

## Diseases of the Brain & Mind: A Clinical Perspective (PSYC68H3)

<http://www.utoronto.ca/~registrar/calendars/calendar/Psychology.html#PSYC68H3>

### Course coordinators:

**Hanan Domloge**, M.Ed, Program Advisor & Course Support:

U of T Scarborough (Tel: 416-208-4867) (Email: hdomloge@utoronto.ca)

**Krista L. Lanctôt**, PhD: Brain Sciences Program, Sunnybrook Health Sciences Centre

### Teaching Assistants:

David Nguyen - [davi.nguyen@mail.utoronto.ca](mailto:davi.nguyen@mail.utoronto.ca)

Eliyas Jeffay - [elijasj@gmail.com](mailto:elijasj@gmail.com)

\* office hours by appointments only – please email either TA

Winter term: Jan 2014-April 2014

Lecture: 2 hours/wk for 12 weeks

Tutorials: 4 tutorials, each 2hrs. Tutorials are offered on 1 day (~ 50 students/tutorial)

**Tuesdays from 5-7pm\***, running from January 6 - April 4, 2014

### Learning Objectives:

- Diagnoses
- Burden of illness
- Neurobiology
- Treatments

### Course Description:

This class will provide an understanding of the principal methods used to diagnose, investigate and treat a range of neurological diseases from a clinical perspective. This lecture based course will provide a conceptual and practical appreciation of modern and traditional neuroscience techniques. Taught by the faculty of the Brain Sciences Research Program at Sunnybrook Health Sciences Centre, this course is designed for all students wishing to have an advanced understanding of various diseases of the brain and mind.

Week	Date	Lecture 5-7pm	Tutorial	
1	Jan 7, 2014	Essentials of Clinical Pharmacology	Dr. Krista Lanctôt	
2	Jan 14, 2014	Psychotherapy	Dr. Neil Rector	#1: assessment scales 7-9 pm J Rogojanski/ V Vorstenbosch

<b>3</b>	Jan 21, 2014	Neuroimaging and Dementia	Dr. Sandra E. Black	
<b>4</b>	Jan 28, 2014	Stroke	Dr. R. Swartz	#2: Neuroimaging 7-9pm J Ramirez/ D Crane (essay assigned)
<b>5</b>	Feb 4, 2014	Parkinson's Disease	Dr. Mario Masellis	
<b>6</b>	Feb 11, 2014	Multiple Sclerosis	Dr. Anthony Feinstein	(Essay due)
	Feb 18, 2014	Reading Week!		
<b>7</b>	Feb 25, 2014	Adolescent Mental Health	Dr. John Teshima	#3: Depression video 7-9 pm
<b>8</b>	Mar 4, 2014	Epilepsy	Dr. E. Bui	
<b>**Mid-term**</b>				
<b>9</b>	Mar 11, 2014	Mood	Dr. Anthony Levitt	
<b>10</b>	Mar 18, 2014	Sleep	Dr. Brian Murray	#4: Neuroimaging 7-9 pm J Ramirez/ D Crane
Mar 23, 2014 <b>**Drop date**</b>				
<b>11</b>	Mar 25, 2014	Anxiety	Dr. Peggy Richter	
<b>12</b>	Apr 1, 2014	Delirium	Dr. Rob Jaunkalns	
	Apr 5-9, 2014	Study Break		
	Apr 10-26, 2014	Exams		

Evaluation:

Midterm test	30%	Multiple Choice (2 wks before drop date)
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Essay	20%	Max. 5 pages
Tutorials	20%	5% x 4 tutorials
Final exam	30%	Multiple choice

**Midterm:** The midterm will consist of 80 multiple choice questions and will be worth 30% of your final mark. It will cover lectures 1-7 (inclusive) including material learned from tutorials #1 and #2. The date/time/location is projected to be after the 8<sup>th</sup> lecture but the exact details will be posted as an announcement on blackboard once it has been confirmed by the registrars office.

**Essay Assignment:** Every clinical experiment conducted is plagued with limitations with respect to the experimental design. To this end, you will be required to submit a **review and critical analysis** of an empirical article of your choice, so long as it is related to the topics covered in the course (i.e., pharmacology, psychotherapy, dementia, stroke etc.). More specifically, you are required to introduce the topic, summarize the methodology, findings and clinical implications. Following this you will provide, in detail, recommendations of how you would modify the experiment to improve the scientific merit of the study and reduce the number of limitations the original study had. In other words, you will summarize a study and then describe a possible follow up study. To support your arguments, you must cite and reference other articles (empirical articles, reviews, meta-analyses...etc).

As for formatting, you must follow either APA 5 or 6 style (please choose one and be consistent throughout). You must include a title page, body and references (no abstract). The length of the body can be at maximum 5 pages long (double spaced, 12 pt Times New Roman with 1" margins) and you must include at least 10 references from peer-reviewed journals. The papers will be evaluated in the following spheres: appropriateness of article, insight, clarity, writing style, organization, formatting, title page & references.

