

DEPARTMENT OF PSYCHOLOGY Faculty of Arts

PSYC 375 Brain and Behaviour Spring 2020

Instructor: Sarah Thackray, MSc. Lecture Location: Online D2L

Phone: 403-220-3769 Lecture Days/Time: N/A

Email: sthackra@ucalgary.ca Materials will be provided

on D2L

Office: N/A

Office Hours: By appointment, email

to arrange a time

Revised dates are highlighted in yellow

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 psyc.ucalgary.ca/undergraduate/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	1	1
general function.			
Outline the basics of neural communication (neurotransmitters,	Exams, quizzes	1	1
the action potential, etc.).			
Illustrate the relationship between nervous system dysfunction	Exams, quizzes	1	1
and disease states (Alzheimer's disease, depression, etc.).			
Compare and contrast the usefulness of different species,	Exams, quizzes	1,2,6	C,I
techniques, and levels of analysis for studying brain and behavior.			
Critically evaluate information presented in the media regarding	Discussion posts	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, 7 = apply psychological knowledge and skills. Level of PLO achievement facilitated by this course: I = introductory, C = competency, A = advanced.

Prerequisites

Psychology 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

Quizzes (3 total):	15%
Discussion posts (minimum 6 posts + 6 responses):	15%
Midterm #1 (Ch. 1-3; May 19-21):	20%
Midterm #2 (Ch. 4-6; June 2-4):	20%
Final Exam (Ch. 7, 11, 13, 14; June 19-20):	30%

The course is divided into 3 sections; each section has a quiz and an exam and requires a minimum of 2 discussion posts with 2 responses.

Quizzes:

There will be 3 quizzes spaced throughout the course; each quiz is worth 5% of your final grade (15% total). The quizzes will be available on D2L for 3 days to access but will have a limit of 40 minutes to complete once started. 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 (1-2 words), matching, or ordering questions. Quizzes must be completed within the 3-day 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.

A number of not-for-credit quizzes will also be provided on D2L (usually ~2 per chapter). These are optional resources for you to test your knowledge and do not count towards your final grade.

Discussion posts:

The class will be randomly divided into groups of ~5 students for discussion posts – you are only responsible for reading and responding to those in your group. The purpose of the discussion posts is to engage with course material by examining articles/videos related to topics discussed in the course and thinking critically about the material. For each section of the course, a minimum of 2 discussion posts and 2 responses to other students' discussion posts are required. The posts from each section will be worth 5%, for a total of 15%. Posts will be graded based on a rubric (see D2L) that includes relevancy of the post (does the post relate to something discussed in class for the specific section?), timeliness of posts (are posts and responses spread out across the section or posted within a short period of time?), and mechanics of the post (are the posts grammatically correct and readable?). Each post should be 1-2 paragraphs and include a question that other students can respond to; each response should be a minimum of 1-2 sentences and add to the discussion (i.e. should be more than "I agree."). Guidance for how to write and respond to posts will be provided on D2L. A list of possible topics and links will be provided for each section of the course, but you are welcome to find your own sources as well. Without instructor approval, discussion posts/responses created 1-3 days past the deadline will receive a lower grade on the timeliness aspect of the rubric; without instructor approval, discussion posts/responses created more than 3 days past the deadline will receive a grade of zero. Discussion posts created after June 24 will not be graded.

Exams:

There will be 3 exams spaced throughout the course; midterms 1 & 2 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. Exams are not cumulative, 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 3 days to access but will have a limit of 75 minutes to complete once started. The midterms will consist of approximately 50 multiple choice, true/false, fill-inthe-blank, short answer (1-2 words), matching, or ordering questions.

The final exam will be posted as a word document on D2L on June 19 and is due to the D2L dropbox by 5:30pm June 20. It is an open book, take home exam consisting 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.

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%
Α	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

Lecture materials (lecture videos, relevant links, etc.) will be posted on D2L at the beginning of every week (Monday morning).

Date	Topic/Activity	Readings
W May 6	Spring term lectures begin	
W May 6	Introduction to course	Chapter 1
	What are the Origins of Brain and Behaviour?	
M May 11	What are the Origins of Brain and Behaviour? Cont'd	Chapter 1
	What is the Nervous System's Functional Anatomy?	Chapter 2
	What are the Nervous System's Functional Units?	Chapter 3
T May 12 – R May 14	Quiz 1	Chapter 1 and
		Chapter 2 Parts
		1&2
F May 15	Suggested deadline for 1st discussion post (Section 1)	
T May 12	Last day to drop classes without penalty and last day to	
	add or swap classes.	
M May 18	Victoria Day UNIVERSITY CLOSED	
T May 19	What are the Nervous System's Functional Units? Cont'd	Chapter 3
	How do Neurons Use Electrical Signals to Transmit	Chapter 4
	Information?	
T May 19 – R May 21	Exam 1	Chapter 1, 2, 3
F May 22	Section 1 Discussion posts due	
M May 25	Section 1 Discussion responses due	
	How Do Neurons Communicate and Adapt?	Chapter 5
	How Do Drugs and Hormones Influence Brain and	Chapter 6
	Behaviour?	

T May 26 – R May 28	Quiz 2	Chapter 4 and
		Chapter 5 part 1
F May 29	Suggested deadline for 1 st discussion post (Section 2)	
M Jun 1	How Do Drugs and Hormones Influence Brain and	Chapter 6
	Behaviour? Cont'd	
	How Do We Study the Brain's Structures and Functions?	Chapter 7
T Jun 2 – R Jun 4	Exam 2	Chapters 4, 5, 6
F Jun 5	Section 2 Discussion posts due	
M Jun 8	Section 2 Discussion responses due	
	How Does the Nervous System Respond to Stimulation	Chapter 11
	and Produce Movement?	Chapter 13
	Why Do We Sleep and Dream?	
T Jun 9 – R Jun 11	Quiz 3	Chapter 7
F Jun 12	Suggested deadline for 1 st discussion post (Section 3)	
M Jun 15 – W Jun 17	How Do We Learn and Remember?	Chapter 14
W Jun 17	End of Spring Lectures and last day to withdraw from a	
	course.	
F Jun 19	Start of Spring Final Exams	
F Jun 19	Final exam available	Chapters 7, 11,
	Section 3 Discussion posts due	13, 14
Sat Jun 20	Final Exam due at 5:30pm	
Sun Jun 21	Section 3 Discussion responses due	
T Jun 23	End of Spring Final Exams	

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 June 17, 2020.

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 the approval of the instructor. A student may be asked to provide supporting documentation for an exemption/special request for a make-up exam https://www.ucalgary.ca/pubs/calendar/current/m-1.html. . Students who miss a test/exam have up to 24 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 24-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 1 week 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 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 June and August 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 https://www.ucalgary.ca/registrar/exams/deferred-exams.
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 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 (www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf) 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

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.

Important Dates

The last day to drop this course with no "W" notation and **still receive a tuition fee refund** is **Tuesday**, **May 12, 2020**. Last day for registration/change of registration is **Tuesday**, **May 12, 2020**. The last day to withdraw from this course is **Monday**, **June 17, 2020**.