

PSYC 375-1	Brair	Winter 2021	
Instructor: Phone:	Michael Antle 403-220-2574	Lecture Location: Lecture Days/Time:	Online ZOOM + D2L TR12:30-1:45
Email: Office: Office Hours:	antlem@ucalgary.ca A018 By appointment, contact p	rof by email to schedule	

Course Description

The task of behavioural neuroscience is to explain behavior 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	Exams, quizzes, online	1	1
general function.	activities		
Outline the basics of neural communication (neurotransmitters,	Exams, quizzes, online	1	1
the action potential, etc.).	activities		
Illustrate the relationship between nervous system dysfunction	Exams, quizzes, online	1	1
and disease states (Alzheimer's disease, depression, etc.).	activities		
Compare and contrast the usefulness of different species,	Exams, quizzes, online	1,2,6	С,І
techniques, and levels of analysis for studying brain and behavior.	activities		
Critically evaluate information presented in the media regarding	Media assignment	2,4,5,7	C,I
brain and behavior.			

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 course will use a hybrid format. Some lectures will be taught live via Zoom during each scheduled class as marked by asterisks in the course schedule below and will be recorded and posted to D2L after class. Other class materials will be posted to the course D2L page by the day/time of each scheduled class as per the course schedule.

Prerequisites

Psyc 200 – Principles of Psychology

Required Text

An Introduction to Brain and Behaviour (6th Edition), B. Kolb, I.Q. Whishaw, and G.C. Teskey (2018), Worth Publishers. The text is available from the university bookstore and as an eBook.

Assessment Methods

1. Quizzes			15%
Quiz 1	Jan 21 st	Ch 1,2	5%
Quiz 2	Feb 25 th	Ch 4,5	5%
Quiz 3	Mar 30 th	Ch 9,10	5%

There will be 3 quizzes spaced throughout the course (Jan 21st, Feb 25th, Mar 30th); **each quiz is worth 5% of your final grade (15% total)**. The quizzes will be available on D2L for 24 hours starting at 9:30am on the date scheduled to access but will have a limit of 30 minutes to complete once started (this is based on the 20 min plus 50% to allow for any technological issues). The quizzes will test you on the lecture material that has been covered since the last assessment and are designed to keep you up to date with the course material. Each quiz will consist of 5-10 multiple choice, true/false, fill-in-the-blank, short answer, matching, or ordering questions. Quizzes must be completed within the 24-hour window; failure to do so without instructor approval will result in a grade of zero. Students with Academic Accommodations should contact me to make appropriate adjustments.

2. Exams			70%
Midterm #1	Feb 2 nd	Ch. 1-3, 7	20%
Midterm #2	Mar 11 th	Ch. 4-7	20%
Final Exam	Exam Period	Ch. 7, 9-11, 13	30%

There will be 3 exams spaced throughout the course; midterms 1 & 2 (Feb 2nd and March 11th) are worth 20% each and the final exam is worth 30% of your final grade (70% total). The exams will test you on the lecture material that has been covered in each section of the course. <u>Exams are not</u> <u>cumulative (except for chapter 7 which will be covered on all exams)</u>, but you may need to understand concepts from earlier in the course to answer questions on midterm 2 and the final exam. The midterm exams will be available on D2L for 24 hours starting at 12:30pm on the date scheduled to access but will have a limit of 112.5 minutes to complete once started (this is based on the original 75 min class plus 50% to allow for any technological issues). The midterms will consist of approximately 60 multiple choice, true/false, fill-in-the-blank, short answer (1-2 words), matching, or ordering questions.

The final exam will be scheduled by the registrar. It will consist of multiple choice and short answer (a few words to a few sentences) questions. Without instructor approval, exams must be completed

within the time window specified; failure to do so will result in a grade of zero. Students with Academic Accommodations should contact me to make appropriate adjustments.

Exams and quizzes 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. Students may not communicate with others about course material or the exam either in person

3. Online learning activities

10%

There are practice quizzes on D2L for each chapter. You will earn 1% for each chapter quiz successfully completed. To successfully complete the quiz, you will need to earn a minimum of %70. You have up to 10 attempts to earn a grade of %70 on the quiz. When this threshold is achieved, you will earn you the full 1%.

The Practice Quizzes are listed on the lecture schedule with a PQ#, where the # is the chapter due.

