

FOUNDATIONS OF BEHAVIORAL NEUROSCIENCE (PSYC 2401)
(Fall Term, 2016)

Meeting Time: Mon., 7:00-10:00 pm, ATAC 1006

Instructor: Dr. Michael Wesner

<i>Office Location:</i>	<i>Office Hours:</i>	<i>Phone:</i>	<i>Email</i>
SN 1040	Tues. 5:30 – 6:30 Thurs. 5:30 – 6:30	Office: 343-8457 SNAP Lab: 343-8418 Vision Lab: 346-7756	michael.wesner@lakeheadu.ca

<i>Graduate Assistants</i>	<i>Office Hours:</i>	<i>Phone:</i>	<i>Email</i>
Sarah Arthurs Rebecca Tzalazidis	by appointment by appointment	CAL: 343-8168	sarthurs@lakeheadu.ca rtzalazi@lakeheadu.ca

Required Textbook: Bear, Connors & Paradiso, *Neuroscience: Exploring the Brain*, 4th Ed.

Recommended book: John P.J. Pinel, *A Colorful Introduction to the Anatomy of the Human Brain*

Additional readings will be mentioned at the start of class & available on-line at

<http://flash.lakeheadu.ca/~mwesner/BIOreadings>. Sarah will keep a running list of these required readings. NOTE: My parent web site is <http://flash.lakeheadu.ca/~mwesner>.

Course Schedule

<i>Date</i>	<i>General Topics</i>	<i>Assigned Chapters</i>
9/12	Introduction & Human Neuroanatomy	CH. 1 & CH. 7 with Appendix
9/19	Human Neuroanatomy	CH. 7 with Appendix CH. 14: CNS Motor (pp. 483-505) CH. 18: Limbic System (pp. 621-625) & additional readings
9/26	Human Neuroanatomy	CH. 7 with Appendix CH. 15: Hypothal., Pituitary & ANS (pp. 521-538) & additional readings
10/3	Cellular Structure	CH. 2
10/10	FALL BREAK	
10/17	FIRST EXAM (200 pts)	
10/24	Cellular Structure & Neurophysiology	CHs. 2, 3, 4
10/31	Neurophysiology	CHs. 3, 4, 5
11/7	Chemical Neurophysiology	CHs. 5, 6
11/14	Chemical Neurophysiology	CHs. 6, 15
11/21	Endocrinology	CH. 15: Hypothal. & Pituitary (pp. 521-531), CH. 17 & additional readings
11/28	Behavioral Endocrin. (Sex)	CH. 17 & additional readings
12/5	SECOND EXAM (200 pts)	

There will be two exams this term, each worth 200 pts (total for this term represents 40% of your final mark). **The exams will be given during the class period dates indicated above.** About half the exam questions will cover lecture material, the other half from the textbook, readings and slides. Under **NO** circumstances will you be allowed to take a make-up exam!

If you think there is a problem with taking the exams at the above times, see me **the first or second week of classes.**

TENTATIVE TOPICS FOR THE WINTER TERM

Visual & Auditory Sensory Systems	CHs. 9-11
Motor Physiology	CHs. 13, 14
Homeostasis: The Physiology of Motivation	CH. 16
Biorhythms	CH. 19
Physiology of Learning & Memory	CH. 23-25
Cognitive Function & Disorders	CH. 21, 22

The third and fourth exams given this winter term will each be worth 300 points. There are **1000 possible points** for the year (i.e., 2 more exams this winter term representing 60% of your mark). Final grades will be adjusted according to overall class performance.

NOTE 1-Bonus points: You may earn up to a maximum of 3 additional bonus points to be added to your final mark in one of two ways, or in combination:

1. Participate in Psychology Department approved research studies that are posted throughout the academic term(s) on <http://lupsycho.sona-systems.com>. An account will be created for you by 2nd week of classes. You must complete participation in studies by last day of classes.
2. Submit a synopsis of a recent or historical journal article. This involves choosing a seminal or newly developed article published in a globally recognized neuroscience journal that interests you, write a 500-word (2 pages double spaced) critical commentary about that article, and submit a copy of your synopsis and the article to the instructor by the last day of classes. Each submitted synopsis is worth 1.5 bonus points.

NOTE 2-Accommodations: Lakehead University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you think you may need accommodations, you are strongly encouraged to contact Student Accessibility Services (SAS) and register as early as possible. For more information, please visit: <http://studentaccessibility.lakeheadu.ca>