**Tutorials:** There will be a total of 4 tutorials and the rooms will be announced at least one week prior on blackboard. Each tutorial will be worth 5% of your final grade and you will be evaluated along the following areas: attendance, participation and through a short quiz at the end.

**Final Exam:** The final exam will consist of 80 multiple choice questions and will be worth 30% of your final mark. It will cover lectures 8-14 (inclusive) including material learned from tutorials #3 and #4. The date/time/location will be posted as an announcement on blackboard once it has been confirmed by the registrars office. Additionally, it will also be available on the [UTSC Final Exam Schedule](#).

### **Policies and Procedures:**

- I. **Midterm Exam Policies & Procedures.** The Registrar typically finalizes the term test schedule sometime during the first few weeks of class. Given the material for which you are responsible, you can trust that the midterm exam will be held after Week 7. As soon as we are provided the midterm exam date, time, and location, we will post this information on the Course Blackboard.

- II. Make-Up Exam Policies & Procedures.** A make-up exam will be held two weeks following the scheduled date of the midterm exam. Students will be permitted to take the make-up exam only if they are unable to appear **on the date of the midterm exam** due to a **verified illness**, a **serious family emergency** (e.g., a death in the family), or **religious observances**. With respect to absences due to illness, students must provide a valid **UTSC Medical Certificate** indicating:
- (a) that the student sought medical attention on the day of the exam (not the day before or after),
  - (b) the nature/timeline of the student's problem and the diagnostic tests that were performed, and
  - (c) how the problem prevented the student from writing the regularly scheduled midterm exam.

Note that physicians do not have the authority to excuse a student's absence; this falls within the jurisdiction of the course instructor. Medical certificates must be signed by the physician and include his or her contact information in order to be accepted. Students who miss the midterm exam must submit their documents within three days of the midterm exam date either to me (SW418) or to the Department of Psychology's Administrative Assistant, Nina Dhir (SW427F). Students will be informed as to whether or not their documents have been accepted within five days of the date of the original midterm exam. Students whose documents are accepted will be provided with the date, time, and location of the make-up exam. Students whose documents are not accepted (or who fail to appear for the make-up exam) will automatically receive a grade of zero on the midterm exam.

- III. Final Exam Policies & Procedures.** The scheduling of final exams and the granting of petitions to defer final exams are matters that fall entirely within the jurisdiction of the Registrar's Office. If you have any concerns relating to your final exam attendance, please contact the Registrar.

- IV. Email Policies & Procedures.** Students have two basic kinds of questions: *substantive questions* that directly and solely concern the content of the course (i.e., either the lectures or the readings) and *administrative questions* that concern all other course-relevant matters (e.g., exam format). In either case, I strongly encourage you to contact the teaching assistants (Eliyas Jeffay and David Nguyen). Note that administrative emails will not receive a reply: if the question you have asked has already been answered in the course syllabus or announcements, then it does not require a reply and thus will not receive one; if the question you have asked has not already been answered elsewhere, then it will likely be of interest to the class as a whole and thus will be addressed on the Course Blackboard. Please be sure to check the course syllabus and all course-relevant announcements before emailing your questions to us, as 80% of all the questions we receive have already been answered elsewhere. All emails must include your full name and your student number in order to receive a reply.

## Standards & Services

- I. **Academic Integrity.** The University of Toronto treats academic offenses very seriously. Common academic offenses include: using someone else's ideas or words in one's own work without proper acknowledgment (i.e., plagiarism); including false, misleading, or concocted citations in one's own work; using or possessing an unauthorized aid in any test or exam; obtaining unauthorized assistance on any assignment; providing unauthorized assistance to another student; submitting one's own work for credit in more than one course without the permission of the instructor; falsifying or altering any documentation required by the University (including, but not limited to, doctor's notes). Offenders are caught and sanctions can be severe (zero in the course, suspension, or even expulsion). Students are expected to know and respect the *Code of Behaviour on Academic Matters*, which can be found at

<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>

- II. **The Writing Centre.** Your performance in this class will depend in large part upon your ability to communicate clearly and effectively. The Writing Centre supports student learning at any stage in the writing process, from planning an outline to polishing a final draft. Their services include online resources, drop-in hours, one-on-one consultations, and writing workshops. Additional information can be found at

<http://ctl.utsc.utoronto.ca/twc/main>

- III. **Access Ability Services.** The principal function of AccessAbility Services is to ensure that the policies, practices, procedures, and programs at UTSC are inclusive to ensure the equal access to students with disabilities. The office thus provides accommodations to students with a documented learning, physical, sensory, or mental health disability or medical condition. Additional information can be found at

<http://www.utsc.utoronto.ca/~ability/>

- IV. **Volunteer Note Takers.** AccessAbility Services will need at least three **Volunteer Note Takers** to assist students with disabilities. Volunteers play an essential role in allowing students to access course materials to which they may otherwise not have access. Benefits to being a Volunteer Note Taker include receiving a certificate of appreciation, giving back to the UTSC community, and gaining valuable volunteer experience. Volunteers have also mentioned that being a Note Taker motivates them to attend class regularly, to be more attentive, and to take more comprehensive notes for themselves. Volunteering involves the following: registering online; attending lectures regularly; taking notes during each lecture; and providing a copy of the lecture notes to AccessAbility Services following each class (either by uploading their notes to the web service remotely or by visiting AccessAbility Services to have their notes scanned). Additional information can be found at

[http://www.utsc.utoronto.ca/~ability/involved\\_notetaker.html](http://www.utsc.utoronto.ca/~ability/involved_notetaker.html)

**V. Extra-Credit Work**

The only way that students can earn credit in this class is through their exam performance. I will not, *under any circumstances*, accept work from students for extra course credit. There will be no exceptions to this rule, so please do not email asking for one.

