



PSYC/NEUR 479		Human Neuropsychology		Fall 2023
<b>Instructor:</b>	Julia Kam	<b>Lecture Location:</b>	In-person (ST 064)	
<b>Phone:</b>	403-220-5954	<b>Lecture Day/Time:</b>	TR 11:00-12:15pm	
<b>Email:</b>	<a href="mailto:julia.kam@ucalgary.ca">julia.kam@ucalgary.ca</a> *	<b>TA Name:</b>	YeEun Park	
<b>Office:</b>	Online (via Zoom)	<b>TA Email:</b>	<a href="mailto:yeeun.park@ucalgary.ca">yeeun.park@ucalgary.ca</a>	
<b>Office Hours:</b>	by appointment			

\*Email: please enter "Psyc/Neur 479" in the subject line.

### Course Description

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

### Course Website

The course website is on D2L at <https://d2l.ucalgary.ca>. This website contains all lecture slides, important links to other resources, discussion platform, and more. You will also hand in your assignments via D2L.

### Course Format

This is an in-person class held on campus. Refer to the Tentative Schedule for specific dates of each class. Class materials for each lecture will be posted to the course D2L page by the day/time of each scheduled class as per the course schedule.

### 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 (<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-behavior relationships	Quizzes	1	C
Identify patterns of neuroanatomical disruptions associated with different neuropsychological disorders	Quizzes	1, 7	C
Understand how these neuropsychological disorders impact cognitive and affective functions	Quizzes; Group Assignment	1, 7	C
Explain how neuropsychological disorders result from changes or damage to the human brain	Quizzes	1	C

Formulate original questions by drawing connections among elements within the course	Student-generated questions	1, 2, 4, 7	A
Critically evaluate and communicate empirical findings of neuropsychological studies to public	Group Assignment	1, 2, 4, 5, 7	A

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.

### **Prerequisites**

1. Psych 300 and 301, and
2. Psych 375 – Brain and Behaviour, and
3. admission to the Psychology major or Honours program or to the minor in Speech-Language Sciences for Linguistics Majors.

### **Required Textbook**

Kolb & Whishaw, Fundamentals of Human Neuropsychology, Eighth Edition (2020). Hard copies and electronic copies of the Eighth Edition (2020) are available at the University Bookstore. The seventh edition would be acceptable as well. Please speak to me if you are unable to procure the textbook for any reason. Required and Supplemental readings (i.e. scientific papers) will be provided on D2L.

### **Assessment Methods**

#### **Quizzes**

All quizzes will be based on lecture material, textbook and supplemental readings. There are five quizzes in total. Each quiz is worth 14%, which sums up to 70% of the final grade. Quizzes will take approximately 35-45 minutes to complete. They will consist of multiple-choice and/or short answer questions. Quizzes will be non-cumulative (i.e., material covered on earlier quizzes will not be explicitly covered in the later quizzes) but knowledge from earlier sections of the course may be necessary to answer certain questions on later quizzes. Refer to *Absence from Quiz* section in case of absence from quizzes. Technology requirements for quiz completion include a computer and internet access. A paper option is also offered.

#### **Student-Generated Questions**

Students are asked to create two multiple-choice or short- answer questions (and answers) for any THREE quizzes. Examples on how to write effective questions can be found here: <https://cft.vanderbilt.edu/guides-sub-pages/writing-good-multiple-choice-test-questions/> and here: <https://uwaterloo.ca/centre-for-teaching-excellence/teaching-resources/teaching-tips/developing-assignments/exams/questions-types-characteristics-suggestions>. When writing a short-answer question,

please indicate what items you think must be present in the response to qualify as a correct answer. In the answer portion, indicate the lecture slide or textbook page number that correspond to the correct answer. For each student-generated question, half the credit will be given for the question portion and the other half for the answer portion. From generating your own questions, and reviewing your peers' questions, the outcome of this assignment serves as review material in preparation for your quizzes.

All questions must be submitted via D2L, on the "Student-generated questions" discussion board prior to the quiz. Questions that have already been submitted by one student cannot be re-submitted by another student. \*Note that you are asked to write two questions for each of the three quizzes. You may choose whichever three of the six quizzes to write these questions for. Each question is worth 2%, so each pair of questions is worth 4% of final grade. Questions must be submitted by 11:59pm MT on their due dates listed below. Please submit your questions in advance of the due date/time in case of technical issues with D2L or internet connections. Questions submitted after the deadline will not be considered/graded.

### **Group Assignment**

In this assignment, students are asked to work in groups of 2 or 3 to prepare a podcast that introduces a neurological disorder. The podcast should last around 15 minutes – the audio recording along with your script (up to 8 pages, Times/Arial font, size 12) will both need to be submitted. Students can choose from any of the neurological disorders discussed in lectures or in 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. Evaluation criteria will be available on D2L after week 2. Assignments are worth 18% and are due 11:59pm MT on November 17. One student from the group will submit the assignment via D2L. With instructor approval, late assignments may be accepted and will be penalized 10% per day including weekends.

