

PSYC/NEUR 47	9-01 Human	Neuropsychology	Summer 2024
Instructor: Phone:	Dr. Nichole Flynn	Lecture Location: Lecture Days/Time:	SS 10 TR 9:00am – 11:45am
Email: Office:	nichole.flynn@ucalgary.ca		
Office Hours:	By appointment		

Course Description

The purpose of this course is to study the functional organization of the neocortex and the cortical lobes, especially in understanding the structure and connectivity of the human brain. Both human and nonhuman studies are discussed, as well as neuropsychological assessment in patients with focal brain injuries and disorders.

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)
Identification of major brain structures and their general function	Multiple choice	1, 2, 4	A, A, A
	midterms, mixed-		
	format quizzes		
Demonstrate an understanding of the organization of the	Multiple choice	1, 2, 4	Α, Α, Α
neocortex and principles of neocortical function	midterms, mixed-		
	format quizzes		
Demonstrate an understanding of the functional organization of	Multiple choice	1, 2, 4	Α, Α, Α
the cortical lobes and their networks	midterms, mixed-		
	format quizzes		
Demonstrate an understanding of the neuropsychological basis of	Multiple choice	1, 2, 4	C, C, C
neurodevelopmental and adult neurological/neuropsychiatric	midterms, mixed-		
disorders	format quizzes		
Compare and contrast neuropsychological tasks used in the	Multiple choice	1, 2, 4	C, C, C
evaluation of patients with brain injury and disorders	midterms, mixed-		
	format quizzes		

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 the Métis Nation of Alberta (Districts 5 and 6).

Course Format

This is an in-person class held on campus.

Prerequisites

<u>Psychology 300</u>, <u>301</u>, <u>375</u> and admission to the Psychology major or Honours program or to the minor in Speech-Language Sciences for Linguistics Majors.

Required Text

Fundamentals of Human Neuropsychology (8th Edition), B. Kolb, and I.Q. Whishaw (2021), Worth Publishers. The text is available from the university bookstore.

Assessment Methods

Quiz 1: July 2 (In class). Covers material from June 25-26 (or less).	7%
Quiz 2: July 16 (In class). Covers material from July 9—11 (or less).	7%
Quiz 3: Aug. 1 (In class). Covers material from July 25-30 (or less).	7%
Midtorm 1: July 0 (In class) Covers material from June 2E July 4 (or loss)	2/10/

<u>Midterm 1:</u> July 9 (In class). Covers material from June 25-July 4 (or less).	24%
Midterm 2: July 25 (In class). Covers material from July 9-23 (or less).	24%

Exams 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 or electronically during exams.

31%

Exam Procedure:

- Absolutely no electronic devices allowed at your seat or on your person
- Writing implements, ID card, water bottles at desk only
- If a student arrives 15+ minutes late, the student will not be permitted to write the exam and will receive a grade of zero
- All students must stop writing when time is up or their exam will not be marked, receiving a grade of zero
- No student is permitted to leave within last 15 min of exam to limit disruptions

Midterms are multiple choice and will be held from 9:05am -10:05am (60 min). Lecture will resume following a 15 min break. Quizzes are mixed-format and may include any/all of the following question styles: short answer, label-the-diagram, true/false, fill-in-the-blank, and multiple choice. Quizzes will be held from 9:05am – 9:35am (30 min). Lecture will resume following a 10 min break. The cumulative final

exam will be multiple choice and is registrar-scheduled. Only material covered in lecture will be tested. The topics that will be covered by each assessment will be posted on D2L in advance of each exam/quiz.

Once approved by the course instructor, and at their discretion, alternative arrangements for missed assessments may be considered

<u>https://calendar.ucalgary.ca/pages/78a7b12034b64946b663e1cec5605d38</u>. Students may be asked for documentation <u>https://calendar.ucalgary.ca/uofcregs/university-regulations/additional-regulations</u>.

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%
А	90-95%	В	76-79%	С	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-).

