

PSYC/NEUR 479
Human Neuropsychology
Winter 2017

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|----------------------|------------------------|---------------------------|---|
| Instructor: | Dr. Richelle Mychasiuk | Lecture Location: | SA235 |
| Phone: | 403-220-3469 | Lecture Days/Time: | MWF / 9:00 |
| Email: | rmmychas@ucalgary.ca | Lab : | W or F : 14:00 |
| | | TAs: | Catherine Thomas Ryan Chan |
| Office: AD030 | | | catherine.thomas@ucalgary.ca rkwchan@ucalgary.ca |
| Office Hours: | By Appointment | | |

Course Description and Goals

This course is primarily concerned with the organization of the human brain and manner in which the brain normally produces behaviour, thoughts, feelings, perceptions, etc. The course will integrate the literature on human brain function with the evidence from animal research. Topics include developmental neuropsychology; cognitive deficits associated with frontal, parietooccipital, and temporal lobes; origins and mechanisms in the determination of cerebral dominancy; disorders of learning and memory; long-term effects of cerebral lesions.

| Course Learning Outcomes | PLO(s) | Level(s) |
|---|-------------------------|----------|
| This course will review major topics in behavioural neuroscience and neuropsychology with a focus on human cognition and disruptions to normal functioning. | 1, 2, 3, 4, 7 | C, A |
| Initial lectures will introduce and build on knowledge of neuroanatomy, neurophysiology, brain organization, and function of specific brain regions. | 1, 2, 3, 4, 5, 7 | C, A |
| These will be followed by lectures that integrate this information into complex systems and circuitry such as attention, memory, language, and socio-emotional functioning. | 1, 2, 3, 4, 5, 6, 7, | C, A |
| The laboratory components will prioritize anatomical organization of the brain and application of knowledge to real world situations. | 1, 2, 3, 4, 5, 6, 7 | C, 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

Psychology 312 – Experimental Design and Quantitative Methods for Psychology
 Psychology 375 – Brain and Behaviour

Required Text – Can be purchased at the UofC bookstore

Fundamentals of Human Neuropsychology 7th Edition – Kolb & Whishaw
 A Colorful Introduction to the Anatomy of the Human Brain 2nd Edition – Pinel & Edwards

Evaluation

There will be 3 Exams (3 Midterms), 10 Quizzes (Weekly within the Lab) and 4 Lab Assignments. The Exams/Quizzes may include a mixture of multiple choice, short answer, and short essay; they will be based on lecture material, textbook, and laboratory-derived materials. Students are not permitted to have any materials with them for the EXAMS (e.g. Phones, Ipods, tablets, computers, books, notes, etc).

1. Three EXAMS – Each will be worth 20% of the Final grade (60% total)
 - a. Friday February 3, 2017 = Midterm #1
 - b. Friday March 10, 2017 = Midterm #2
 - c. Monday April 10, 2017 = Midterm #3
2. Ten QUIZZES – Will take your best 9 quizzes and drop the lowest score (20% total)
 - a. Each Quiz worth 2.22%. There will be NO make-up quizzes.
 - b. Quizzes will occur during weekly Lab Session
 - c. Quizzes are open book – you may bring your notes
 - d. Will not have a quiz the week of midterms
 - e. Quiz Weeks – Jan 9, 16, 23, Feb 6, 13, 27, Mar 13, 20, 27, Apr 3
3. Four Lab Assignments – Each assignment worth 5% (20% total)
 - a. Will have an Anatomical and Written component
 - b. Will be due at the end of your lab session – Must be handed in at lab
 - c. Assignment Weeks – Jan 16, Feb 13, Mar 13, Apr 3
 - d. Late Lab Assignments will incur a penalty of 10% per day, including weekends

Students must achieve a passing grade on both the class and lab components to pass this course.

Department of Psychology Grade Distribution Policy

The Department monitors the grade distributions of 200-, 300-, and 400-level courses in the Faculty to ensure that the grade distributions in Psychology courses are comparable. Based on these reviews, students can expect that 1) up to 30% of grades in 200- and 300-level psychology courses will be “A” grades (A+, A, and A-), and 2) up to 40% of grades 400-level psychology courses will be “A” grades.

Department of Psychology Criteria for 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% |

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. In this course there will be no rounding up of final grades, especially in light of the opportunities students have to increase their final grade via research participation.

