

PSY290H5 – Introduction to Physiological Psychology

Wednesday 9:00am – 12:00pm

Room Location: DV 2074

Contact Information

Dr. Brett Beston

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Office Hours:

To be determined at beginning of Semester

Teaching Assistants:

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Course Description

An examination of principles underlying the study of the nervous system and behaviour, including aspects of normal and abnormal development.

OBJECTIVE

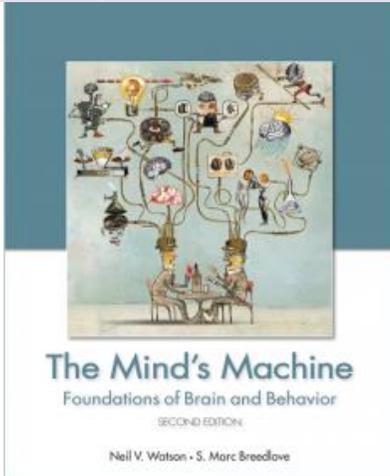
At the end of the course you will have an understanding of how the brain is organized, how it accomplishes some of the behaviours and cognitive functions and, for some systems, how it develops. You will also understand how neurotransmitters and hormones can influence behaviour. As mentioned above, the course will cover some popular topics such as feeding and sexual behaviour and therefore the course might be of interest to a wide spectrum of students. However, students interested in pursuing physiological psychology studies will find the course particularly useful. By completing this course you will fulfill the second year “Physiological Psychology” requirement. This course can be used as *one* of the prerequisites for third and fourth year physiological psychology courses (e.g., Hormones and Behaviour, Neural Plasticity, Cognitive Neurology, Motivational Systems, Biological Bases of Abnormal Behaviour, Psychobiology Laboratory etc).

CLASS FORMAT

Classes will consist of lectures, which will be done using slide-ware presentations. Partial presentations will be posted on Portal before class (usually as ‘.pdf’ files). PLEASE NOTE: These notes will be incomplete. Simply reviewing the posted lecture notes will not provide you with all the details discussed in lecture. You are, however, responsible for all the material covered in class and in your assigned readings EVEN IF IT DOES NOT APPEAR ON THE POWERPOINT PRESENTATION or in the book. This is important for you to understand, since on some occasions I may well bring up issues, ideas, and reports spontaneously in class.

Exclusion: PSY290H1/PSYB64H3

Reading Material



The Mind's Machine: Foundations of Brain and Behavior by Watson, & Breedlove ,
Second edition, 2016, Sinauer ISBN: **978-1-60535-276-3**
(designated MM throughout).
<http://www.sinauer.com/the-mind-s-machine-793.html>

Readings: Students are encouraged to read the assigned readings before each lecture as this will facilitate and extend their knowledge acquired in class. You should pay close (but not exclusive) attention to the material that overlaps with the lecture material. PLEASE NOTE: TESTS WILL INCLUDE MATERIAL PRESENTED FROM BOTH LECTURE AND ASSIGNED CHAPTERS

Course Evaluation

Tests and Exams (70%)

Term Test 1 - 20%

Term Test 2 - 20%

(Examination period) Final Exam - 30%

Term tests and final exam will be based on the material from the textbook, lectures and additional reading (if they are assigned). The term test and the final exam will consist of multiple-choice questions, shorter and longer questions as well as a diagrams requiring you to label parts of the brain (based on lectures and textbook). The shorter and longer questions will require students to recite information but also integrate knowledge analytically.

Although the **term tests** will not be explicitly cumulative (i.e., they will specifically ask questions from chapters covered during that section of the test (see course calendar), term test 2 will require students to have a foundation of knowledge from the first portion of the course. However, **the final exam WILL BE CUMULATIVE.**

Scientific Literacy activities (12%, equally distributed amongst the 3 activities)

(Due Jan. 12 , by 5pm) Searching a world of information

(Due Jan. 19, by 5pm) Reading Critically

(Due Feb. 9, by 5pm) The 'says/does' of writing

There will be 3 short guided activities to encourage students to explore science related concepts. Our goal is to encourage students to develop the ability to think critically about writing and develop scientific literacy skills that will become ever more critical to your academic development

Neuroscience in the media (10%)

(Due Mar. 26, by 5pm) Neuroscience in the Media

This assignment will ask you to apply your knowledge of neuroscience in exploring a neuroscience headline that has been presented in the media (e.g., "*A cheese sandwich is all you need for strong decision making*") Topics will be release to students by week 6 of the course and will be due by the start of class in week 10. **Normally, students will be required to submit their course essays to Turnitin.com 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 Turnitin.com reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of the Turnitin.com service are described on the Turnitin.com web site.

The Robert Gillespie Academic Skill centre will be available to provide support for your assignment the week before the assignment is due.

Course 'Engagement' Credit (CEC, up to a MAXIMUM 8%).

Students will receive credit for participating in course related activities. The list below outlines five different ways to earn course engagement credit. Completing Each activity is worth 4% of the final grade. **Students can select which activities they choose to contribute to (or not) up to a maximum of 8%!**

Participate in a peer review using peerScholar = 4%.

Over the course of the semester, students will have the opportunity to develop their scientific literacy and writing skill by completing a series of activities. Once completed, students There will be 4 opportunities during the term, **1% for each participation.**

Participate in our weekly in class questions = 4% (Please note: A purchase of TopHat software is required to participate in these activities).

- Participation in 75-100% of Top hat activities will be given 4% credit.
- Participation in 50-75% of Top hat activities will be given 3% credit.
- Participation in 25-50% of Top hat activities will be given 2% credit.
- Participation in 0-25% of Top hat activities will be given 1% credit.

