

NEUROPSYCHOLOGY (PSYCH2D03)

Syllabus For Winter 2008

Note: For the most up-to-date version of this syllabus, and further information, please see the online version of this course web page at <http://www.science.mcmaster.ca/psychology/2d03/>

Instructor: Sue Becker

Office hours: by appointment. Email the course account (psy2d03 at univmail dot cis dot mcmaster dot ca) stating the reason for the request.

Course Assistance

please use LearnLink (accessible via www.LearnLink.mcmaster.ca or the "Little red schoolhouse" icon on campus clusters). Your userid is your student number, and password is your birthdate, in the form year-month-day e.g. 1984-04-11 (you need the dashes). Go to 'Courses' --> 'Psychology Programme' --> 'Psychology 2D03' --> 'Psych 2D03 Discussion'. From there, you can post messages, and view other students' messages and replies from your TA's and/or instructor.

Teaching Assistants: for email addresses (in parentheses) add @mcmaster.ca

- Michael Chrostowski (*chrostm*)
- Xue Han(*hanx3*)
- Chris Sevigny (*sevigncv*)
- Trent Toulouse(*touloutm*)

Lecture schedule: Tu We Fr 15:30-16:20 BSB/147

Course Objectives

The main objective of this course is to give the student an understanding of the neural mechanisms underlying a wide range of psychological functions. We examine brain function by drawing on converging evidence from a wide range of approaches including behavioural testing of both healthy individuals and those with neuropsychological disorders, functional neuroimaging and other electrophysiological measures, with an emphasis on clinical case studies.

Evaluation

3 term tests, 10% each 30%

Final exam 50%

2 Mini-essays, 10% each 20%

Term test locations TBA. For all tests and final exam, bring your McMaster Student ID, and a pencil for filling in the multiple choice answer sheets. Final exam is cumulative (covers entire term).

Required readings:

Selected chapters from course text: Kolb & Whishaw, Fundamentals of Human Neuropsychology, 5th edition. Worth Publishers, 2003.

Approximate schedule for lectures:

(links to lecture outlines to be added to the course web page at least 1 day prior to each lecture, password required; Readings will be finalized by the 2nd week of classes):

Weeks 1-2: Jan 8, 9, 11, 15, 16, 18

Lecture 1. Intro and course outline. Lecture 2. Some history of neuropsychology and origins of the human brain (Readings: Chapters 1 and 2, textbook). Lecture 3,4,5. drugs & brain (Readings: Chapter 6, and a few selected sections of chapters 4-5 TBA). Lecture 6: essay writing.

Assignment 1: write a short essay on drugs of addiction and the brain. Due in 3 weeks.

Week 3. Jan 22, 23, 25: Structural and functional brain imaging and neuropsych disorders**Week 4. Jan 29, 30, Feb 1: Brain asymmetry and hemispheric disconnection syndrome**

Test 1: Feb 1

Week 5. Feb 5, 6, 8: Visual object recognition and visual agnosias**Week 6: Feb 12, 13, 15: Vision for action and spatial cognition**

Reading week: Feb 18-23

Week 7-8: Feb 26, 27, 29, March 4, 5, 7: Auditory perception, language and language deficits

Test 2: March 4 or 5

Weeks 9-10. March 11, 12, 14, 18, 19 (21 is good friday): Temporal lobes, memory and mood disorders**Weeks 11-12 March 25, 26, 28, Apr 1, 2, 4, 8: Frontal lobes, executive functions and schizophrenia**

Test 3: April 1 or 2