

THE UNIVERSITY OF TORONTO SCARBOROUGH Department of Psychology

PSYC75: Cognitive Psychology Laboratory, Winter 2024

1.0 CALENDAR DESCRIPTION

This course introduces conceptual and practical issues concerning research in cognitive psychology. Students will be introduced to current research methods through a series of practical exercises conducted on computers. By the end of the course, students will be able to program experiments, manipulate data files, and conduct basic data analyses.

2.0 COURSE INFORMATION

Prerequisite: [(PSYB01H3) or (PSYB04H3) or PSYC70H3] and [PSYB07H3 or STAB22H3 or

STAB23H3] and [PSYB51H3 or PSYB55H3 or PSYB57H3] and PSYC02H3

Exclusion: PSY379H, (PSYC58H3)

Recommended Preparation: PSYC08H3

Class Meeting Time: Tuesdays 11 am - 1 pm, SW 316 (there will be a few additional one-

hour tutorials held after lecture, from 1 pm – 2 pm, also in SW 316).

Textbook: There is no textbook for this course. Rather, students will be required to read a number of research articles relating to various topics in cognitive psychology (see 'Readings')

3.0 INSTRUCTOR AND TEACHING ASSISTANT CONTACT INFORMATION

Instructor: Professor Jonathan Cant [email: <u>jonathan.cant@utoronto.ca</u> (please put PSYC75 in the subject line of any emails)]

Virtual office hours: Mondays between 12 pm - 2 pm (online via Zoom), or by appointment; A Zoom link will be provided under the 'Announcements' section of Quercus, as well as pasted below, which will serve as the link for all online office hours. I will admit students from the waiting room and meet with them individually in turn; thus, there may be some wait time!

Zoom link for Professor Cant's office hours:

https://utoronto.zoom.us/j/89851748703

Teaching assistant: Greer Gillies (email: greer.gillies@mail.utoronto.ca)

TA virtual office hours: Time to be announced

4.0 ONLINE COURSE RESOURCES

This course uses the University's learning management system, Quercus, to post information about the course. This includes posting readings and other materials required to complete class activities and course assignments, as well as sharing important announcements and updates. The site is dynamic and new information and resources will be posted regularly as we move through the term, so please make it a habit to log in to the site on a regular, even daily, basis. To access the course website, go to the U of T Quercus log-in page at https://q.utoronto.ca. Once you have logged in to Quercus using your UTORid and password, you should see the link or "card" for PSYC75 Cognitive Psychology Laboratory. You may need to scroll through other cards to find this. Click on the PSYC75 Cognitive Psychology Laboratory link to open our course area, view the latest announcements and access your course resources. There are Quercus help guides for students that you can access by clicking on the "?" icon in the left side column.

SPECIAL NOTE ABOUT GRADES POSTED ONLINE: Please also note that any grades posted are for your information only, so you can view and track your progress through the course. No grades are considered official, including any posted in Quercus at any point in the term, until they have been formally approved and posted on ACORN at the end of the course. Please contact me as soon as possible if you think there is an error in any grade posted on Quercus.

5.0 DETAILED COURSE DESCRIPTION

This course has three main objectives. First, you will be introduced to a number of different methodological techniques used by cognitive psychologists to study the mind. Second, you will be given online experience collecting, preparing, and analyzing data, using computer software that is commonly used in cognitive psychology experiments (PsychoPy, Pavlovia, Excel, and SPSS). Third, you will develop your communication skills by presenting your results to others using both oral (poster presentations) and written (formal APA research manuscript) methods. Thus, by the end of this course you will have both increased your knowledge of some core principles in cognitive psychology (objective #1), and will have gained valuable practical experience running experiments, analyzing data, and presenting scientific results (objectives #2 and #3). These objectives will be achieved through the combination of online lectures, laboratory exercises, and tutorials. The first two formal lectures in the course (see table under 'Class Schedule and Readings' below) will teach students about basic principles in experimental design and data analysis in cognitive psychology. Next, a number of common research topics in cognition will be covered, and for each topic I will provide an online lecture to familiarize students with the history and current understanding of that topic in the field of cognitive psychology. Importantly, four of these topics will be chosen for further study through the use of online laboratory exercises (i.e., The Stroop Effect, The Global Precedence Effect, Priming, and the Spatial Cueing of Attention). Specifically, all students will take part in an online cognitive psychology experiment. The data collected from this exercise will be used by students to create both a research poster (presented during the last or second-to-last class of the semester) and a formal APA research paper (different components of the paper will be due at different points in the semester; see 'EVALUATION' and 'Important Dates' below for more details). Finally, the TA for this course will give a number of tutorials instructing students on

how to analyze data from cognitive psychology experiments (from 1 pm - 2 pm after lecture in SW 316, days of tutorials to be determined).

Learning Outcomes: As a student in this course, you can expect to develop and improve upon the following types of skills, all of which are important for future academic or work-related endeavors: critical reasoning (assessed via the written assignments and final examination), problem solving (assessed via the written assignments and final examination), public speaking (assessed via the poster presentation), and effective scholarly writing (assessed via the written assignments and final examination). Moreover, you will have developed knowledge of core topics in cognition and perception, and will be able to relate this knowledge to the broader question of how information is represented in the human brain. Finally, you will have gained valuable hands-on experience in multiple aspects of scientific research (i.e., data collection, data organization, statistical data analysis, data interpretation, data presentation), which is relevant not only to future academic work, but also to securing volunteer positions in several labs at UTSC and ultimately to applications for graduate school and future career paths.

