



Department of Psychology
Psychology 375 (L01) – Brain and Behaviour
Fall 2010

Instructor:	Dr. Giuseppe Iaria	Lecture Location:	ICT 121
Phone:	403 220 8482	Lecture Days/Time:	M/W/F 12:00 – 12:50
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Office Hours:	Any time.		

Course Description and Goals

The neural basis of learning, memory, language and thinking, as well as pathological, sexual, aggressive, and emotional behaviour that arises from neural and hormonal malfunctioning.

Prerequisites

Psyc 205 – Principles of Psychology

Required Text

An Introduction to Brain and Behavior (3rd Ed.), B. Kolb and I.Q. Whishaw (2011), Worth Publishers. The text is available at the University Bookstore.

Tutorials, quizzes, research exercises and essay questions are available at the companion website <http://bcs.worthpublishers.com/kolbintro3e/>

Evaluation

There will be three multiple-choice exams. Test questions can be based on the lectures, the text, or both. The first two exams are not cumulative, whereas the final exam will include cumulative material covered throughout the course.

Exam	Value	Chapters	Date	Duration
First Exam	30%	2-6	Monday Oct 18, 2010	50 minutes
Second Exam	30%	8-11	Friday Nov 19, 2010	50 minutes
Final Exam	40%	12-15 + other	To be Scheduled by the Registrar	2 hours

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-).

Lecture Schedule

Date	Topic/Activity/Readings/Due Date	Chapter
M Sept 13	Course introduction – Why study brain and behaviour?	
W Sept 15	How the brain looks and how it works.	2
F Sept 17	The functions and structures of the nervous system.	2
M Sept 20	The units of the nervous system: Neurons and Glia Cells.	3
W Sept 22	How genes and cells affect behavior.	3
F Sept 24	The neuron electrical activity. (Last day to drop a course with no W grade and tuition refund)	4
M Sept 27	How neurons integrate information. (Last day for registration/change of registration)	4
W Sept 29	Studying the brain electrical activity <i>in vivo</i> .	4
F Oct 1	How neurons communicate and adapt: Synapses	5
M Oct 4	Varieties of neurotransmitters and neurotransmitter systems	5
W Oct 6	Synapses, learning and memory.	5
F Oct 8	Measuring brain and behavior	6
M Oct 11	Thanksgiving Day. No lecture. University closed.	
W Oct 13	Brain electrical activity	6
F Oct 15	Neuroimaging and other measurements of brain functions	6
M Oct 18	FIRST EXAM	2-6
W Oct 20	How (and why) drugs affect behavior/or guest speaker	8
F Oct 22	The brain's responses to drugs/or guest speaker	8
M Oct 25	The visual system.	9
W Oct 27	What we see: Shapes and colors.	9
F Oct 29	The visual cortex in action and the effects of injuries.	9
M Nov 1	How we hear things: The auditory system.	10
W Nov 3	Language and music.	10
F Nov 5	How we move and control movements.	11
M Nov 8	The brain organization of the motor system.	11
W Nov 10	The somatosensory cortex: Our body in the brain.	11
F Nov 12	Reading Day. No lecture	
M Nov 15	Causes of behaviour	12
W Nov 17	The brain mechanisms of a motivated behaviour.	12
F Nov 19	SECOND EXAM	8-11
M Nov 22	Emotions and emotional behaviour	12
W Nov 24	Regulatory and nonregulatory behaviors.	12
F Nov 26	Biological rhythms.	13
M Nov 29	Sleep stages and dreams.	13
W Dec 1	Learning and memory.	14
F Dec 3	Explicit, implicit and emotional memory.	14
M Dec 6	Brain plasticity.	14
W Dec 8	Cognition and association cortex. Last day to participate in research and allocate research credits	15
F Dec 10	Thinking, intelligence and consciousness. Fall Session Lectures end. Last day to withdraw.	15
M Dec 13 – W Dec 22	FINAL EXAM (Scheduled by the Registrar)	12-15 + other*

* questions randomly selected from chapters 2-6 and 8-11.

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. 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.

Course Credits for Research Participation

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 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 **Dec 8th, 2010**.

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	suypaca@ucalgary.ca
Student Union Faculty Rep.:	Phone: 403-220-3913	socialscirep@su.ucalgary.ca

Important Dates

The last day to drop this course with no "W" notation and **still receive a tuition fee refund** is **Sep 24th, 2010**. Last day for registration/change of registration is Sep 27th, 2010. The last day to withdraw from this course is **Dec 10th, 2010**.