

**Faculty of Health
Department of Psychology
PSYC 3250 3.0 Section M
NEURAL BASIS OF BEHAVIOUR
Winter, 2017 (ROOM 103 LSB)**

Instructor and T.A. Information

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Course Prerequisite(s): Course prerequisites are strictly enforced.

- HH/PSYC 1010 6.00 (Introduction to Psychology), with a minimum grade of C.
- HH/PSYC 2240 3.00 (Biological Basis of Behaviour)

Course website: [Moodle](#)

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.

Learning Outcomes

Upon completion of this course, students should be able to:

1. Demonstrate in-depth knowledge of the neural basis of behaviour.
2. Articulate trends in neuro-psychology.
3. Express knowledge the neural basis of behaviour in written form.
4. Describe and explain limits to generalizability of research findings in neural basis of behaviour.
5. Demonstrate ability to relate information neuro-psychology to own and others' life experiences.

Specific Learning Objectives

At the end of the course you should:

1. Be able to review a neurological case relating to cognitive dysfunction and identify relevant presenting signs and symptoms;
2. Understand the nature of the cognitive domain(s), and the particular aspects of that domain, that appear to be principally impacted;
3. Be able to relate these signs and symptoms to a brain region or network of regions;
4. Know how to conduct a comprehensive differential diagnosis analyses and present your diagnoses with respect to the likely etiology and neuropathology involved in the case.

Required Text

Banich, M.T. & Compton, R.J. (2011). Cognitive Neuroscience, 3rd edition. New York: Wadsworth, Cengage Learning, USA

*** Note that this text is in its final printing and there are limited new copies available in the bookstore. Copies should be readily available from multiple sources including on Amazon (new and used). In addition, I have placed multiple copies on reserve in Scott library.**

Course Requirements and Assessment

Assessment	Date Due	Weighting
Term Test	February 09, 2017	35%
Term Paper	March 23, 2017 (Start of Class!)	20%
Final Exam	In Exam Period	45%
Total		100%

Grading as per Senate Policy

The grading scheme for the course conforms to the 9-point grading system used in undergraduate programs at York (e.g., A+ = 9, A = 8, B+ = 7, C+ = 5, etc.). Assignments and tests* will bear either a letter grade designation or a corresponding number grade (e.g. A+ = 90 to 100, A = 80 to 90, B+ = 75 to 79, etc.)

(For a full description of York grading system see the York University Undergraduate Calendar - calendars.students.yorku.ca/2016-2017/academic-and-financial-information/academic-services/grades-and-grading-schemes)

Late Work/Missed Tests or Exams

Students with a documented reason for missing the term test, such as illness, compassionate grounds, etc., which is confirmed by supporting documentation (Attending Physician Statement which can be found at: <http://registrar.yorku.ca/pdf/attending-physicians-statement.pdf>), and provided within 7 calendar days of the original deadline, will write a final cumulative exam. Revised deadlines for the term paper for validated medical reasons will be determined on an individual basis, but in no case will exceed 7 calendar days following the original deadline.

IMPORTANT NEW INFORMATION REGARDING MISSED TESTS:

For any missed tests or late assignments, students **MUST** complete the following online form which will be received and reviewed in the Psychology undergraduate office. [HH PSYC: Missed Tests/Exams Form](#) . Failure to complete the form within 7 calendar days of the original deadline will result in a grade of zero for the test/assignment.

Add/Drop Deadlines

For a list of all important dates please refer to: [Important Dates](#)

Important dates

Last date to add a course **without** permission of instructor (also see Financial Deadlines)

Last date to add a course **with permission** of instructor (also see Financial Deadlines)

Last date to drop a course without receiving a grade (also see Financial Deadlines)

Course Withdrawal Period (withdraw from a course and receive a “W” on the transcript – see note below)

Winter

Jan. 18

Feb. 1

March 10

March 11 -

Apr. 5

Academic Integrity for Students

York university takes academic integrity very seriously, please visit [an overview of Academic Integrity at York University](#) from the Office of the Vice-President Academic.

