

NEURAL BASIS OF BEHAVIOUR

PSYC 3250 3.0 Section N

Term W 2008-09

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Course Description

This course presents the fundamentals of the physiology of behaviour. Special importance is placed on the information-processing properties of the nervous system in order to provide a uniform framework for the understanding of such topics as perception, attention, movement, motivation, and learning. Some questions we will tackle are: Why do you itch? Why can you see dim stars in your peripheral vision but not be looking at it. Why does a hair in your mouth feel so big; whereas you can not feel the same hair if it was on your back? This course requires as a prerequisite PSYC 1010, PSYC2240 [i.e. Biological Basis of Behaviour], or permission of the course director.

Course Format

Lectures/paper discussion/movies with reading assignments and extensive use of computer and internet resources.

Readings

The course will primarily use Carlson's Physiology of Behavior (9th Edition). The text will be supplemented with internet resources, movies and lectures. I highly recommend that you make use of the CD that comes packaged with your textbook. It has a lot of good examples and can make a useful study aide.

Final mark will be based on:

Exams	Option or Option	
	1	2
Term Test on Chapters 2 to 4	40%	50%
Final Exam (on all material in course)	60%	50%

The student will have the option to choose the final calculation of the mark to be Option 2 upon written request. Otherwise the calculation of the mark

will be made with Option 1. This written request must be made only by e-mail to desouza@yorku.ca only.

Plagiarism & Academic Dishonesty

Please see the Department of Psychology's policy on plagiarism and academic dishonesty at <http://www.psych.yorku.ca/undergrad/honesty.html>

Tentative Schedule for PSYC 3250 N (Thursdays)

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Dr. Joseph DESOUZA

<u>Date</u>	<u>Topic</u>	<u>Reading</u>
Thurs. March 5	Introduction Neglect Neurons	Chpt. 1 (pgs 7-8) Chpt. 2
Thurs. March 12	Neural Conduction & Synaptic Transmission	Chpt. 2
Thurs. March 19	Neuroanatomy	Chpt. 3
Thurs. March 26	Psychopharmacology	Chpt. 4
Thurs. April 2	2hr Term Test Research Methods	pg7-8, Chpts 2,3,4 Chpt. 5
Thurs. April 9	Research Methods – Neuroimaging	Chpt. 5
Thurs. April 16	Visual System Perception and Action	Chpt. 6
Thurs. April 23	Auditory, Somatosensory, Vestibular and the rest of the senses	Chpt. 7
Thurs. April 30	Neural Basis of Motor Control	Chpt. 8
Thurs. May 7	Sleep & Learning	Chpt. 9 & 13
Thurs. May 14	Learning, Memory & Amnesia	Chpt. 13 & 14
In Exam period - TBD	Final exam	Chapt.1 (pgs 7-8) & 2,3,4,5,6,7,8,9,13,14