



Psychology 375 (L02)

Brain and Behaviour

Winter 2015

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Office: Admin 09

Office Hours: By appointment

Lecture Location: ST 141

Lecture Days/Time: MonWeFri/3:00pm –
3:50pm

Course Description and Goals

The neural basis of learning, memory, language and thinking, as well as pathological, sexual, aggressive, and emotional behaviour that arises from neural and hormonal malfunctioning.

This course may not be repeated for credit.

Prerequisites

Psychology 200

Antirequisites: Not open to students with credits in Psychology 371

Required Text

Biological Psychology: An Introduction to Behavioral, Cognitive, and Clinical Neuroscience. 7th Edition (2013), by S.M. Breedlove and N.V. Watson (Sinauer Associates, Inc.). May be purchased at the bookstore or online (<http://www.sinauer.com/biological-psychology-an-introduction-to-behavioral-cognitive-and-clinical-neuroscience-854.html>)

Suggested supplemental reading (not compulsory): Biological Psychology, by James W. Kalat, 11th/ 12th Edition; An introduction to Brain and Behaviour, by Kolb and Whishaw, 4th Edition. Copies might be available at the bookstore, or online

(<http://www.cengage.com/search/showresults.do?N=16&Ntk=APG&Ntt=biological%20psychology&Ntx=mode+matchallpartial> for Kalat, <http://bcs.worthpublishers.com/kolbintro4e> for Kolb and Whishaw), a few copies of earlier editions may be available at the library.

Evaluation

There will be 5 quizzes spread throughout the course **ON RANDOM DATES**. Each quiz will be worth 4% of your final grade (for a total of 20%). These quizzes will test you on the prior days' lecture material, and are designed to keep you up to date with the course material. Quizzes will be conducted at the beginning of the lecture, and will consist of 1 to 2 short answer questions. Please ensure that you have a writing utensil with you at the beginning of each class.

There are 3 exams for this course; the two midterms will consist of multiple choice questions and a few very short answer questions. Questions can be drawn from lecture material and the assigned textbook chapters. Midterm #1 will be held on February 25 and is worth 25% of your final grade (relevant portions from Chapters 1-8). Midterm #2 is scheduled for April 8 (Relevant portions from Chapters 7-10, 14-18) 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 30% of your final grade. It will include multiple choice and short answer questions. The final exam **will include specific questions based on the material taught throughout the year, with emphasis on the material taught between Midterm#2 and the last class.** Quizzes and exams will be graded using a similar format. 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/quiz writing.** In the event of missing **more than one** quiz due to extenuating circumstances, a make-up quiz/ presentation may be arranged at the discretion of the instructor.

Department of Psychology Grade Distribution Policy

The distribution of grades in Psychology courses (the percentage of A grades, B grades, etc.) will be similar to the distribution of grades in other courses in the Faculty of Arts. The Department monitors the grade distributions of 200-, 300-, and 400-level courses in the Faculty to ensure that the grade distributions in Psychology courses are comparable. Based on these reviews, students can expect that 1) up to 30% of grades in 200- and 300-level psychology courses will be "A" grades (A+, A, and A-), and 2) up to 40% of grades in 400-level psychology courses will be "A" grades.

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

Note to students: this is a tentative schedule only, and course elements may be added or shifted to different dates during the course. The dates of the midterms are final. **Dates of the short quizzes (total 5) will be RANDOM**