Participate in Psy290 class research project = 4%. (please note: This activity is still tentative and is pending research ethics approval for fall 2015).

Help-a-Peer (0.5% each, up to 2% per week, to a maximum of 4% over the term). Students who provide an excellent, original answer on the Portal discussion forum, in response to another student's question regarding course material, will earn credit for their response. An excellent answer is one that correctly and articulately explains a conceptually challenging topic. The answer is original if no similar answer has been provided.

Create-a-Question (0.5% each, maximum of 2% per test, 4% over semester). As an optional exercise, students are encouraged to try to generate excellent test or exam questions of their own. Questions that are carefully and articulately worded, and that probe student understanding of important concepts will be considered for 'engagement' credit. *If the question is used on the test / exam, you will earn 2% extra credit percentage points on that test/ exam.* The instructor will not inform you in advance of the test / exam whether your question will be used, and you will not be given feedback if your answer is correct. If your question is used, it may be edited and / or otherwise modified by the instructor.

Course Engagement Credit must be completed by the last day of classes (April 1st).

Course Webpage

The website associated with this course is accessible via <http://portal.utoronto.ca>

Note: You don't need to create a new login for Blackboard; 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 Blackboard. If you have any general questions regarding Blackboard, please visit the following help site: <http://www.portalinfo.utoronto.ca/students.htm>

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>.

Students are to submit original supporting documentation (e.g., medical certificates, accident reports, etc.) to the Psychology Academic Counselor or drop it in the drop box located outside the Psychology office, Deerfield Hall, 4th Floor. Students have up-to one week from the date of the missed test to submit request. Late submissions will NOT be considered without a letter of explanation specifying and documenting the reasons for the lateness. .

Medical certificates or physician's notes must be completed by the Physician and MUST include the statement "This Student [name] was unable to write the test on [date(s)] for medical reasons". This documentation must show that the physician was consulted within one the day of the missed term test. A statement merely acknowledging a report of illness made by the student to the physician is NOT acceptable. For further information on this procedure please see:

<http://www.utm.utoronto.ca/psychology/undergraduate-studies/missed-testslate-submissions>

If you missed your test/assignment deadline for a reason connected to your registered disability, please be advised that the department will accept documentation supplied by the UTM AccessAbility Resource Centre.

IMPORTANT: The Department of Psychology verifies the authenticity of medical certificates by contacting medical offices. Students are NOT to make any changes or alteration to completed medical certificates. Students who submit forged or altered documentation are subject to severe academic penalties.

If your request is approved by the department, the value of the test will be redistributed to the final examination.

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.

Original supporting documentation (e.g., medical certificates, accident reports, etc.) must be submitted to the Psychology Academic Counselor or dropped off in the drop box located outside the Psychology office Deerfield Hall, 4th Floor. Students are expected to submit requests to the Department before the last day of the term, unless demonstrably serious reasons prevent them from doing so. In the event of an illness, medical certificates or doctor's notes must confirm that student was ill on the due date of the assignment (for a one-day extension). For a longer extension, documentation must specify the full duration during which academic work could not be carried out.

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> .

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 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

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/>

Academic Honesty and Plagiarism

Honesty and fairness are considered fundamental to the university's mission, and, as a result, all those who violate those principles are dealt with as if they were damaging the integrity of the university itself. When students are suspected of cheating or a similar academic offence, they are typically surprised at how formally and seriously the matter is dealt with -- and how severe the consequences can be if it is determined that cheating did occur. The University of Toronto treats cases of cheating and plagiarism very seriously. Please take the time to review the Academic Integrity website:

<http://www.utm.utoronto.ca/academic-integrity/students>.

- Common trends in academic offences:
- Plagiarizing/concocted references
- Collaboration/unauthorized assistance
- Purchasing work
- Recycling work - "double-dipping"
- Resubmitting of altered work for re-grading
- Electronic devices (cell phones) or any unauthorized aids
- Altering medical certificates and UofT documents

From the Code of Behaviour on Academic Matters: "It shall be an offence for a student to knowingly: represent as one's own any idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e. to commit plagiarism. Wherever in the Code an offence is described as depending on "knowing", the offence shall likewise be deemed to have been committed if the person ought reasonably to have known." All students must refer to this website to obtain information on what constitutes plagiarism. <http://www.writing.utoronto.ca/advice/using-sources/how-not-to-plagiarize>.

If questions arise after reading the material on the website, consult your instructor. **Plagiarism will not be tolerated.**

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.

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 25% or more 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.

If questions arise after reading the material on the website, consult your instructor.

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

Week	Topic	Notes
1 Jan. 6	Introduction, to brain and behaviour (activity 1 - searching a world of information)	Chapter 1
2 Jan. 13	Neurophysiology (activity 2 - Literature of Science)	Chapter 3
3 Jan. 20	Cells and Structure: The Anatomy of the Nervous System	Chapter 2
4 Jan. 27	TEST 1	
5 Feb. 3	Brain Asymmetry (activity 3 - Reading critically "says/does')	Chapter 15
6 Feb. 10	The Chemistry of Behaviour	Chapter 4
7 Feb. 24	Hormones and Sex	Chapter 8
8 Mar. 2	TEST 2	
9 Mar. 9	Neurodevelopment (activity 4 - Neuroscience in the Media)	Chapter 13
10 Mar. 16	Memory and Learning	Chapter 13
11 Mar. 23	The sensory motor system	Chapter 5
Mar. 30	TBD	(Neuroscience and the Media Due)

Final exam: It is the student's responsibility to be available for the entire exam period.