PSY393H5F - Human Neuropsychology

Monday 9:00am – 12:00pm, EST.
Online Synchronous

Course Delivery

ONLINE VIA ZOOM/QUERCUS

The course will be delivered online via Zoom and the link for class will be posted online on Quercus (http://q.utoronto.ca). You will need to login to Zoom with your U of T email address in order to join the lectures. Please make sure that you are registered for a Zoom account using your UTORid and password (https://utoronto.zoom.us). Lectures will be delivered during the assigned course time (Mondays, 9:10 am – 12:00 pm EST). Lectures will be recorded and made available on Quercus for later viewing. There will be a synchronous participation component involving group discussions during the scheduled class time. Tests will be delivered online via Quercus (synchronous) and written assignments will be submitted electronically.

Learn Anywhere Guide for Students
https://library.utm.utoronto.ca/students/quercus/learn-anywhere

University of Toronto tech requirements for online learning

Contact Information

Dr. Anna Kosovicheva
a.kosovicheva@utoronto.ca

Office hours:
Virtual Office Hour (Zoom link will be on Quercus)
Mondays 12:30 – 1:30pm EST & by appointment.
In-Person Office Hour*
Tuesdays 10 – 11am & by appointment, 4063 CCT
*Students must follow University policies on Covid-19, including UCheck completion

Teaching Assistants:
Amira Abozaid
amira.abozaid@mail.utoronto.ca
Emma Mannan
emma.mannan@mail.utoronto.ca

Office hours: TA office hours will be announced separately on Quercus

Email policy: Emails should be sent to the email addresses listed above. Please include “PSY393” in the subject line, and allow up to 48 hours for the instructor or the TAs to reply to your email (not including weekends). If you’re having trouble understanding the material, please see one of us in office hours rather than sending an email.

Course Description

This course will review major topics in cognitive neuroscience, with an emphasis on human function. Sample topics include issues such as memory disorders and models of memory, split brain research, language and aphasia, attention, emotion, and executive functions.

Prerequisite: PSY201H5/equivalent, 290H5, 270H5
Learning Outcome

By the end of this course, you should be able to:
- Describe the major terms, concepts, theories, and methods in human neuropsychology
- Understand how the brain regulates behaviour
- Understand how brain damage contributes to behavioural outcomes
- Read, interpret, and synthesize the primary literature in the field

Reading Material


Required: You will be assigned a paper to read before each class, starting September 27th (see Course Outline). These readings will be posted on Quercus.

Course Evaluation

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Date</th>
<th>Grade percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm Exam</td>
<td>November 1st, 2021 at 9:10 am EST</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>TBA (exam period December 9 – December 21)</td>
<td>35%</td>
</tr>
<tr>
<td>Participation</td>
<td>Ongoing</td>
<td>10%</td>
</tr>
<tr>
<td>Paper Proposal</td>
<td>November 8th, 2021 at 9:10 am EST</td>
<td>5%</td>
</tr>
<tr>
<td>Term Paper</td>
<td>December 6th, 2021 at 9:10 am EST</td>
<td>20%</td>
</tr>
</tbody>
</table>

Midterm Exam (30%): The midterm exam will cover course material from September 13th through October 25th and will be administered online through Quercus beginning at 9:10am EST on November 1st. The exam will be closed-book, closed-notes.

Final Exam (35%): The final exam will be scheduled during the final exam period and administered online through Quercus. The exam will cover course material from November 8th through December 6th (i.e., it will be non-cumulative), although some questions may build on your knowledge of methods and anatomy covered throughout term. The exam will be closed-book, closed-notes.

Participation (10%): As part of this course, we will be reading and discussing recent papers in the field, and you will be graded based on discussion-based group work completed during class. The goal of these activities is for you to learn to read and interpret primary research and to think critically about scientific results. As such, your participation in these discussion activities is an important component of the course and you will be expected to read the assigned papers before class.

Paper Proposal (5%): You will complete a short assignment in preparation for writing your term paper, in which you will (1) identify a debate in neuropsychology, and (2) provide a list of articles supporting different positions in the debate, with a brief description of each. Further details on the paper proposal and term paper will be posted on Quercus and discussed in class.

