction to the course. Pharmacokinetics
T Sep 11	Pharmacokinetics
R Sep 13	<i>Last day to drop full courses (Multi-term) and Fall Term half courses. No refunds for full courses (Multi-term) or Fall Term half courses after this date.</i> Pharmacokinetics/Pharmacodynamics
F Sep 14	<i>Last Day to Add Courses</i>
T Sep 18	Pharmacodynamics
R Sep 20	Pharmacodynamics
F Sep 21	<i>Fee payment deadline for Fall Term full and half courses.</i>
T Sep 25	<b>Brief Report #1 due (5% of final grade) Addiction</b>
R Sep 27	Addiction
T Oct 2	Addiction
R Oct 4	<b>Midterm #1 (25% of final grade)</b>
M Oct 8	Thanksgiving Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.
T Oct 9	Alcohol
R Oct 11	Alcohol
T Oct 16	Alcohol
R Oct 18	Caffeine
T Oct 23	Caffeine/Nicotine
R Oct 25	<b>Brief Report #2 due (5% of final grade) Nicotine</b>
T Oct 30	Psychostimulants
R Nov 1	Psychostimulants
T Nov 6	<b>Midterm #2 (25% of final grade)</b>
R Nov 8	Psychedelics
R Nov 11-17	Reading Days. No lectures.
M Nov 12	Remembrance Day (Observed). University Closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.
T Nov 20	Psychedelics
R Nov 22	Psychedelics
T Nov 27	Cannabis
R Nov 29	<b>Term Project due (15% of final grade) Cannabis</b>
T Dec 4	Opioids
R Dec 6	Opioids
F Dec 7	<i>Fall Term Lectures End. Last day to withdraw with permission from Fall Term half courses.</i>
Dec 10-20	<b>Fall Term Exam Period.</b>

### 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 paper re-graded as follows. The student shall discuss the work with the instructor **within fifteen days** of being notified about the mark or of the item's return to the class. If not satisfied,

the student shall **immediately** take the matter to the Director of Undergraduate Studies who will arrange for a reassessment of the work **within the next fifteen days**. Students in faculties without a departmental structure should take the matter to the dean or the associate/assistant dean (Academic/Student Affairs) of the faculty offering the course. The result of that reassessment should be given to the student in writing. ***The reappraisal of term work may cause the grade to be raised, lowered or to remain the same.***

#### **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 wishing 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](http://ucalgary.ca/registrar) (under Student Forms). Students 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 wishing a reappraisal of a final grade (excluding Law courses) 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

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 grade only twice 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 <http://www.ucalgary.ca/pubs/calendar/current/k-5.html>.

### **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.

### **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 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).**

### **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). Students with an exceptional extenuating circumstance (e.g., a family emergency) should contact the Department of Psychology ([psyugrd@ucalgary.ca](mailto: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/>).

### **Course Credits for Research Participation**

#### **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 **September 13, 2018**. Last day to add a course is **September 14, 2018**. The last day to withdraw from this course is **December 7, 2018**.