YORK UNIVERSITY  
FACULTY OF HEALTH  
DEPARTMENT OF PSYCHOLOGY

PSY3250 3.0  
Neural Basis of Behaviour  

Summer 2 (SU2) 2012  
Tues. & Thurs. 2 - 5 p.m.  
Building / Room: ACE / 001

COURSE DETAILS

Instructor | Dr. G. Turner | Email: grturner@yorku.ca
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Office Hours | Tues. & Thurs. 12-1pm  
Room 244 BSB  
Office phone: 416.736.2100 x33538
Teaching Assistant | Tina Weston | westont@yorku.ca
Wadsworth, Cengage Learning, USA

Course Description:  
This course will review the neural bases of behaviour, with an emphasis on human cognitive  
function and dysfunction. Initial lectures will consist of a general introduction to neuroanatomy,  
cortical organization and methods used by cognitive neuroscientists. These will be followed by  
lectures focusing on specific areas of cognitive functioning and related disorders (e.g., attention  
and neglect; memory and amnesia; language and aphasia etc). Case reports will be used to  
illustrate key points and students will be required to examine the relationships between brain,  
behaviour and cognitive function using a case-based approach.

Prerequisites: AK/AS/HH/SC/PSYC 1010 6.00 or AK/HH/PSYC 2410 6.00, with a minimum grade of C;  
AK/AS/HH/SC/PSYC 2240 3.00 or AK/HH/PSYC 3145 3.00. Course credit exclusion: None.

Evaluation:  
| Term Test | 35% (July 12, 2012) |
| Term Paper | 20% (Due: Beginning of last class, August 02, 2012) * |
| Final Exam | 45% (To be scheduled in the exam period) |

* Late assignments will **not** be accepted. See policy for missed tests/paper deadlines below.

Note: The last day to drop the course without receiving a grade on your transcript is July 20.

ACADEMIC POLICIES

Missed Tests / Term paper deadlines
1. Appropriate documentation verifying the circumstances for the missed test, exam or term paper deadline must be provided within one week (7 calendar days) of the missed exam. Failure to provide appropriate documentation will result in a grade of 0. One of the following forms of documentation stating the reason for missing the test, exam or term paper deadline MUST be provided:
(A) Tests, exams or term paper deadlines missed for medical reasons must be supported by an Attending Physician’s Statement. The Attending Physician’s Statement must include (i) the full name, mailing address and telephone number of the Physician, (ii) state the nature of the illness and its duration and (iii) a statement that the illness and/or treatment would have SERIOUSLY affected the student’s ability to study and perform over the period in question, not just that they were ill and were seen by a doctor. Notes without such wording will not be accepted.

(B) Tests or exams missed for non-medical reasons must be supported by appropriate documentation (i.e., copy of a death certificate, automobile accident report, etc.) Pre-booked travel is not a reasonable excuse for missing a test or exam.

2. In the case of a missed test or term paper deadline that is justified as per 1A or 1B above, the grade component will be distributed to the final exam.

**Academic Guidelines**

All students are expected to familiarize themselves with the following information, available on the Senate Committee on Academic Standards, Curriculum & Pedagogy webpage (see Reports, Initiatives, Documents)

http://www.yorku.ca/secretariat/senate_cte_main_pages/ASCP.htm  
http://www.yorku.ca/secretariat/senate/committees/ascp/index-ascp.html

- Senate Policy on Academic Honesty and the Academic Integrity Website
- Ethics Review Process for research involving human participants
- Course requirement accommodation for students with disabilities, including physical, medical, systemic, learning and psychiatric disabilities
- Student Conduct Standards
- Religious Observance Accommodation

**COURSE OUTLINE**

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<thead>
<tr>
<th>DATE</th>
<th>TOPIC</th>
<th>READINGS</th>
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| June 26, 2012 | **Introduction to studying the neural basis of behaviour (Approaches & Methods)** | Readings:  
- Chapter 3 pp. 51-88 |
| June 28, 2012 | **Brain Structure & Function (Introduction to basic neuroanatomy)** | Readings:  
- Chapter 1: 2-30;  
- Chapter 2: 39-46 |
| July 03, 2012 | **The Agnosias (Disorders of Sensory Functioning)** Term-Paper Tutorial | Readings:  
- Chapter 6 pp. 145-176  
- Chapter 7 pp. 178-187 |
| July 05, 2012 | **The Apraxias (Disorders of Motor Control)** | Readings:  
- Chapter 5 pp. 108-144 |
| July 10, 2012 | **Amnesic Syndromes (Memory Disorders)** | Readings:  
- Chapter 10 pp. 265-301 |
<p>| July 12, 2012 (TERM TEST) | <strong>Term Test (2 hours)</strong> | No readings |</p>
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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Readings</th>
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<tbody>
<tr>
<td>July 17, 2012</td>
<td>Aphasic Syndromes (Language Disorders)</td>
<td>- Chapter 9 pp. 231-264</td>
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<td>July 19, 2012</td>
<td>Neglect Syndromes (Disorders of Attention)</td>
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<td>July 24, 2012</td>
<td>Frontal Lobe Syndromes (Executive Dysfunction)</td>
<td>- Chapter 11 pp. 302-335</td>
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<td>July 26, 2012</td>
<td>Affective Disorders (Neuropsychiatric Syndromes)</td>
<td>- Chapter 12 pp. 336-364</td>
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<td>August 02, 2012</td>
<td>The Syndrome “Quiz” (Uncommon neurological syndromes)</td>
<td>- Chapter 16 pp. 466-497</td>
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<tr>
<td>(TERM PAPER DUE)</td>
<td>Course Wrap-up &amp; Pre-exam Review</td>
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Course Review. No readings assigned