FUNDAMENTALS OF NEUROSCIENCE

(PSYCH 2F03E) Syllabus For Summer 2006

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 at mcmaster.ca

Office hours: by appointment.

Schedule

Lectures: Tuesday and Thursday Evenings, 18:30-21:30, in ABB/136

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

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Midterm test</td>
<td>35%</td>
</tr>
<tr>
<td>Final exam</td>
<td>50%</td>
</tr>
<tr>
<td>Anatomy Exam</td>
<td>15%</td>
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</tbody>
</table>

Tests and exams

A one-hour midterm test will take place on July 13 during the class time, in the lecture room, and will cover material from the first 6 lectures. A 30 minute anatomy test will take place July 27 at the end of class time. A two-hour final exam will take place August
3 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](http://www.science.mcmaster.ca/~associatedean/services/exemptions.html).

**Required readings:**


**Lecture topics, readings, and links to lecture outlines (to be added to the course web page prior to each lecture):**

**Week 1 (June 20): Introduction to Neuroscience, and How neurons communicate.**
Links to lecture outlines: to be added.
Required reading: Chapters 1&2

**Week 2 (June 27): The organization of the nervous system, and Effects of drugs on the brain.**
Links to lecture outlines: to be added.
Required reading: Chapters 3&4

**Week 3 (July 4): Vision and Audition.**
Links to lecture outlines: to be added.
Required reading: Chapters 6 & 7

**Week 4 (July 11): Somatosensation and Motor Movement (midterm this week).**
Links to lecture outlines: to be added.
Required reading: Chapter 8

**Week 5 (July 18): Emotion and Learning and Memory.**
Links to lecture outlines: to be added.
Required reading: Chapter 11 & 13

**Week 6 (July 25): Neurological and Psychiatric disorders. (anatomy test)**
Links to lecture outlines: to be added.
Required reading: parts of Chapters 14-18 to be determined

Week 7 (August 1): Guest Lecture? (final exam)
Links to lecture outlines: to be added.
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, 2006.