

Psychology 375	Brain and Behaviour	Spring 2013
<b>Instructor:</b>	Hsia Pai Patrick Wu	<b>Lecture Location:</b> SB 148
<b>Phone:</b>	403-919-6611	<b>Lecture Days/Time:</b> MWF 08:30-10:20
<b>Email:</b>	hppwu@ucalgary.ca poboxpatwu@gmail.com	
<b>Office:</b>	A-020	
<b>Office Hours:</b>	By Appointment	

### Course Description and Goals

This course aims to provide an introduction to the relationship between the human brain and the production of human behaviour. A variety of topics within behavioural neuroscience, including learning/memory, thought, sleep, emotion, sensation/perception, and related diseases/disorders will be discussed in the context of brain structure, physiology, and electrical activity.

### Prerequisites

Psychology 200 – Principles of Psychology I

### Required Text

*An Introduction to Brain and Behaviour* (4<sup>th</sup> Edition), B. Kolb and I.Q. Whishaw (2012), Worth Publishers. The text is available from the university bookstore.

### Evaluation

Quizzes (3 total; Fridays May 24 <sup>th</sup> , June 7 <sup>th</sup> , June 21 <sup>st</sup> ):	15%
Midterm #1 (Wednesday May 29 <sup>th</sup> )	25%
Midterm #2 (Wednesday June 12 <sup>th</sup> )	25%
Final Exam (TBA by registrar)	35%

There will be 3 quizzes, one every other Friday (May 24<sup>th</sup>, June 7<sup>th</sup>, June 21<sup>st</sup>) throughout the course at the end of the lecture. Each quiz will be worth 5% of your final grade. **Each quiz will cover the prior 2-3 lectures' lecture/reading material** and consist of 1-2 short answer questions or 5 multiple-choice questions.

There will be 3 exams for this course, 2 midterms and 1 final exam. Midterm 1 will be held during lecture hours on Wednesday May, 29<sup>th</sup>. Midterm 2 will be held during lecture hours on Wednesday, Jun 12<sup>th</sup>. Each midterm will be worth 25% of your final grade. Each midterm will cover the prior 5 lectures'

lecture/reading material (**Midterm #2 is not cumulative**). The final exam will be scheduled by the registrar and will be worth 35% of your final grade. **The final exam will be cumulative but will place emphasis on the latter third of the lectures' lecture/reading material.** The 3 exams will consist of approximately 75% multiple choice questions and 25% short answer questions.

Short answer questions for both the quizzes and exams will be graded in the same format and will prompt for definitions, outlines, diagrams, or a combination thereof. Full marks are awarded for each specific concept, terminology, or detail sought by the questions. Half marks are assigned if the general answer is provided with omission of specific details or terminology not crucial to the complete answer. **Only pen, pencil, eraser, and photo ID will be allowed during the examination.**

**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 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
W May 15	Lecture 1 – Introduction – history of the study of brain and behaviour, theories – Chapter 1
F May 17	Lecture 2 – The Brain – gross brain anatomy and associated functions, intelligence – Chapter 2
M May 20	(Victoria Day, University Closed.)
W May 22	Lecture 3 – The Neuron – cell structure, type, classifications, glia, – Chapter 3  Last day for registration/change of registration and last day to drop a course with tuition refund.
F May 24	Lecture 4 – The Action Potential – introduction to electrophysiology, channels, synapses – Chapter 4-5  <b>Quiz #1</b>  (Fee payment deadline)
M May 27	Lecture 5 – Neurotransmitters – classes of transmitters, hormones, drugs – Chapter 6-7
W May 29	<b>Midterm #1</b>

F May 31	Lecture 6 – Sensation and Perception – 5 senses with focus on cortical representation – Chapter 8-9
M June 3	Lecture 7 – Movement – cortical control of movement, review of midterm #1 – Chapter 9-10
W June 5	Lecture 8 – Emotion – theories, motivation, disorders – Chapter 11
F June 7	Lecture 9 – Sleep – EEG, stages of sleep – Chapter 12 <b>Quiz #2</b>
M June 10	Lecture 10 – Learning and Memory – Chapter 13
W June 12	<b>Midterm #2</b>
F June 14	Lecture 11 – Consciousness – theories, models, associated disorders – Chapter 14
M June 17	Lecture 12 – Imaging – PET, CT, MRI, fMRI, review of midterm #2 – Hand out material
W June 19	Lecture 13 – Disorders – Chapter 15, <i>Focus on Disorders</i> throughout text
F June 21	Lecture 14 – Research Techniques – neuroscience fields, behavioural techniques – Appendix <b>Quiz #3</b>
M June 24	Lecture 15 – Future of Behavioural Neurosci – current trends in neuroscience research – Epilogue, Hand out material
W June 26	Course Review  (Last day to participate in studies for credit) Last day to withdraw from full session Spring Term courses.
June 27-29	Final exam dates for full session Spring Term courses.

### 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 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.

### **Travel During Exams**

Consistent with University regulations, students are expected to be available to write scheduled exams at any time during the official December, April, and Spring/Summer examination periods. Requests to write a make-up exam because of conflicting travel plans (e.g., flight bookings) will NOT be considered except under exceptional circumstances. Students are advised to wait until the final examination schedule is posted before making any travel arrangements.

### **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, or via the Department Office (Admin 275), or will be made available only for viewing during exam review sessions scheduled by the Department. 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.

### **Course Credits for Research Participation (Max 2% of final grade)**

Students in most psychology courses are eligible to participate in departmentally approved research and earn credits toward their final grades. **A maximum of two (2) credits (2%) per course, including this course, may be applied to the student's final grade. Students earn 0.5% (0.5 credits) for each full 30 minutes of participation.** The demand for timeslots may exceed the supply in a given term. Thus, students are not guaranteed that there will be enough studies available to them to meet their credit requirements. Students should seek studies early in the term and should frequently check for open timeslots. Students can create an account and participate in Departmentally approved research studies at <http://ucalgary.sona-systems.com>

The last day to participate in studies and to assign or reassign earned credits to courses is **June 26<sup>th</sup>, 2013.**

### **Evacuation Assembly Point**

In case of an emergency evacuation during class, students must gather at the designated assembly point nearest to the classroom. The list of assembly points is found at <http://www.ucalgary.ca/emergencyplan/assemblypoints>  
Please check this website and note the nearest assembly point for this course.

### **Student Organizations**

Psychology students may wish to join the Psychology Undergraduate Students' Association (PSYCHS). They are located in Administration 170 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.:** Phone: 403-220-3913 [socialscirep@su.ucalgary.ca](mailto:socialscirep@su.ucalgary.ca)

### **Important Dates**

The last day to drop this course with no "W" notation and **still receive a tuition fee refund** the last day for registration/change of registration is **May 22, 2013.** The last day to withdraw from this course is **June 26, 2013.**