

**PSYC 479 (NEUR 479)****Human Neuropsychology****Fall 2017**

<b>Instructor:</b>	Brandy Callahan	<b>Lecture Location:</b>	D2L
<b>Phone:</b>	403-220-7291	<b>Lecture Days/Time:</b>	TR 09:30 - 10:45
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<b>Office:</b>	<a href="https://zoom.us/j/493801134">https://zoom.us/j/493801134</a>		
<b>Office Hours:</b>			0 (virtual office) R 10:45 - 13:00, with some exceptions, or by request

### **Course Description**

This course provides an integration of the literature on human brain damage with the evidence from animal and human lesion research. Topics include developmental neuropsychology; cognitive deficits associated with frontal, parietooccipital, and temporal lobe damage; origins and mechanisms in the determination of cerebral dominance; disorders of learning and memory; long-term effects of cerebral lesions.

### **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](http://psyc.ucalgary.ca/undergraduate/program-learning-outcomes)), and the expected level of achievement.

Course Learning Outcomes	Assessment Methods	PLO(s)	Level(s)
Understand empirically-based approaches to psychological and neuropsychological assessment	Midterm and final exams	1	C
Apply knowledge about human neuropsychological functioning to infer conclusions about behavior	Midterm and final exams, in-class discussions	1, 7	C
Understand and explain the neural substrates associated with specific areas of cognitive functioning and their related disorders	Quizzes, midterm and final exams	1, 7	C
Explain how various cognitive disorders result from changes or damage to the human brain	Midterm and final exams, quizzes	1	C
Formulate original questions by drawing connections among elements within the course	Student-generated exam questions	1, 2, 4, 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, 7 = apply psychological knowledge and skills. Level of PLO achievement facilitated by this course: I = introductory, C = competency, A = advanced.

### **Prerequisites**

PSYC 300 & 301 (orPsych 312) – Experimental Design and Quantitative Methods for Psychology and Psych 375 – Brain and Behaviour and admission to the Psychology major or Honours program or to the minor in Speech-Language Sciences for Linguistics Majors.

### **Required Text**

Kolb & Whishaw (2015), Fundamentals of Human Neuropsychology, Seventh Edition. Hard copies 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 exam 1	15%	February 6
Midterm exam 2	20%	March 12
Final exam (take home)	25%	TBD
<b>Five student-generated exam questions (10% total)</b>		
One question from Lectures 1, 2, 3	2%	January 30
One question from Lectures 5, 6, 7, 8	2%	March 12
Three questions from Lectures 10, 11, 12, 13	6%	April 9
<b>Three in-class quizzes (30% total)</b>		
Quiz 1	10%	January 23
Quiz 2	10%	February 27
Quiz 3 (online)	10%	March 26

### **Midterm and Final Exams**

Midterm #1 (February 6 in class, worth 15% of the final grade), Midterm #2 (March 12 in class, worth 20% of the final grade) and final exam (date and location TBD, worth 25% of the final grade) will be based on lecture material, textbook and supplemental readings. Midterms will take the entire class time, and no lectures will be given. Both exams will consist of a mix of multiple-choice, short answer, and long answer questions. Exams will be non-cumulative (i.e., material covered on the midterms will not be explicitly covered in the final exam) but knowledge from earlier sections of the course may be necessary to answer certain questions on later exams. No materials are permitted during midterm exams (e.g. Phones, iPods, iPads, computers, books, notes, etc.). **The Final will be an open-book exam.**

**It will be posted to D2L on April 24 and students will have until 5:30 PM on April 28 to complete it.**

Please refer to *Absence from a test/exam* section in case of absence from the midterm or final exams.

### **Quizzes (held during class time)**

The quizzes (10% each) will be based on lecture material, textbook and supplemental readings and will not be cumulative. They will be focused heavily on neuroanatomy and consist primarily of diagrams and brain images requiring you to label brain regions. They also will require you to explain functions associated with particular brain regions. No materials are permitted during quizzes (e.g. Phones, iPods, iPads, computers, books, notes, etc.). Please refer to *Absence from a test/exam* section in case of absence from the quizzes. Quizzes 1 and 2 will be given at the beginning of class and will not be given to individuals who are more than 5 minutes late (i.e., 11:05 AM). **Quiz 3 will be an open-book exam. It will be posted to D2L on March 26 and students will have until the end of the day (11:59 PM) to complete it. Students who know they will be unavailable on March 26 (e.g., due to prearranged travel) must let me know immediately.**

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

Students are asked to write five multiple-choice or short-answer questions (and answers) for both midterm exams (1 question each) and the final exam (3 questions). 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. For each student-generated question, half the credit will be given for the question portion (students will automatically receive credit for a submitted question) and the other half will be given for the answer portion (students will receive credit if they provide thoughtful answer components and clearly indicate which key elements must be present in the response to qualify as a correct answer).