Term Paper (20%): The term paper will be 4-5 double-spaced pages, in which you will identify and summarize a debate in neuropsychology. In your paper, you will describe two opposing views in the debate and the evidence supporting each side. Further details on the paper proposal and term paper will be posted on Quercus and discussed in class.

Term papers submitted through Quercus will be screened for possible plagiarism using the University's plagiarism detection tool. Please note the following:
Normally, students will be required to submit their course essays to the University’s plagiarism detection tool for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the tool’s reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University’s use of this tool are described on the Centre for Teaching Support & Innovation website (https://uoft.me/pdt-faq).

In accordance with university policy, you may opt out of using the University’s plagiarism detection tool. If you plan to opt out of the University’s plagiarism detection tool, please notify the instructor in writing at least two weeks before the term paper is due so that alternate arrangements can be made (e.g., providing notes and a draft or outline to support the originality of your work).

Course Webpage

The website associated with this course is accessible via http://q.utoronto.ca

Note: You don’t need to create a new login for Canvas; it already knows who you are. You just need your UTORid and password. This is the same login that gets you onto the wireless network with your laptop, and the same one that you use to check your email. If you’re confused about your UTORid or don’t remember your password, go to: https://www.utorid.utoronto.ca/

In order to access course material, monitor course information, and view your grades you must log into Canvas. If you have any general questions regarding Canvas, please visit the following help site: https://library.utm.utoronto.ca/faculty/canvas

IMPORTANT COURSE POLICIES **PLEASE READ**

Missed Test Special Consideration Request Process
Students who miss a test due to circumstances beyond their control (e.g. illness or an accident) can request that the Department grant them special consideration. Students must present their case to the Department (NOT the Instructor) by submitting a request via the online Special Consideration Request form at: https://utmapp.utm.utoronto.ca/SpecialRequest.

Important note: Once the test/exam is available online and you’re unable to write or have an approved request to miss, DO NOT at any point attempt to access the test/exam. If at any time you access the test/exam, you will NOT be able to submit a special consideration and/or your request will be refused.

If your request is approved by the department, the weight of the missed test will be redistributed to the final exam.

Extension of Time Special Consideration Request Process
Students who seek to be granted more time to complete their term work beyond the due date without penalty, owing to circumstances beyond their control (e.g., illness, or an accident), must do so by submitting a request directly to the Instructor for the period up to and including the last day of the term. The decision as to whether or not to apply a penalty for the specified period rests with the Instructor.

Students who seek to be granted more time to complete term work beyond the last day of the term must submit their request directly to the Department. This request covers the period following the last day of classes and ends the last day of the exam period. This is done by submitting a request via the online Special Consideration Request form at https://utmapp.utm.utoronto.ca/SpecialRequest. You are advised to seek advising by the departmental Undergraduate Counsellor prior to the deadline.

Supporting Documentation
The University is temporarily suspending the need for a doctor’s note or medical certificate for any absence from academic participation. However, you are required to use the Absence Declaration tool on ACORN found in the Profile and Settings menu to formally declare an absence from academic participation. The tool is to be used if you require consideration for missed academic work based on the procedures specific to our campus/department.
Missed Final Exam or Extension of Time beyond exam period
Missed final exams or for extensions of time beyond the examination period you must submit a petition through the Office of the Registrar. [http://www.utm.utoronto.ca/registrar/current-students/petitions](http://www.utm.utoronto.ca/registrar/current-students/petitions) and follow their procedures.

Penalties for Lateness
A penalty of 10% per calendar day (i.e., including week-ends and holidays, during which students are not able to submit term work) up to and including the last day of classes, will be applied by the Instructor. After the last day of classes, the penalty of 10% per calendar day will be applied by the Undergraduate Counsellor on behalf of the Department. No penalty will be assigned if request for special consideration, described above, was successful.

Academic Guidelines
It is your responsibility to ensure that you have met all prerequisites listed in the UTM Calendar for this course. If you lack any prerequisites you WILL BE REMOVED from the course up until the last day to add a course. Further information about academic regulations, course withdrawal dates and credits can be found in the University of Toronto Mississauga Calendar at: [http://www.erin.utoronto.ca/regcal/](http://www.erin.utoronto.ca/regcal/).

