

PSYC 479
Human Neuropsychology
Winter 2022
Instructor: Trudi Chalmers

Lecture Location: Use these columns

Phone: 403- 815-5393

Lecture Days/Time: TR

Email:
TA Name:
TA Email:
Office:
Office Hours:

Course Description

This course will integrate literature on human neuropsychology, neuroimaging, and behavioral neuroscience to highlight research on human cognitive function and dysfunction. Course materials (lectures and textbook) provide a general introduction to neuroanatomy, brain development, cerebral organization, and research methods used by neuropsychologists. Other major topics include specific areas of cognitive functioning, their neural substrates, and related disorders (e.g., attention and neglect; memory and amnesia; language and aphasia).

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 neuropsychological approaches to understanding brain-behaviour relationships	Midterms and final exam	1	
Apply knowledge about human neuropsychological functioning to clinical case studies	Midterms and final exam	1,2,5,7	
Identify neuroanatomical structures and describe their relationship to behavior and psychological functions	Midterms and final exam, Team assignment	1,4,7	
Describe how various cognitive disorders result from changes or damage to the human brain	Midterms and final exam, Team assignment	1	
Critically evaluate and communicate empirical findings of neuropsychological studies to the general population	Team Presentation	1,4,5,7	

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

Psych 312 – Experimental Design and Quantitative Methods for Psychology and Psych 375 – Brain and Behaviour and admission to the Psychology major or Honours program.

Required Text

Kolb & Whishaw (2021), Fundamentals of Human Neuropsychology, Eighth Edition. Hard copies and electronic copies are available at the University Bookstore. Please speak to me if you are unable to procure the textbook for any reason.

Assessment Methods

Course Component	Weighting	Due Date
Midterm 1 Chapters: 1, 2, 3, 8, 10, 11, 12, 13 Case studies, short answer, and long answer	20%	February 1
Midterm 2 Chapters: 9, 14, 15, 16, 17, 21 Case studies, short answer, and long answer	20%	March 8
Final Exam Chapters: 18, 19, 20, 23, 24, 25, 26, 27 as well as material from team presentations Case studies, short answer, and long answer	30%	April – TBD
Team Assignment	15%	March 17
Team Presentation	15%	March 29 – April 7

Midterms and Final Exam

Midterm 1 (worth 20% of the final grade; February 1), Midterm 2 (worth 20% of the final grade; March) and final exam (worth 30% of the final grade; date TBD,) will be based on lecture material, textbook and supplemental readings. Midterms will take the entire class time, and no lectures will be given.

Midterm 1: This timed assessment will be available on D2L at the beginning of class on February 1, 2022 and will be available for 24 hours. When you access the assessment, you will have the length of the class [i.e., 75 minutes] to complete and submit it. This assessment will consist of case studies, short answer, and essay questions. If you experience an issue that affects your ability to complete the assessment, which can include (but is not limited to) issues with technology, caregiving responsibilities, or distractions within your test-taking environment, you will need to contact your instructor as soon as possible to arrange an alternate or (in the case of technical issues) extended time to write the assessment.

Midterm 2: This assessment will take place during the regular scheduled class time. Students will have the entire class time to complete the assessment. This assessment will take place in person, in class.

Midterms and Final Exam will be non-cumulative. However, knowledge from earlier sections of the course may be necessary to answer certain questions on later exams.

Refer to *Absence from an exam* section in case of absence from midterms or final exam. The test will be designed to be completed within the allotted class time.

Team Assignment

In this assignment, students are asked to work in groups of 4 to prepare a podcast on a neuropsychological disorder. Each group can choose from any of the neuropsychological disorders discussed in class or the textbook. The ability to critically evaluate empirical findings and communicate them to the general public is important for scientists. Therefore, the purpose of this assignment is to encourage critical evaluation of research findings and presentation of such findings in the form of a podcast intended for the general public. The Team Assignment will be evaluated according to the written manuscript of the podcast. This assignment is worth 15% of the final grade. Without instructor approval, late assignments will be penalized 10% per day, including weekends.

Evaluation criteria, resources and discussion regarding how to prepare an effective infographic will be available on D2L after week 2. Assignments are worth 15% and are due March 17, 2022 (5pm MT). One student from the group will email the assignment to the instructor. Without instructor approval, late assignments will be penalized 10% per day, including weekends.

