

PSYC 375		Brain and Behaviour		Winter 2023	
<b>Instructor:</b>	Dr. Derya Sargin	<b>Lecture Location:</b>	ES 162		
<b>Phone:</b>	403-2204349	<b>Lecture Days/Time:</b>	TR 12:30pm-1:45pm		
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<b>Office:</b>	AD16				
<b>Office Hours:</b>	By appointment, Email to arrange time				

### Course Description

The task of behavioural neuroscience is to explain behaviour in terms of the activities of the brain. This course explores a wide variety of topics that may include the neural basis of learning, memory, sensation, and thinking, as well as behavioural and neurodegenerative disorders that arise from nervous system malfunction.

### 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)
Describe the major structures of the brain and explain their general function.	Exams	1,2	I
Outline the basics of neural communication (neurotransmitters, the action potential, etc.).	Exams	1,2	I
Illustrate the relationship between nervous system dysfunction and disease states (Alzheimer's disease, depression, etc.)	Exams, written assignment	1,2	I
Compare and contrast the usefulness of different species, techniques, and levels of analysis for studying brain and behaviour.	Exams, written assignment	1,2,6	C,I
Demonstrate scientific writing skills	Written assignment	1,4,5	C,I

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

Psyc 200 – Principles of Psychology

## Required Text

An Introduction to Brain and Behavior (any edition), B. Kolb, I.Q. Whishaw, and G.C. Teskey. Worth Publishers. The text is available from the university bookstore and as an eBook.

## Assessment Methods

Midterm Exam #1 (Lectures 1-7; February 2):	25%
Midterm Exam #2 (Lectures 8-15; March 14):	25%
Written Assignment (due March 23)	20%
Final Exam (Lectures 16-23; TBA):	30%

### Exams:

There will be two midterms for this course, each consisting of multiple-choice questions. Exam questions may be drawn from lectures and any supplementary reading materials that have been provided. Midterm #1 will be held on February 2nd and will be worth 25% of your final grade. Midterm #2 will be held on March 14 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.**

**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 and will be due on March 23rd. It should be written in 12-point font, and will be 2 pages in length (not including references, or title page). Your task is to find a current news article describing research about the brain, and compare it to the original source while relating it back to our discussion of brain and behaviour in the classroom. 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. **Late assignments will not be accepted without the instructor's approval.**

## 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/legal-services/sites/default/files/teams/1/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)
T Jan 10	First day of TR lectures Lecture 1-Introduction
R Jan 12	Lecture 2-Chapter 1
T Jan 17	Lecture 3-Chapter 1
R Jan 19	Lecture 4-Chapter 1 <i>Last day to drop a class without financial penalty</i>
Jan 20	<i>Last day to add or swap a course</i>
T Jan 24	Lecture 5-Chapter 2
R Jan 26	Lecture 6-Chapter 2
Jan 27	<i>Fee payment deadline for Fall Term full and half courses.</i>
T Jan 31	Lecture 7-Chapter 2
R Feb 2	<b>Midterm 1 (Ch 1, 2)</b>

T Feb 7	Lecture 8-Chapter 3
R Feb 9	Lecture 9-Chapter 3
T Feb 14	Lecture 10-Chapter 3
R Feb 16	Lecture 11-Chapter 4
Feb 20	UNIVERSITY CLOSED Alberta Family Day
Feb 19-25	Term Break
T Feb 28	Lecture 12-Chapter 4
R Mar 2	Lecture 13-Chapter 5
T Mar 7	Lecture 14-Chapter 5
R Mar 9	Lecture 15-Chapter 5
T Mar 14	<b>Midterm 2 (Ch 3, 4, 5)</b>
R Mar 16	Lecture 16-Chapter 6
T Mar 21	Lecture 17-Chapter 6
R Mar 23	Lecture 18-Chapter 6 <b>Written Assignment due</b>
T Mar 28	Lecture 19-Chapter 6
R Mar 30	Lecture 20-Chapter 6
T Apr 4	Lecture 21-Chapter 7
R Apr 6	Lecture 22-Chapter 7
Apr 7	UNIVERSITY CLOSED Good Friday
Apr 10	UNIVERSITY CLOSED Easter Monday
T Apr 11	Lecture 23-Chapter 7
Apr 12	<i>Fall Term Lectures End. Last day to withdraw with permission from Fall Term half courses.</i>
Apr 15-26	<b>Final Exam (Ch 6, 7)</b> Final Exam Period

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

### Absence From Test/Exam

Makeup tests/exams are **NOT** an option without the approval of the instructor

<https://www.ucalgary.ca/pubs/calendar/current/g-1-1.html> 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 [Deferred Final Exams | University of Calgary \(ucalgary.ca\)](#) Students with an exceptional extenuating circumstance (e.g., a family emergency) should contact the Department of Psychology [psyugrd@ucalgary.ca](mailto: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/](http://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 [University of Calgary : B.6.1 Accommodation of Students with Disabilities or Medical Conditions \(ucalgary.ca\)](#)

### **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 (<https://www.ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy> ) 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, January 19, 2023**. Last day add/swap a course is **Friday, January 20, 2023**. The last day to withdraw from this course is **Wednesday, April 12, 2023** [University of Calgary : Academic Schedule \(ucalgary.ca\)](#)