You are encouraged to read this material. If you run into trouble and need advice about studying, preparing for exams, note taking or time management, free workshops and advice are available from the Robert Gillespie Academic Skills Centre at 905-828-5406.

AccessAbility Services
The University provides academic accommodations for students with disabilities in accordance with the terms of the Ontario Human Rights Code. This occurs through a collaborative process that acknowledges a collective obligation to develop an accessible learning environment that both meets the needs of students and preserves the essential academic requirements of the University’s courses and programs. Students requiring academic accommodations for learning, physical, sensory, or mental health disabilities or medical conditions should contact the AccessAbility Office (2037B Davis Building), 905-828-3847. [http://www.utm.utoronto.ca/accessability/](http://www.utm.utoronto.ca/accessability/)

Privacy and Copyright Disclaimer
Notice of video recording and sharing (Download permissible; re-use prohibited)
This course, including your participation, will be recorded on video and will be available to students in the course for viewing remotely and after each session. Course videos and materials belong to your instructor, the University, and/or other source depending on the specific facts of each situation, and are protected by copyright. In this course, you are permitted to download session videos and materials for your own academic use, but you should not copy, share, or use them for any other purpose without the explicit permission of the instructor. For questions about recording and use of videos in which you appear please contact your instructor.

Lectures and course materials prepared by the instructor are considered by the University to be an instructor’s intellectual property covered by the Copyright Act, RSC 1985, c C-42. Course materials such as PowerPoint slides and lecture recordings are made available to you for your own study purposes. These materials cannot be shared outside of the class or “published” in any way. Posting recordings or slides to other websites without the express permission of the instructor will constitute copyright infringement.

Academic Honesty and Plagiarism
Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto Mississauga is a strong signal of each student’s individual academic achievement. As a result, UTM treats cases of cheating and plagiarism very seriously.

The University of Toronto’s Code of Behaviour on Academic Matters outlines behaviours that constitute academic dishonesty and the process for addressing academic offences. Potential offences include, but are not limited to:

In papers and assignments:
1. Using someone else’s ideas or words without appropriate acknowledgement.
2. Submitting your own work in more than one course without the permission of the instructor.
3. Making up sources or facts.
4. Obtaining or providing unauthorized assistance on any assignment.

On tests and exams:

1. Using or possessing unauthorized aids.
2. Looking at someone else’s answers during an exam or test.
3. Misrepresenting your identity.

In academic work:

1. Falsifying institutional documents or grades.
2. Falsifying or altering any documentation required, including (but not limited to) doctor’s notes.

With regard to remote learning and online courses, UTM wishes to remind students that they are expected to adhere to the Code of Behaviour on Academic Matters regardless of the course delivery method. By offering students the opportunity to learn remotely, UTM expects that students will maintain the same academic honesty and integrity that they would in a classroom setting. Potential academic offences in a digital context include, but are not limited to:

Remote assessments:

1. Accessing unauthorized resources (search engines, chat rooms, Reddit, etc.) for assessments.
2. Using technological aids (e.g. software) beyond what is listed as permitted in an assessment.
3. Posting test, essay, or exam questions to message boards or social media.
4. Creating, accessing, and sharing assessment questions and answers in virtual “course groups.”
5. Working collaboratively, in-person or online, with others on assessments that are expected to be completed individually.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. If you have questions or concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, you are expected to seek out additional information on academic integrity from your instructor or from other institutional resources.

Academic Rights

You, as a student at UTM, have the right to:

- Receive a syllabus by the first day of class.
- Rely upon a syllabus once a course is started. An instructor may only change marks’ assignments by following the University Assessment and Grading Practices Policy provision 1.3.
- Refuse to use the University’s plagiarism detection tool (you must be offered an alternative form of submission).
- Have access to your instructor for consultation during a course or follow up with the department chair if the instructor is unavailable.
- Ask the person who marked your term work for a re-evaluation if you feel it was not fairly graded. You have up to one month from the date of return of the item to inquire about the mark. If you are not satisfied with a re-evaluation, you may appeal to the instructor in charge of the course if the instructor did not mark the work. If your work is remarked, you must accept the resulting mark. You may only appeal a mark beyond the instructor if the term work was worth at least 20% of the course mark.
- Receive at least one significant mark (15% for H courses, 25% for Y courses) before the last day you can drop a course for H courses, and the last day of classes in the first week of January for Y courses taught in the
Fall/Winter terms.
- Submit handwritten essays so long as they are neatly written.
- Have no assignment worth 100% of your final grade.
- Not have a term test worth more than 25% in the last two weeks of class.
- Retain intellectual property rights to your research.
- Receive all your assignments once graded.
- View your final exams. To see a final exam, you must submit an online Exam Reproduction Request within 6 months of the exam. There is a small non-refundable fee.
- Privacy of your final grades.
- Arrange for representation from Downtown Legal Services (DLS), a representative from the UTM Students’ Union (UTMSU), and/or other forms of support if you are charged with an academic offence.

