FUNDAMENTALS OF NEUROSCIENCE

(PSYCH 2F03E) Syllabus for Summer 2007

Note: for the most up-to-date version of this syllabus, please consult the course web page at http://psych.mcmaster.ca/2f03summer

Instructor

Dr. Dan Bosnyak, bosnyak@mcmaster.ca

Office hours: by appointment.

Schedule

Lectures: Tuesday and Thursday Evenings, 18:30-21:30, in PC/155

Course Description

Fundamentals of nervous system and endocrine function in humans and animals, including neurophysiology, neural transmission and neuroanatomy.

Prerequisite: PSYCH 1A03, 1AA3, and credit or concurrent registration in BIOLOGY 1A03 or 1K03; or registration in Honours Biology and Psychology or the Bachelor of Health Sciences (Honours) program.

Evaluation

Midterm test 35%
Final exam 50%
Anatomy Exam 15%

Tests and exams

A one-hour midterm test will take place on July 12 during the class time, in a location to
be determined, and will cover material from the first 6 lectures. A 30 minute anatomy test will take place July 26 at the end of class time. A two-hour final exam will take place August 2 during regular class time and will cover material from all 13 lectures. Both the midterm and final will consist entirely of multiple-choice questions. The anatomy exam will consist of filling in labels on supplied diagrams.

Missed Exams

If a student must miss an exam due to illness, then as per McMaster's Policy For Absence from School Due to Illness or Compassionate Reasons "... you must bring appropriate documentation to the Office of the Associate Dean of Science (Studies) within one week of the original date of the missed work, and fill out the "Information For Missed Term Work Form". For further details see http://www.science.mcmaster.ca/~associatedean/services/exemptions.html.

Required readings:


Lecture topics and readings:

Week 1 (June 19,21): Introduction to Neuroscience, and How neurons communicate.
Required reading: Chapters 2&5

Week 2 (June 26,28): The organization of the nervous system, and Effects of drugs on the brain.
Required reading: Chapters 3&4

Week 3 (July 3,5): Vision and Audition.
Required reading: Chapters 6 & 7

Week 4 (July 10,12): Midterm this week – Wrap up previous topics and review.
Required reading: None.

Week 5 (July 17,19): Emotion and Learning and Memory.
Required reading: Chapter 10 & 13

Week 6 (July 24,26): Neurological and Psychiatric disorders. (anatomy test)
Required reading: parts of Chapters 14-16 to be determined

Week 7 (August 1,3): Guest Lecture? (final exam)
Required reading: to be determined
**Calculator requirement:**

Calculators will not be required during tests.

**Academic integrity:**

Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension from the university.

It is your responsibility to understand what constitutes academic dishonesty. For information on the various kinds of academic dishonesty please refer to the Academic Integrity Policy, specifically Appendix 3, located at http://www.mcmaster.ca/senate/academic/ac_integrity.htm.

The following illustrates only three forms of academic dishonesty:
1. Plagiarism, e.g. the submission of work that is not one's own or for which other credit has been obtained.
2. Improper collaboration in group work.
3. Copying or using unauthorized aids in tests and examinations.

*Syllabus last revised: June 20, 2007.*