Tentative Lecture Schedule

| Date | Topic | Readings |
|-------------------------|--------------------------------------|---------------------------|
| Jan 4, 6 | Cerebral Organization | Chapters 8, 9, 10 |
| Jan 9, 11, 13 | Cerebral Asymmetry | Chapters 11, 12 |
| Jan 16, 18, 20 | Occipital Lobe | Chapter 13 |
| Jan 23, 25, 27 | Parietal Lobe | Chapter 14 |
| Jan 30, Feb 1 | Temporal Lobe | Chapter 15 |
| <i>February 3, 2017</i> | <i>Midterm #1</i> | <i>Chpts 8-15</i> |
| Feb 6, 8, 10 | Frontal Lobe | Chapter 16 |
| Feb 13, 15, 17 | Disconnection | Chapter 17 |
| Feb 20-24 | Reading Week | |
| Feb 27, March 1, 3 | Memory | Chapter 18 |
| March 6, 8 | Language | Chapter 19 |
| <i>March 10, 2017</i> | <i>Midterm #2</i> | <i>Chpts 16-19</i> |
| March 13, 15, 17 | Social Emotional Functioning / Space | Chapters 20, 21 |
| March 20, 22, 24 | Attention | Chapters 22 |
| March 27, 29, 31 | Recovery, Plasticity & Rehab | Chapters 23, 25 |
| April 3, 5, 7 | Neurological & Psychiatric Disorders | Chapters 26, 27 |
| <i>April 10, 2017</i> | <i>Midterm #3</i> | <i>Chpts 20-23, 25-27</i> |

Dates to remember

| Date | Topic/Activity/Readings/Due Date (revise and add columns & rows as necessary) |
|-----------|--|
| M Jan 09 | Winter term lectures begin. |
| F Jan 20 | Last day to drop Winter Term half-courses. |
| M Jan 23 | Last day to add or swap Winter Term half courses. Last day for change of registration from audit to credit or credit to audit. |
| F Jan 27 | Fee payment deadline for Winter Term fees. |
| Feb 19-26 | Reading Week. No lectures. University open (except Family Day). |
| M Feb 20 | Alberta Family Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures. |
| W Apr 12 | Winter Term Lectures End. Last day to withdraw from full courses and Winter Term half courses. |
| F Apr 14 | Good Friday. No Classes. University Closed |
| Apr 15-26 | Winter Term Final Examinations. |

Reappraisal of Grades

A student who feels that a piece of graded term work (e.g., term paper, essay, test) has been unfairly graded, may have the work re-graded as follows. The student shall discuss the work with the instructor within 15 days of being notified about the mark or of the item's return to the class; no reappraisal of term work is permitted after the 15 days. If not satisfied, the student shall immediately take the matter to the Head of the department offering the course, who will arrange for a reassessment of the work within the next 15 days. The reappraisal of term work may cause the grade to be raised, lowered, or to remain the same. If the student is not satisfied with the decision and wishes to appeal, the student shall address a letter of appeal to the Dean of the faculty offering the course within 15 days of the unfavourable decision. In the letter, the student must clearly and fully state the decision being appealed, the grounds for appeal, and the remedies being sought, along with any special circumstances that warrant an appeal of the reappraisal. The student should include as much written documentation as possible.

Plagiarism and Other Academic Misconduct

Intellectual honesty is the cornerstone of the development and acquisition of knowledge and requires that the contribution of others be acknowledged. Consequently, plagiarism or cheating on any assignment is regarded as an extremely serious academic offense. Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Students should examine sections of the University Calendar that present a Statement of Intellectual honesty and definitions and penalties associated with Plagiarism/Cheating/Other Academic Misconduct.

Academic Accommodation

It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodation and have not registered with the Disability Resource Centre, please contact their office at 403-220-8237. Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than 14 days after the start of this course.

Absence From A Test/Exam

Makeup tests/exams are **NOT** an option without an official University medical excuse (see the University Calendar). A completed Physician/Counselor Statement will be required to confirm absence from a test/exam for health reasons; the student will be required to pay any cost associated with this Statement. Students who miss a test/exam have up to 48 hours to contact the instructor and to schedule a makeup test/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. Except in extenuating circumstances (documented by an official University medical excuse), 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-review-and-makeup-exams>. If a student cannot make write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam http://www.ucalgary.ca/registrar/exams/deferred_final. Under no circumstances will this be accommodated by the department.

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 make write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam http://www.ucalgary.ca/registrar/exams/deferred_final. Under no circumstances will this be accommodated by the department.

Freedom of Information and Protection of Privacy (FOIP) Act

The FOIP legislation disallows the practice of having student's retrieve tests and assignments from a public place. Therefore, tests and assignments may be returned to students during class/lab, or during office hours. Tests and assignments will be shredded after one year. Instructors should take care to not link students' names with their grades, UCIDs, or other FOIP-sensitive information.

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 [suyaca@ucalgary.ca](mailto:suypaca@ucalgary.ca)

Student Union Faculty Rep.: arts1@su.ucalgary.ca

Student Ombudsman's Office

The Office of the Student Ombudsmen provides independent, impartial and confidential support for students who require assistance and advice in addressing issues and concerns related to their academic careers. The office can be reached at 403-220-6420 or ombuds@ucalgary.ca (<http://www.ucalgary.ca/provost/students/ombuds>)

Important Dates

The last day to drop this course with no “W” notation and **still receive a tuition fee refund** is **January 20, 2017**. Last day for registration/change of registration is **January 23, 2017**. The last day to withdraw from this course is **April 12, 2017**.