**Lecturer Appointments:**

Dr. Krista Lanctot:

Senior Scientist, Dept of Psychiatry and Brain Sciences Research Program,  
Sunnybrook Health Sciences Centre;  
Professor of Psychiatry and Pharmacology,  
University of Toronto

Dr. Neil Rector:

Full Professor  
Department of Psychiatry  
University of Toronto

Updated: Dec 16<sup>th</sup>, 2013

Scientist, Clinical Integrative Biology - Brain Sciences Program, Sunnybrook Research Institute  
Director of Research, Department of Psychiatry, Sunnybrook Health Sciences Centre  
Head, Anxiety Disorders Clinic, University of Toronto

Dr. Sandra Black:

Professor  
Department of Medicine, Division of Neurology  
Institute of Medical Science - *SGS Appointment*  
Graduate Department of Rehabilitation Science - *SGS Appointment*  
University of Toronto

Senior scientist, Clinical Integrative Biology - Brain Sciences Program (Director), Sunnybrook Research Institute  
Director, LC Campbell Cognitive Neurology Research Unit, Sunnybrook Health Sciences Centre  
Senior scientist, Rotman Research Institute, Baycrest Centre  
Site Director (Interim CEO and Scientific Director July 09), Heart and Stroke Foundation Centre in Stroke Recovery  
Medical Director, Regional Stroke Centre, North and East Greater Toronto Area  
Adjunct Professor, Kinesiology, University of Waterloo  
Deborah Ivy Christiani Brill Chair in Neurology, Department of Medicine, University of Toronto, and Sunnybrook Health Sciences Centre

Dr. Anthony Levitt:

Professor, department of psychiatry, University of Toronto  
Scientist, evaluative clinical sciences - Brain Sciences Program, Sunnybrook Research Institute

Dr. Peggy Richter:

Associate scientist, evaluative clinical sciences, Brain Sciences Research Program, Sunnybrook Research Institute  
Head, Frederick W. Thompson Anxiety Disorders Centre, Sunnybrook Health Sciences Centre  
Director, Clinic for OCD & Related Disorders, Sunnybrook Health Sciences Centre  
Affiliate scientist, neurogenetics section, Neurosciences Department, Centre for Addiction and Mental Health  
Associate professor, department of psychiatry, University of Toronto  
Associate member, graduate faculty, Institute of Medical Science, University of Toronto

Dr. Rob Jaunkalns:

Assistant Professor

Department of Psychiatry  
University of Toronto

Dr. John Teshima:

Assistant Professor  
Department of Psychiatry  
University of Toronto

Dr. E. Bui

Neurologist, Sunnybrook Health Sciences Centre,  
Clinician Teacher, Department of Medicine, Division of Neurology & Obstetrical  
Medicine Faculty of Medicine,  
University of Toronto

Dr. R. Swartz:

Scientist, evaluative clinical sciences - Brain Sciences Program, Sunnybrook Research  
Institute  
Assistant professor, department of medicine (neurology), faculty of medicine, University  
of Toronto  
Director, stroke research unit, neurology, Sunnybrook Health Sciences Centre  
Director, University of Toronto Stroke Program

Dr. Brian Murray:

Affiliate scientist, evaluative clinical sciences, Brain Sciences Research Program,  
Sunnybrook Research Institute  
Assistant professor, department of medicine, University of Toronto  
Director of integrated medical education, department of medicine, University of  
Toronto  
Vice-chair, Research Ethics Board, Sunnybrook Health Sciences Centre

Dr. Mario Masellis:

Associate scientist, evaluative clinical sciences, Brain Sciences Research Program,  
Sunnybrook Research Institute  
Lecturer, neurology, department of medicine, University of Toronto  
Research scientist, neurogenetics section, Centre for Addiction and Mental Health  
Clinician-scientist, neurology, department of medicine, Sunnybrook Health Sciences  
Centre  
Consultant neurologist, neurology, department of medicine, Sunnybrook Health  
Sciences Centre  
Co-director, Cognitive Neurology Research Unit, department of medicine, Sunnybrook  
Health Sciences Centre

Dr. Anthony Feinstein:



Associate scientist, physical sciences, Brain Sciences Research Program, Sunnybrook  
Research Institute

Director, neuropsychiatry program, Sunnybrook Health Sciences Centre

Professor, department of psychiatry, University of Toronto