All questions must be submitted via D2L, on the “Student-generated exam questions” discussion board so that they can be used as review material by all students prior to exams. Questions that have already been submitted by one student cannot be re-submitted by another student. A subset of submitted questions will be used on the midterm and final exams. Questions/answers submitted for Midterm 1 are due by January 23; questions/answers submitted for Midterm 2 are due by February 27; **questions/answers submitted for the final exam are due by April 9.** Questions submitted after these deadlines will not be considered and, unless approved documentation is provided, will not be graded.

### **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: *M 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%

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 in this course 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
M Jan 6	<i>Winter term begin, Block Week Courses (Jan 6-10)</i>
T Jan 14	<i>Winter Lectures Begin</i> Lecture: Introductions; The Development of Neuropsychology (Ch. 1)
R Jan 16	<i>Last day to drop Winter Term half-courses.</i> Lecture: Brain development and organization (Ch. 23-24)
T Jan 21	Lecture: Differentiation of function (Ch. 23-24)
R Jan 23	<i>Last day to drop a class without financial penalty.</i> <b>Quiz 1 (10%)</b> Lecture: Nervous system organization (Ch. 3)
F Jan 24	<i>Last day to add or swap a course</i>
T Jan 28	Lecture: Organization of the sensory systems (Ch. 8)
R Jan 30	Lecture: Organization of the motor systems (Ch. 9)
F Jan 31	<i>Tuition Fee Deadline</i>
T Feb 4	Lecture: The occipital lobes, the visual system and related disorders (Ch. 13)
<b>R Feb 6</b>	<b>Midterm 1 (15%)</b>
T Feb 11	Lecture: The parietal lobes and apraxias (Ch. 14)
R Feb 13	Lecture: The temporal lobes (Ch. 15)
Feb 16-22	<i>Reading Week. No lectures. University open (except Family Day). Alberta Family Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.</i>
M Feb 17	<i>Alberta Family Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.</i>
T Feb 25	Lecture: The frontal lobes: Ch. 16
<b>R Feb 27</b>	<b>Quiz 2 (10%)</b> Lecture: Learning, memory and amnestic syndromes (Ch. 18)
T Mar 3	Lecture: Language abilities and aphasias (Ch. 19)
R Mar 5	Lecture: Spatial behavior (Ch. 21)
T Mar 10	Lecture: Attention and consciousness (Ch. 22)
<b>R Mar 12</b>	<b>Midterm 2 (20%)</b>
T Mar 17	Lecture: Neuropsychological assessment (Ch. 28) <b>Recorded lecture to be posted to D2L</b>

R Mar 19	Lecture: Emotion and the social brain (Ch. 20) <b><i>Recorded lecture to be posted to D2L</i></b>
T Mar 24	Lecture: Guest lecture: "Sleep and social cognition" by Veronica Guadagni, PhD <b><i>Cancelled</i></b>
R Mar 26	<b>Quiz 3 (10%)</b> Lecture: Neuroimaging (Ch. 7) <b><i>Recorded lecture to be posted to D2L</i></b>
T Mar 31	Lecture: Cognitive rehabilitation (Ch. 25) <b><i>Recorded lecture to be posted to D2L</i></b>
R Apr 2	Lecture: Neurodevelopmental disorders (Ch. 24) <b><i>Recorded lecture to be posted to D2L</i></b>
T Apr 7	Lecture: Neurological disorders (Ch. 26) <b><i>Recorded lecture to be posted to D2L</i></b>
R Apr 9	Lecture: Psychiatric conditions (Ch. 27) <b><i>Recorded lecture to be posted to D2L</i></b>
F Apr 10	<i>Good Friday</i>
M Apr 13	<i>Non-Instructional Day, University Open</i>
W Apr 15	<i>Last day of classes, last day to withdraw from winter semester</i>
Apr 18-29	<i>Final Exam Period</i>
Apr 24-28	<b>Final exam period (take-home, 25%), due 5:30 pm on April 28</b>
Apr 30	<i>End of Term</i>

### Course Credits for Research Participation

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 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/n-1.html>. 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 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 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/](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 <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](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>

### **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.

### **Student Organizations**

Psychology students may wish to join the Psychology Undergraduate Students' Association (PSYCHS). They are located in Administration 130 and may be contacted at 403-220-5567.

**Student Union VP Academic:**      Phone: 403-220-3911      [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca)

**Student Union Faculty Rep.:**      [arts1@su.ucalgary.ca](mailto:arts1@su.ucalgary.ca)

### **Important Dates**

The last day to drop this course with no "W" notation and **still receive a tuition fee refund** is **January 23, 2020**. Last day for registration/change of registration is **January 24, 2020**. The last day to withdraw from this course is **April 15, 2020**.