Equity Statement
The University of Toronto is committed to equity and respect for diversity. All members of the learning environment in this course should strive to create an atmosphere of mutual respect. As a course instructor, I will neither condone nor tolerate behaviour that undermines the dignity or self-esteem of any individual in this course and wish to be alerted to any attempt to create an intimidating or hostile environment. It is our collective responsibility to create a space that is inclusive and welcomes discussion. Discrimination, harassment and hate speech will not be tolerated. If you have any questions, comments, or concerns you may contact the UTM Equity and Diversity officer at edo.utm@utoronto.ca or the University of Toronto Mississauga Students’ Union Vice President Equity at vpequity@utmsu.ca.
Course Outline

Please note that this outline is subject to change depending on the needs of the class (we may need additional time to cover a topic). Any changes to the syllabus will be announced in class one week before.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Textbook (Recommended)</th>
<th>Papers to read before class (Required, posted on Quercus)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/13</td>
<td>Introduction Structure &amp; Function</td>
<td>Ch. 2</td>
<td></td>
</tr>
<tr>
<td>9/20</td>
<td>Structure &amp; Function Continued Methods</td>
<td>Ch. 3</td>
<td></td>
</tr>
<tr>
<td>9/27</td>
<td>Hemispheric specialization</td>
<td>Ch. 4</td>
<td><strong>Paper #1</strong> (Schalk et al., 2017, PNAS)</td>
</tr>
<tr>
<td>10/4</td>
<td>Perception</td>
<td>Ch. 5 (Sections 5.6-5.8)</td>
<td><strong>Paper #2</strong> (Pinto et al., 2017, Brain)</td>
</tr>
<tr>
<td>10/11</td>
<td><strong>Thanksgiving Day (No Class)</strong></td>
<td></td>
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</tr>
<tr>
<td>10/18</td>
<td>Object Recognition</td>
<td>Ch. 6</td>
<td><strong>Paper #3</strong> (Rouw et al., 2010 Journal of Neuroscience)</td>
</tr>
<tr>
<td>10/25</td>
<td>Attention</td>
<td>Ch. 7</td>
<td><strong>Paper #4</strong> (Arcaro et al., 2017, Nature Neuroscience)</td>
</tr>
<tr>
<td>11/1</td>
<td><strong>Midterm Exam</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/8</td>
<td>Action Paper proposal due at beginning of class</td>
<td>Ch. 8</td>
<td><strong>Paper #5</strong> (Chechlacz et al. 2010, Cognitive Neuropsychology)</td>
</tr>
<tr>
<td>11/15</td>
<td>Memory</td>
<td>Ch. 9</td>
<td><strong>Paper #6</strong> (Fornia et al., 2020, Nature Communications)</td>
</tr>
<tr>
<td>11/22</td>
<td>Language</td>
<td>Ch. 11</td>
<td><strong>Paper #7</strong> (Chen et al., 2017, Nature Neuroscience)</td>
</tr>
<tr>
<td>11/29</td>
<td>Cognitive Control</td>
<td>Ch. 12</td>
<td><strong>Paper #8</strong> (Huth et al., 2016, Nature)</td>
</tr>
<tr>
<td>12/6</td>
<td>Plasticity Final paper due at beginning of class</td>
<td>Ch. 5 (Section 5.9)</td>
<td></td>
</tr>
<tr>
<td>TBA</td>
<td><strong>Final Exam, scheduled during the exam period (Dec 9 – Dec 21)</strong></td>
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**Final exam:** During exam period, it is the student’s responsibility to be available for the entire exam period.