

PSY369H5S – Behavioural Neuroscience Laboratory IN-PERSON

Tuesday 3:00pm – 4:00pm ROOM: IB 320 Thursday 4:00pm – 6:00pm ROOM: DV 2062

Course Delivery

<u>Winter 2022 Return to Campus Update</u>: In order to curb the spread of COVID-19 amid the emergence of the Omicron variant, most in-person learning has been <u>delayed until Jan 31, 2022</u>. Keep in mind this date is subject to change as per the Universities need to monitor any new developments and will be keeping with the latest evidence and public health guidelines.

Delivery Method until January 31, 2022

ONLINE VIA Zoom: Please see the Quercus website for the course to find out how to attend the Zoom lectures which will be offered on the days and times specified above..

- Learn Anywhere Guide for Students
 https://library.utm.utoronto.ca/students/quercus/learn-anywhere
- University of Toronto tech requirements for online learning

Delivery Method after January 31, 2022

In person

Contact Information

Course CoordinatorCourse Instructors:Dr. Ashley MonksDr. Brett Beston

Email: <u>ashley.monks@utoronto.ca</u> Email: <u>brett.beston@utoronto.ca</u>

Office Hours via zoom

Dr. Monks will hold zoom office hours M 10-11. Appointments may also be made to meet either virtually or in person with Dr. Monks, other course instructors and the teaching assistants.

Dr. Robert Gerlai

Email: robert.gerlai@utoronto.ca

Dr. Melissa Holmes

Email: melissa.holmes@utoronto.ca

Email: <u>lj.martin@utoronto.ca</u>

Teaching Assistants:

Mahmoud Bitar m.bitar@mail.utoronto.ca Dr. Loren Martin

Havaahdaan Daal

harashdeep.deol@mail.utoronto.ca

Harashdeep Deol

Course Description

Supervised demonstration experiments designed to familiarize students with methods of collecting, analyzing, and reporting data from ethological and physiological experiments with animal subjects.

Email Policy

Please take advantage of course contact hours for help with understanding course content. Interactive discussion is far more effective for this, and so E-mail should **not** be seen as an alternative to attending office hours with your TA or instructor. Additionally, your classmates might benefit from your questions, so please ask questions during class time.

When you do decide to use E-mail, they need to come from an utoronto account and please include "PSY369" and the topic of your email in the subject line. We will try to respond to all emails within 2 business days. . E-mails regarding class material should be directed to your TA, who may choose to forward more difficult inquiries on to the Instructor.

Learning Outcomes

By the end of this course, you should be able to:

- Perform basic laboratory techniques used in neuroscience research and understand and apply principles of laboratory safety.
- Demonstrate knowledge of and recognize the most commonly used techniques in neuroscience for understanding the structure and function of molecules and tissues involved in neurobiological systems at all levels: molecular, cellular, and organismal.
- Apply the scientific process, including designing, conducting, and evaluating experiments and testing of hypotheses.
- Value ethical conduct in science.
- Appreciate scientific knowledge as something that is not static, but constantly expanding through the ongoing work of researchers.

Reading Material

Assigned Readings: There is no textbook for this course.

All readings will be available through Quercus.

Students are encouraged to read the assigned readings or watch posted videos before each lecture as this will facilitate and extend their knowledge acquired in class.

Course Evaluation

Weekly performance: 15% Weekly lab reports: 30%

Term test 1: 10% - in person April 5 Term test 2: 15% - in person April 7

Final paper: 30% - Submitted on course website

Missed test policy – students who are unable to participate in the term test(s) will have associated grades redistributed to their final paper.

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**

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 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/. You are encouraged to read this material. If you run into trouble and need advice about studying, preparing

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/

Privacy and Copyright Disclaimer

Notice of video recording and sharing (Download and 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 sources depending on the specific facts of each situation and are protected by copyright. Do not download, copy, or share any course or student materials or videos without the explicit permission of the instructor. For questions about recording and use of videos in which you appear please contact your instructor.

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.

<u>The University of Toronto's Code of Behaviour on Academic Matters</u> 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 <u>in the Code of Behaviour on Academic Matters</u>. 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 turnitin.com (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.

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. However, the assignment and test dates are fixed.

Course Outline

Date	Topic
January 11, 13	Scientific method, lab and chemical safety and animal ethics (Monks)-Zoom link on website
January 18, 20	Mouse as a model organism, sex and reproduction (Monks)-Zoom link on website
January 25, 27	Social behavior (Holmes) - Zoom link on website
February 1, 3	Zebrafish (Gerlai) – in person
February 8, 10	Learning and memory (Gerlai) – in person
February 15, 17	Pain (Martin) – in person
February 22, 24	Reading week!
March 1, 3	Neuroanatomy (Holmes) – in person
March 8, 10	Neurochemistry and electrophysiology (Martin) – in person
March 15, 17	Stress (Beston) – in person
March 22, 24	ELISA (Beston) – in person
March 29, 31	Genotyping and genetic manipulations (Monks) – in person
April 5	Term test 1 – 10% - in person
April 7	Term test 2 – 15% - in person