Course component	Weighting	Due date
<b>Quizzes (70% total)</b>	<b>70%</b>	
Quiz 1 (covers all lecture materials for L1-L4)	14%	Sep 26
Quiz 2 (covers all lecture materials for L5-L6)	14%	Oct 12
Quiz 3 (covers all lecture materials for L7-L8)	14%	Oct 31
Quiz 4 (covers all lecture materials for L9-L10)	14%	Nov 21
Quiz 5 (covers all lecture materials for L11-L12)	14%	Dec 5
<b>Student-generated questions (12% total = 4% each x 3)</b>	<b>12%</b>	
Questions about Quiz 1 materials		Sep 24
Questions about Quiz 2 materials		Oct 10
Questions about Quiz 3 materials		Oct 29
Questions about Quiz 4 materials		Nov 19
Questions about Quiz 5 materials		Dec 3
<b>Group Assignment</b>	<b>18%</b>	Nov 9

Once approved by the course instructor, and at their discretion, alternative arrangements for missed assessments may be considered <https://www.ucalgary.ca/pubs/calendar/current/g-1-2.html>. Students may be asked for documentation <https://www.ucalgary.ca/pubs/calendar/current/m-1.html>.

### 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**

<b>Date</b>	<b>Topic / Due Date</b>	<b>Lecture Materials</b>
T Sep 5	Lecture 1 (L1): Intro to Neuropsychology First day of lectures	--
R Sep 7	L1: Intro to Neuropsychology L2: Cerebral Organization	Chapter 1
T Sep 12	L2: Cerebral Organization	Chapter 1
R Sep 14	L3: Research Methods Last day to drop a class without financial penalty	Chapter 7
F Sep 15	Last day to add or swap a course	
T Sep 19	L3: Research Methods	Chapter 7
R Sep 21	L4: Neuropsychology Concepts	--
F Sep 22	Fee payment deadline for Fall Term full and half courses.	
<b>T Sep 26</b>	<b>Quiz 1 (L1-L4)</b>	<b>Chp 1, 7</b>
R Sep 28	L5: Occipital Lobe Functions and Dysfunctions	Chapter 13
F Sep 30	University Closed. National Day for Truth and Reconciliation.	
T Oct 3	L5: Occipital Lobe Functions and Dysfunctions	Chapter 13
R Oct 5	L6: Parietal Lobe Functions and Dysfunctions	Chapter 14
M Oct 9	University closed. Thanksgiving Day.	
T Oct 10	L6: Parietal Lobe Functions and Dysfunctions	Chapter 14
<b>R Oct 12</b>	<b>Quiz 2 (L5-L6)</b>	<b>Chp 13, 14</b>
T Oct 17	L7: Temporal Lobe Functions and Dysfunctions	Chapter 15
R Oct 19	L7: Temporal Lobe Functions and Dysfunctions	Chapter 15
T Oct 24	L8: Frontal Lobe Functions and Dysfunctions	Chapter 16
R Oct 26	L8: Frontal Lobe Functions and Dysfunctions	Chapter 16
<b>T Oct 31</b>	<b>Quiz 3 (L7-L8)</b>	<b>Chp 15, 16</b>
R Nov 2	L9: Language and Aphasia	Chapter 19
T Nov 7	L10: Attention – External	
R Nov 9	L10: Attention – Internal <b>*Group Assignment due</b>	Paper
S Nov 11	University Closed. Remembrance Day (Observed Monday Nov 13).	
Nov 12-18	Term Break. No lectures.	
<b>T Nov 21</b>	<b>Quiz 4 (L9-L10)</b>	<b>Chp 19 + Paper</b>
R Nov 23	L11: Learning, Memory, and Amnesia	Chapter 18
<b>T Nov 28</b>	L11: Learning, Memory, and Amnesia L12: Neurological Disorders	Chapter 18 Paper
R Nov 30	L12: Neurological Disorders	Paper

<b>T Dec 5</b>	<b>Quiz 5 (L11-L12)</b> Fall Term Lectures End.	<b>Chp 18 + Paper</b>
W Dec 6	Last day to withdraw with permission from Fall Term half courses.	
Dec 9-20	Fall Final Exam Period	

### **Course Credits for Research Participation**

Extra research participation course credit is not offered for this course.

### **Seating During Quizzes**

Instructors and exam invigilators are free to ask students to move seats before a quiz begins or even during a quiz. Students must comply with this request and refusal to do so may warrant a charge of academic misconduct.

### **Absence from a Quiz**

Makeup quizzes are **NOT** an option without the approval of the instructor. <https://www.ucalgary.ca/pubs/calendar/current/g-1-1.html>. If students miss a quiz, they have up to 48 hours to contact the instructor to ask for a makeup quiz. It's the instructor's discretion if they will allow a make-up quiz or re-weighting of quizzes. Students who do not schedule a makeup quiz with the instructor within this 48-hour period forfeit the right to a makeup quiz or for the quiz to be re-weighted. At the instructor's discretion, a makeup quiz may differ significantly (in form and/or content) from a regularly scheduled quiz. Once approved by the instructor a makeup quiz must be written within 2 weeks of the missed quiz on a day/time scheduled by the instructor.

### **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 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 Term Work or Final Grade**

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 <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/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 ([https://library.ucalgary.ca/services/copyright?\\_gl=1\\*bcjlpn\\*\\_ga\\*OTY1ODc0Njg0LjE2NjkxNTA1NTM.\\*\\_ga\\_X4GN9Y4W7D\\*MTY3Nzc5MjM3Ni4xNy4xLjE2Nzc3OTI4MDYuMC4wLjA](https://library.ucalgary.ca/services/copyright?_gl=1*bcjlpn*_ga*OTY1ODc0Njg0LjE2NjkxNTA1NTM.*_ga_X4GN9Y4W7D*MTY3Nzc5MjM3Ni4xNy4xLjE2Nzc3OTI4MDYuMC4wLjA)) 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, September 14<sup>th</sup>, 2023**. Last day add/swap a course is **Friday, September 15<sup>th</sup>, 2023**. The last day to withdraw from this course is **Wednesday, December 6<sup>th</sup>, 2023**.