	Jan 20	
Chapter 2	Jan 26	
Chapter 3	Feb 1	Day before Midterm 1
Chapter 4	Feb 23	
Chapter 5	Mar 2	
Chapter 6	Mar 10	Day before Midterm 2
Chapter 9	Mar 25	
Chapter 10	Apr 1	
Chapter 11	Apr 8	
Chapter 13	Apr 15	Last day of class

4. Media project	April 1 st	Submit to D2L Dropbox	<u>5%</u>
		-	

Your goal is to find and read a current news article describing research about the brain, and compare it to the original source, as well as relate it back to our discussion of brain and behaviour in the classroom. Further details regarding the assignment will be provided in class and posted on D2L. Late papers will not be accepted without approved documentation. The written assignment should be two pages in length (not including the reference section or title page). There are no marks for formatting or style, instead we are interested in your assessment of the media and scientific articles. Excellent sources to help you find media stories include major media outlets such as http://cbc.ca and https://npr.org as well as science digest sites such as https://www.biopsychology.com/news/. Do not use science digest sites as the media atticle they link to.

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/policies/files/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%
А	90-95%	В	76-79%	С	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	Live?	Торіс	Assessment	Chapter		
M Jan 4-8		Winter term begin, Block Week Courses				
T Jan 12	Y	Introduction to Brain, Behaviour, and Evolution		1,7		
R Jan 14		Introduction to Brain, Behaviour, and Evolution		1		
T Jan 19	Y	Neuroanatomy		2		
W Jan 20			PQ1			
R Jan 21		Neuroanatomy	Quiz1	2		
		Last day to drop a class without financial penalty				
F Jan 22		Last day to add or swap a course				
T Jan 26	Y	Cells of the nervous system	PQ2	3		
R Jan 28		Cells of the nervous system		3		
F Jan 29		Tuition Fee Deadline				
M Feb 1			PQ3			
T Feb 2	Y		Mid Term 1			
R Feb 4		How neurons communicate		4,7		
T Feb 9	Y	How neurons communicate		4		
R Feb 11		How neurons communicate		4 + 5		
Feb 14-20		Reading Week. No lectures. University open (e	xcept Family Da	y).		
M Feb 15		Alberta Family Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.				
T Feb 23	Y	How neurons communicate	PQ4	5		
R Feb 25		How neurons communicate	Quiz 2	5		
T Mar 2	Y	Drugs and hormones	PQ5	6		
R Mar 4		Drugs and hormones		6		
T Mar 9	Y	Drugs and hormones		6		
W Mar 10			PQ6			
R Mar 11			Mid Term 2			
T Mar 16	Y	Sensation + Perception		9,7		
R Mar 18		Sensation + Perception		9		
T Mar 23	Y	Sensation + Perception		9,10		
R Mar 25		Sensation + Perception	PQ9	10		
T Mar 30	Y	Sensation + Perception	Quiz 3	10		
R Apr 1		Movement	PQ10	11		
F Apr 2		Good Friday	-			
M Apr 5		Non-Instructional Day, University Open				
T Apr 6	Y	Movement		11		
R Apr 8		Sleep and rhythms	PQ11	13		
T Apr 13	Y	Sleep and rhythms		13		
R Apr 15	Y	Review and Q&A session	PQ13			
Apr 19-29		Final Exam Period	Final Exam	7,9,10,11,13		
Apr 30	-	End of Term		,-, ,,,_0		

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

Absence From A Test/Exam

Makeup tests/exams are **NOT** an option without the approval of the instructor. 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 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 <u>https://www.ucalgary.ca/registrar/exams/deferred-exams</u>.

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

<u>https://www.ucalgary.ca/registrar/exams/deferred-exams.</u> Students with an exceptional extenuating circumstance (e.g., a family emergency) should contact the Department of Psychology (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/. 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

http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf.

Academic Misconduct

For information on academic misconduct and its consequences, please see the University of Calgary Calendar at <u>http://www.ucalgary.ca/pubs/calendar/current/k.html</u>

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 (<u>www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf</u>) and requirements of the copyright act (<u>https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html</u>) 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 21, 2021.** Last day add/swap a course is **Friday**, **January 22, 2021.** The last day to withdraw from this course is **Thursday**, **April 15, 2021** <u>https://www.ucalgary.ca/pubs/calendar/current/academic-schedule.html</u>