

PSYC/NEUR 479		Human Neuropsychology		Winter 2023
<b>Instructor:</b>	Julia Kam	<b>Lecture Location:</b>	In-person (SH 274)	
<b>Phone:</b>	403-220-4954	<b>Lecture Day/Time:</b>	TR 9:30-10:45am	
<b>Email:</b>	julia.kam@ucalgary.ca*	<b>TA Name:</b>	YeEun Park	
<b>Office:</b>	Online (via Zoom)	<b>TA Email:</b>	yeeun.park@ucalgary.ca	
<b>Office Hours:</b>	via 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. Please check it often.

### 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. For some lectures, you may be expected to have watched the corresponding lecture videos in order to participate in discussions in class.

### 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 312 – Experimental Design and Quantitative Methods for Psychology (or 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 40-70 minutes to complete. They will consist of multiple-choice and/or written 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 five 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. 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 and your script (up to 8 pages, Times font, size 12, 1 in. margins) 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 Mar 21<sup>st</sup>. 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%	Jan 26
Quiz 2 (covers all lecture materials for L5-L6)	14%	Feb 14
Quiz 3 (covers all lecture materials for L7-L8)	14%	Mar 9
Quiz 4 (covers all lecture materials for L9-L10)	14%	Mar 28
Quiz 5 (covers all lecture materials for L11-L12)	14%	Apr 11
<b>Student-generated questions (12% total = 4% each x 3)</b>	<b>12%</b>	
Questions about Quiz 1 materials		Jan 24
Questions about Quiz 2 materials		Feb 12
Questions about Quiz 3 materials		Mar 7
Questions about Quiz 4 materials		Mar 26
Questions about Quiz 5 materials		Apr 9
<b>Group Assignment</b>	<b>18%</b>	Mar 21

**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 / Due Date	Lecture Materials
T Jan 10	Introductions Lecture 1 (L1): Intro to Neuropsychology First day of lectures	--
R Jan 12	L1: Intro to Neuropsychology L2: Cerebral Organization	Chapter 1
T Jan 17	L2: Cerebral Organization	Chapter 1
R Jan 19	L3: Research Methods Last day to drop a class without financial penalty	Chapter 7
F Jan 20	Last day to add or swap a course	
T Jan 24	L4: Neuropsychology Concepts	--
R Jan 26	<b>Quiz 1 (L1-L4)</b>	
F Jan 27	Fee payment deadline for Fall Term full and half courses.	
T Jan 31	L5: Occipital Lobe Functions and Dysfunctions	Chapter 13
R Feb 2	L5: Occipital Lobe Functions and Dysfunctions	Chapter 13
T Feb 7	L6: Parietal Lobe Functions and Dysfunctions	Chapter 14
R Feb 9	L6: Parietal Lobe Functions and Dysfunctions	Chapter 14
<b>T Feb 14</b>	<b>Quiz 2 (L5-L6)</b>	
R Feb 16	L7: Temporal Lobe Functions and Dysfunctions	Chapter 15
Feb 19-25	Term Break. No Classes. Feb 20 <sup>th</sup> Alberta Family Day. University Closed.	
T Feb 28	L7: Temporal Lobe Functions and Dysfunctions	Chapter 15
R Mar 2	L8: Frontal Lobe Functions and Dysfunctions	Chapter 16
T Mar 7	L8: Frontal Lobe Functions and Dysfunctions	Chapter 16
<b>R Mar 9</b>	<b>Quiz 3 (L7-L8)</b>	
T Mar 14	L9: Attention – External	Chapter 19
R Mar 16	L9: Attention – External	Chapter 19
T Mar 21	L10: Attention – Internal <b>*Group Assignment due</b>	
R Mar 23	L10: Attention – Internal	
<b>T Mar 28</b>	<b>Quiz 4 (L9-L10)</b>	
R Mar 30	L11: Language and Aphasia	Chapter 19
T Apr 4	L12: Learning, Memory, and Amnesia	Chapter 18
R Apr 6	L12: Learning, Memory, and Amnesia	Chapter 18
M Apr 7	University Closed. Good Friday.	
F Apr 10	University Closed. Easter Monday.	
<b>T Apr 11</b>	<b>Quiz 5 (L1-L12)</b>	
W Apr 12	Winter Term Lectures End.	
Apr 15-26	Final Exam Period	

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

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

### **Absence From A Quiz**

Makeup quizzes are **NOT** an option without the approval of the instructor. If students miss a quiz, they are required to contact the instructor as soon as possible 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 as soon as possible 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/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](http://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, 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**

<https://www.ucalgary.ca/pubs/calendar/current/academic-schedule.html#fall2017>