Date	Торіс	Readings
M Jun 24	Summer term lectures begin	
T Jun 25	 Background – Intro to Neuropsychology. Review of the functional organization of the nervous system and neuronal communication 	Note: <u>Chapters 1-9</u> are considered pre-requisite knowledge for this course. Please take time to do additional reading if required. We only have time to review some concepts. <u>Our focus:</u> Ch. 1: p. 2-4, p. 7-16 Ch. 3: p. 50-54, p. 57-58, p. 60-61, p. 63-75 Ch. 4: p. 81, p. 88-89, p. 93-104
		Ch. 5: p. 110-114, 117-127
R Jun 27	Functional Organization of the Neocortex Last day to drop classes without penalty and last day to add or swap classes.	Ch. 10 (Principles of neocortical function): p. 238-251, p. 252-260
		Ch. 11 (Cerebral asymmetry): p. 262-265, p. 268-279
T Jul 2	QUIZ 1 (9:05am - 9:35am)	

Tentative Lecture Schedule

	Lecture resumes at 9:45am	
	Functional Organization of the Neocortex	Ch. 12 (Individual differences in cerebral organization): p. 292-296, p. 300-306, p. 309-312
	Occipital Lobes	Ch. 13 (Occipital): p. 322-340
R Jul 4	Occipital Lobes	Ch. 13 (Occipital): p. 322-340
	Parietal Lobes	Ch. 14 (Parietal): p. 345-349, p. 354- 360
T Jul 9	MIDTERM 1 (9:05am – 10:05am)	
	Lecture resumes at 10:20am	
	Parietal Lobes	Ch. 14 (Parietal): p. 345-349, p. 354- 360
	Temporal Lobes	Ch. 15 (Temporal): p. 370-376, p. 380, p. 384, p.386-391
R Jul 11	Temporal Lobes	Ch. 15 (Temporal): p. 370-376, p. 380, p. 384, p.386-391
	Frontal lobes	Ch. 16 (Frontal): p. 395-402, p. 404- 418
T Jul 16	QUIZ 2 (9:05am - 9:35am)	
	Lecture resumes at 9:45am	
	Frontal Lobes	Ch. 16 (Frontal): p. 395-402, p. 404- 418
	Learning and memory	Ch. 18 (Learning and memory): p.443-463
R Jul 18	Learning and memory	Ch. 18 (Learning and memory): p.443-463

Spatial Behaviour	Ch. 21 (Spatial behaviour): p. 528- 538, p. 545-548
Spatial Behaviour	Ch. 21 (Spatial behaviour): p. 528- 538, p. 545-548
Neurodevelopmental Disorders	Ch. 24: p. 615-630, p. 638-641 Ch. 19: p. 483-485 (Fig 19.9
MIDTERM 2 (9:05am – 10:05am)	
Lecture resumes at 10:20am	
Neurodevelopmental Disorders	Ch. 24: p. 615-630, p. 638-641 Ch. 19: p. 483-485 (Fig 19.9)
Neurological disorders	Ch. 26: TBD
QUIZ 3 (9:05am - 9:35am)	
Lecture resumes at 9:45am	
Neuropsychiatric disorders	Ch. 27: TBD
Neuropsychiatric disorders	Ch. 27: TBD
End of Summer Lectures and last day to withdraw	
from a course.	
Start of Final Exams	
End of Final Exams	
	Spatial Behaviour Neurodevelopmental Disorders VIDTERM 2 (9:05am – 10:05am) Lecture resumes at 10:20am Neurodevelopmental Disorders Neurological disorders QUIZ 3 (9:05am - 9:35am) Lecture resumes at 9:45am Neuropsychiatric disorders Neuropsychiatric disorders End of Summer Lectures and last day to withdraw from a course. Start of Final Exams

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

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 Test/Exam

Makeup tests/exams are **NOT** an option without the approval of the instructor

<u>https://calendar.ucalgary.ca/pages/6fcc1fb40bb54524809685d7096c8b76</u>. 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://calendar.ucalgary.ca/pages/c53034e7579d4455815e37ce1c1f80da</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>Deferred Final Exams | University of Calgary (ucalgary.ca)</u> Students with an exceptional extenuating circumstance (e.g., a family emergency) should contact the Department of Psychology <u>psyugrd@ucalgary.ca</u>

Reappraisal of Graded Term Work

https://calendar.ucalgary.ca/pages/e31a7115dca740ec83579e946d4a4193 Reappraisal of Final Grade https://calendar.ucalgary.ca/pages/030b5a67a21048c7b4e6a5d167c628d8

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/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 <u>https://calendar.ucalgary.ca/uofcregs/university-regulations/integrity-conduct</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

(https://library.ucalgary.ca/services/copyright? gl=1*bcjlpn*_ga*OTY1ODcONjgOLjE2NjkxNTA1NTM.*_g a_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**, **June 27th**, **2024**. Last day add/swap a course is **Thursday**, **June 27th**, **2024**. The last day to withdraw from this course is **Tuesday**, **August 6th**, **2024**.