Team Presentations

Students will present their podcast live to the class. The ability to present complex information in a clear and approachable way to the general public is important for scientists. The purpose of this assignment is to formally present well researched, clear, and engaging neuroscience topics to a lay audience. Evaluation criteria will be available on D2L after week 2. Presentations are worth 15% of the final grade and students will draw to determine which date the presentation will occur. Peer evaluation according to the evaluation criteria will also be considered in the final grade of the presentation. Without instructor approval, students absent on the day of their presentation will receive a mark of 0. Extraneous circumstances will be considered by the instructor on a student by student basis.

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%
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 11	First day of lectures Lecture: Introduction (Ch. 1, 2, 3)
R Jan 13	Lecture: Chapters 1, 2, 3
T Jan 18	Lecture: Chapters 10 – Principles of Neocortical Function
R Jan 20	Last day to drop a class without financial penalty Lecture: Chapters 11, 12 – Cerebral Asymmetry; Individual Differences in Cerebral Organization
F Jan 21	Last day to add or swap a course Lecture: Chapter 8 – Organization of the Sensory System
T Jan 25	Lecture: Chapter 13 – The Occipital Lobes and Networks
R Jan 27	Lecture: Chapter 9 – Organization of the Motor System
F Jan 28	Fee payment deadline for Fall Term full and half courses.
T Feb 1	Midterm: multiple choice and short answer (Chapters 1, 2, 3, 8, 10, 11, 12, 13) (20%)
R Feb 3	Lecture: Chapter 14 – The Parietal Lobes and Networks
T Feb 8	Lecture: Chapter 15 – The Temporal Lobes and Networks
R Feb 10	Lecture: Chapter 21 – Spatial Behavior
T Feb 15	Lecture: Chapter 16 – The Frontal Lobes and Networks
R Feb 17	Lecture: Chapter 17 – Cortical Networks and Disconnection Syndromes
M Feb 21	Family Day no Classes
Feb 22-26	Term Break No Classes
T Mar 1	Lecture: Chapter 18 – Learning & Memory
R Mar 3	Lecture: Chapter 19 Language
T Mar 8	Midterm: multiple choice and short answer (20%) (Chapters 9, 14, 15, 16, 17, 21)
R Mar 10	Lecture: Chapter 20 – Emotion and the Social Brain
T Mar 15	Lecture: Chapter 23 – Brain Development and Plasticity
R Mar 17	Lecture: Chapter 24 – Neurodevelopmental Disorders Team Project – Infographic – Due for everyone
T Mar 22	Lecture: Chapter 25 – Plasticity, Recovery, and Rehabilitation of the Adult Brain
R Mar 24	Lecture: Chapter 26 – Neurological Disorders
T Mar 29	Lecture: Chapter 27 – Psychiatric and Related Disorders
R Mar 31	Student Team Presentations (15%) – infographic (15%) (20 minutes/team)
T Apr 5	Student Team Presentations
R Apr 7	Student Team Presentations

T Apr 12	Last day of Lectures and last day to withdraw from a winter term half course Lecture: Questions/Discussion/Final Exam Prep
Ap 19-29	Fall Final Exam Period (30%) (Chapters 18, 19, 20, 23, 24, 25, 26, 27 as well as material from team presentations)

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

Supporting Documentation

Students may be asked to provide supporting documentation for an exemption/special request. This may include, but is not limited to, a prolonged absence from a course where participation is required, a missed course assessment, a deferred examination, or an appeal. Students are encouraged to submit documentation that will support their situation. Supporting documentation may be dependent on the reason noted in their personal statement/explanation provided to explain their situation. This could be medical certificate/documentation, references, police reports, invitation letter, or a statutory declaration, etc. The decision to provide supporting documentation that best suits the situation is at the discretion of the student. Students cannot be required to provide specific supporting documentation, such as a medical note.

Students can make a Statutory Declaration as their supporting documentation (available at ucalgary.ca/registrar). This requires students to make a declaration in the presence of a Commissioner for Oaths. It demonstrates the importance of honest and accurate information provided and is a legally binding declaration. Several registered Commissioners for Oaths are available to students at no charge, on campus, please see ucalgary.ca/registrar.

Falsification of any supporting documentation will be taken very seriously and may result in disciplinary action through the Academic Discipline regulations or the Student Non-Academic Misconduct policy.

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 <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 <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 <https://www.ucalgary.ca/legal-services/university-policies-procedures/accommodation-students-disabilities-procedure>.

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>

Important Dates

The last day to drop this course with no "W" notation and **still receive a tuition fee refund** is **Thursday, Thursday, January 20, 2022**. Last day add/swap a course is **Friday, January 21, 2022**. The last day to withdraw from this course is **Tuesday, April 12, 2022**.

<https://www.ucalgary.ca/pubs/calendar/current/academic-schedule.html>