



UNIVERSITY OF  
**CALGARY**  
Department of Psychology  
**Psychology 375 (L01) Brain and Behaviour**  
**Fall 2009**

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<b>Instructor:</b>	Dr. Mike Antle	<b>Lecture Location:</b>	Admin 142
<b>Phone:</b>	403-220-2574	<b>Lecture Days/Time:</b>	MWF / 12:00 - 12:50
<b>Email:</b>	<a href="mailto:antlem@ucalgary.ca">antlem@ucalgary.ca</a>		
<b>Office:</b>	Admin 018		
<b>Office Hours:</b>	Drop-in or By appointment		

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### Course Description and Goals

The task of the branch of psychology called behavioural neuroscience is to explain behaviour in terms of the functioning of the brain. This course explores the neural basis of behaviour, sensation, learning & memory, language, as well as neurological and psychological disorders that arise from nervous system malfunctioning.

### Prerequisites

Psyc 205 – Principles of Psychology

### Required Text

- Biological Psychology, 5<sup>th</sup> Ed, S.M. Breedlove, M.R. Rosenzweig, N.V. Watson (2007) Sinauer Associates Inc.
- The text is available at the University Bookstore.
- There is a companion website <http://www.biopsychology.com/5e/lbp5e/home/home.html> which includes study questions, tutorials, terminology quizzes, activities, and sample essay questions.

### Evaluation

There will be 3 exams. The format will be multiple choice. While the first 2 exams are not cumulative, the final exam may include a **very** small amount of cumulative material covering **general themes** covered throughout the course.

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Exam	Value	Chapters covered	Date	Duration
First Exam	30%	1-4 + 6	Monday October 5 <sup>th</sup>	50 minutes
Second Exam	30%	8-10 + 12	Wednesday November 4 <sup>th</sup>	50 minutes
Final Exam	40%	15-19 + other	To be Scheduled by the Registrar.	2 hrs

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### 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	Readings
Sept 9	Introduction to Biopsychology	1
Sept 11	Evolution and Behaviour	6
Sept 14	Evolution and Behaviour	6
Sept 16	Functional Neuroanatomy	2
Sept 18	Functional Neuroanatomy	2
Sept 21	Neurophysiology	3
Sept 23	Neurophysiology	3
Sept 25	Neurotransmission <i>Guest Lecturer: Amy Nakashima</i>	4
Sept 28	Neurotransmission	4
Sept 30	Drugs and Behaviour	4
Oct 2	Drugs and Behaviour + Review	4
Oct 5	<b>Exam #1 (Chapters 1-4, 6)</b>	
Oct 7	Sensation: Basics	8
Oct 9	Sensation: Touch and Pain	8
Oct 12	<b>Thanksgiving – University closed</b>	
Oct 14	Sensation: Vestibular and Chemical Senses	9
Oct 16	Sensation: Hearing	9
Oct 19	Sensation: Hearing <i>Guest Lecturer: Stephen Bonfield</i>	9
Oct 21	Sensation: Vision <i>Guest Lecturer: Stephen Bonfield</i>	10
Oct 23	Sensation: Vision	10
Oct 26	Sensation: Vision	10
Oct 28	Sexual Behaviour	12
Oct 30	Sexual Behaviour	12
Nov 2	Sexual Behaviour + Review	12
Nov 4	<b>Exam #2 (Chapters 8-10, 12)</b>	
Nov 6	Emotions (some of chapter 5 may be covered)	15 + other
Nov 9	Aggression (some of chapter 5 may be covered)	15 + other
Nov 11	<b>Reading Days Nov 11-15 – University closed</b>	
Nov 13	<b>Reading Days Nov 11-15 – University closed</b>	
Nov 16	Stress (some of chapter 5 may be covered)	15 + other
Nov 18	Psychopathology	16
Nov 20	Psychopathology	16
Nov 23	Psychopathology	16
Nov 25	Learning (pages 210-214 of chapter 7 will also be covered)	17 + other
Nov 27	Learning	17 + 18
Nov 30	Learning	17 + 18
Dec 2	Language and Cognition	19
Dec 4	Language and Cognition	19
Dec 7	Language and Cognition + Review <b>Last day to allocate research participation bonus credit</b>	19
Dec 11 - 21	<b>Final exam during exam period (Chapters 15-19 + other)</b>	

### 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 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 (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 an individual's final grade. 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 7<sup>th</sup>, 2009**.

### **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 220-5567.

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

**Student Union Faculty Rep.:** Phone: 220-3913 [socialscirep@su.ucalgary.ca](mailto:socialscirep@su.ucalgary.ca)

**Important Dates**

The last day to drop this course and **still receive a fee refund** is **Sep 18<sup>th</sup>, 2009**. The last day to withdraw from this course is **Dec 8<sup>th</sup>, 2009**.