Date	Topic/Activity/Readings/Due Date
M Jan 12	Winter term lectures begin. Introduction (Ch. 1)
W Jan 14	Evolution of the Brain (Ch. 6)
F Jan 16	Evolution of the Brain (Ch. 6)
M Jan 19	Neuroanatomy (Ch. 2)
W Jan 21	Neuroanatomy (Ch. 2)
F Jan 23	Last day to drop Winter Term half-courses. Neurophysiology (Ch. 3)
M Jan 26	Last day to add or swap Winter Term half courses. Last day for change of registration from audit to credit or credit to audit. Neurophysiology (Ch. 3)
W Jan 28	Neurotransmission (Ch. 3 and 4)
F Jan 30	Fee payment deadline for Winter Term fees. Neurotransmission (Ch. 4)
M Feb 2	Drugs and Behaviour (Ch. 4)
W Feb 4	Drugs and Behaviour (Ch. 4)
F Feb 6	Development (Ch. 7)
M Feb 9	Development (Ch. 7)
W Feb 11	Touch and Pain (Ch. 8)
F Feb 13	Hormones and the Brain (ch. 5)
Feb 15-22	Reading Week. No lectures. University open (except Family Day).
M Feb 16	Alberta Family Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.
M Feb 23	Hormones and the Brain (Ch. 5)

W Feb 25	Revision (Ch. 1-8) Midterm #1 (Ch.1 -8)
F Feb 27	Hearing (Ch. 9)
M Mar 2	Hearing (Ch. 9)
W Mar 4	Vestibular Perception, chemical senses (Ch. 9)
F Mar 6	Vision (Ch. 10)
M Mar 9	Vision (Ch. 10)
W Mar 11	Vision (Ch. 10)
F Mar 13	Biological Rhythms (Ch. 14) Brain Plasticity (Ch .18)
M Mar 16	Sleep (Ch. 14)
W Mar 18	Aggression and Stress (Ch. 15)
F Mar 20	Emotions (Ch. 15)
M Mar 23	Schizophrenia (Ch. 16)
W Mar 25	Mood Disorders (Ch. 16)
F Mar 27	Ageing and Dementia (Ch. 7, 17, 18)
M Mar 30	Memory (Ch. 17)
W Apr 1	Memory (Ch. 17)
F Apr 3	Good Friday University Closed
M Apr 6	Circadian anatomy (Ch. 14)
W Apr 8	Brain Plasticity (Ch. 18) Midterm #2 (Ch. 7-10, 14-18)
F Apr 10	Language and Cognition (Ch. 19)
M Apr 13	Language and Cognition (Ch. 19)
W Apr 15	From across all chapters covered (Ch 1 -19). Winter Term Lectures End. Last day to withdraw from full courses and Winter Term half courses.
Apr 18-29	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 Accommodation

It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodation and have not registered with the Disability Resource Centre, please contact their office at 403-220-8237. Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than 14 days after the start of this course.

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 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. In the case of extenuating circumstances, the makeup test or exam may constitute of a take-home test, class/ public presentation or a written exam, or a combination of any of these or other formats.

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 except under exceptional circumstances. Students are advised to wait until the final examination schedule is posted before making any travel arrangements.

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 via the Department Office (Admin 255), 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.

Course Credits for Research Participation (Max 2% of final grade)

Students in most psychology courses are eligible to participate in Departmentally approved research and earn credits toward their final grades. **A maximum of two credits (2%) per course, including this course, may be applied to the student's final grade. Students earn 0.5% (0.5 credits) for each full 30 minutes of participation.** The demand for timeslots may exceed the supply in a given term. Thus, students are not guaranteed that there will be enough studies available to them to meet their credit requirements. Students should seek studies early in the term and should frequently check for open timeslots. Students can create an account and participate in Departmentally approved research studies at <http://ucalgary.sona-systems.com>. The last day to participate in studies and to assign or reassign earned credits to courses is **April 15, 2015**.

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 170 and may be contacted at 403-220-5567.

Student Union VP Academic: Phone: 403-220-3911 [suyaca@ucalgary.ca](mailto:suypaca@ucalgary.ca)

Student Union Faculty Rep.: Phone: 403-220-3913 socialscirep@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.su.ucalgary.ca/services/student-services/student-rights.html>).

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 23rd, 2015**. Last day for registration/change of registration is **January 26th, 2015**. The last day to withdraw from this course is **April 15th, 2015**.