The following links will assist you in gaining a better understanding of academic integrity and point you to resources at York that can help you improve your writing and research skills:

- [Information about the Senate Policy on Academic Honesty](#)
- [Online Tutorial on Academic Integrity](#)
- [Information for Students on Text-Matching Software: Turnitin.com](#)
- [Beware! Says who? A pamphlet on how to avoid plagiarism](#)
- [Resources for students to help improve their writing and research skill](#)

Test Banks:

The offering for sale of, buying of, and attempting to sell or buy test banks (banks of test questions and/or answers), or any course specific test questions/answers is not permitted in the Faculty of Health. Any student found to be doing this may be considered to have breached the Senate Policy on Academic Honesty. In particular, buying and attempting to sell banks of test questions and/or answers may be considered as “Cheating in an attempt to gain an improper advantage in an academic evaluation” (article 2.1.1 from the Senate Policy) and/or “encouraging, enabling or causing others” (article 2.1.10 from the Senate Policy) to cheat

Electronic Devices During a Test/Examination:

Electronic mobile devices of any kind are not allowed during a test or examination. Students are required to turn off and secure any electronic mobile device in their bag which is to be placed under the chair while a test/exam is in progress. Any student observed with an electronic device during a test/exam may be reported to the Undergraduate Office for a potential breach of Academic Honesty.

Academic Accommodation for Students with Disabilities:

While all individuals are expected to satisfy the requirements of their program of study and to aspire to do so at a level of excellence, the university recognizes that persons with disabilities may require reasonable accommodation to enable them to do so. The [York University Accessibility Hub](#) is your online stop for accessibility on campus. The [Accessibility Hub](#) provides tools, assistance and resources. Policy Statement

Policy: York University shall make reasonable and appropriate accommodations and adaptations in order to promote the ability of students with disabilities to fulfill the academic requirements of their programs.

The nature and extent of accommodations shall be consistent with and supportive of the integrity of the curriculum and of the academic standards of programs or courses.

Provided that students have given sufficient notice about their accommodation needs, instructors shall take reasonable steps to accommodate these needs in a manner consistent with the guidelines established hereunder.

For Further Information please refer to: [York university academic accommodation for students with disabilities policy](#)

Course Materials Copyright Information:

These course materials are designed for use as part of the PSYC 3250 3.0M course at York University and are the property of the instructor unless otherwise stated. Third party copyrighted materials (such as book chapters, journal articles, music, videos, etc.) have either been licensed for use in this course or fall under an exception or limitation in Canadian Copyright law.

Copying this material for distribution (e.g. uploading material to a commercial third-party website) may lead to a violation of Copyright law. [Intellectual Property Rights Statement](#)

COURSE OUTLINE		
DATE	TOPIC	READINGS
Jan. 05, 2017	Introduction to studying the neural basis of behaviour (Approaches & Methods)	<u>Readings:</u> - Chapter 3 pp. 51-88
Jan. 12, 2017	Brain Structure & Function (Introduction to basic neuroanatomy)	<u>Readings:</u> - Chapter 1: 2-30; - Chapter 2: 39-46
Jan. 19, 2017	The Agnosias (Disorders of Sensory Functioning) Term-Paper Tutorial	<u>Readings:</u> - Chapter 6 pp. 145-176 - Chapter 7 pp. 178-187
Jan. 26, 2017	The Apraxias (Disorders of Motor Control)	<u>Readings:</u> - Chapter 5 pp. 108-144
Feb. 02, 2017	Amnesic Syndromes (Memory Disorders)	<u>Readings:</u> - Chapter 10 pp. 265-301
Feb. 09, 2017 (TERM TEST)	Term Test (3 hours)	No readings
Feb 16, 2017	Aphasic Syndromes (Language Disorders)	<u>Readings:</u> - Chapter 9 pp. 231-264
Feb. 23, 2017	READING WEEK	See readings for next week (and start your term papers!)
March 02, 2017	Neglect Syndromes (Disorders of Attention)	<u>Readings:</u> - Chapter 11 pp. 302-335
March 09, 2017	Frontal Lobe Syndromes (Executive Dysfunction)	<u>Readings:</u> - Chapter 12 pp. 336-364
March 16, 2017	Affective Disorders (Neuropsychiatric Syndromes)	<u>Readings:</u> - Chapter 14 pp. 395-427
March 23, 2017 (TERM PAPER DUE)	Neurodevelopment and Aging	<u>Readings:</u> - Ageing: 459-463 - Dementia: 471-488
March 30, 2017	Syndrome Sleuthing Course Review	Course Review (no readings assigned)