References for Readings:

- **The Stroop Effect:** Stroop, J.R. (1935). Studies of interference in serial verbal reactions. *Journal of Experimental Psychology*, *28*, 643-662.
- **The Global Precedence Effect:** Navon, D. (1977). Forest before trees: The precedence of global features in visual perception. *Cognitive Psychology*, *9*, 353-383.
- **Priming:** Meyer, D.E., & Schvaneveldt, R.W. (1971). Facilitation in recognizing pairs of words: Evidence of a dependence between retrieval operations. *Journal of Experimental Psychology*, *90*, 227-234.
- **Spatial Cueing of Attention:** Posner, M.I., Snyder, C.R.R., Davidson, B.J. (1980) Attention and the detection of signals. *Journal of Experimental Psychology: General, 109*, 160-174.
- Visual Search: (1) Neisser, U. (1964). Visual search. *Scientific American 210*(6), 94-102. (2) Tresiman, A.M., & Gelade, G. (1980). A feature-integration theory of attention. *Cognitive Psychology, 12,* 97-136.
- **The Attentional Blink:** Raymond, J.E., Shapiro, K.L., & Arnell, K.M. (1992). Temporary suppression of visual processing in an RSVP task: An attentional blink? *Journal of Experimental Psychology: Human Perception and Performance*, 18, 849-860.
- Change Blindness: Rensink, R.A., O'Regan, J.K., & Clark, J.J. (1997). To see or not to see: the need for attention to perceive changes in scenes. *Psychological Science*, *8*, 368-373.

Class Schedule and Readings:

Class Schedule and Readings:							
Date	Topic	Reading					
January 9	Introduction to the course and	E-Prime User's Guide					
-	Basics of Experimental Design	Appendix B (posted on					
	for Cognitive Psychology	Quercus)					
January 16	Basics of Data Analysis for	,					
January 10	Cognitive Psychology						
January 23	The Stroop Effect	https://librarysearch.library.ut					
January 25	The otroop Enect	oronto.ca/permalink/01UTOR					
		ONTO INST/fedca1/cdi proq					
January 20	The Clabel Dress device Effect	uest journals 213791423					
January 30	The Global Precedence Effect	https://librarysearch.library.ut					
		oronto.ca/permalink/01UTOR					
		ONTO INST/fedca1/cdi_proq					
		uest journals 1293364957					
February 6	Priming (APA Introduction due)	https://librarysearch.library.ut					
		oronto.ca/permalink/01UTOR					
		ONTO INST/fedca1/cdi proq					
		uest miscellaneous 812156					
		27					
February 13	Spatial Cueing of Attention	https://librarysearch.library.ut					
	-γg	oronto.ca/permalink/01UTOR					
		ONTO INST/fedca1/cdi proq					
		uest journals 614277623					
February 17 – 23	READING WEEK, NO CLASS	dest journals 014277020					
Tebluary 17 – 25	(Deadline to complete all online						
	experiments is February 13;						
	Data from all experiments will be						
	released shortly thereafter)						
February 27	Tips for Data Analysis and						
	Writing Your Methods/Results						
	Section						
March 5	Visual Search	(1)					
		https://www.jstor.org/stable/p					
		df/24931530.pdf?casa token					
		=fDocdF cqm4AAAAA:f9uTg					
		xHy2nwOajaPTU7 3UHN0					
		UMbBsqs1VDmbbAkKuRrzk					
		bnUB9sx VCC0 YYOxAKbx					
		yM5rpQd4NQkS3IGQGuhRn					
		RDfCG1KVZ7R6x-					
		7jy6bn0LOOCg					
		TIYODHOLOOOG					
		(2)					
		(2)					
		https://librarysearch.library.ut					
		oronto.ca/permalink/01UTOR					
		ONTO INST/fedca1/cdi_proq					
		uest_miscellaneous_749710					
		<u>33</u>					

March 12	The Attentional Blink Tips for Making your Poster and Writing your Discussion Section (APA Method and Results sections due)	https://librarysearch.library.ut oronto.ca/permalink/01UTOR ONTO_INST/fedca1/cdi_proq uest_journals_614307232
March 19	Change Blindness	https://librarysearch.library.ut oronto.ca/permalink/01UTOR ONTO INST/fedca1/cdi unp aywall primary 10 1111 j 1 467 9280 1997 tb00427 x
March 26	Poster Presentations (Stroop and Global Precedence Effect)	
April 2	Poster Presentations (Priming and Spatial Cueing of Attention) (APA Discussion section due)	
To be determined	Final Exam	

6.0 EVALUATION

Participation in Laboratory Experiments (10%)

Assignment 1: APA Introduction (10%)

Assignment 2: APA Method and Results Sections (20%)

Assignment 3: APA Discussion Section (15%) Assignment 4: Poster Presentation (15%)

Final Exam (30%)

Participation in Laboratory Experiments (10%)

An integral component of this laboratory course is the opportunity to take part in four different cognitive psychology experiments, conducted online. These experiments will investigate: The Stroop Effect, The Global Precedence Effect, Priming, and the Spatial Cueing of Attention. The data generated during these experiments will be used by students to create both a research poster (presented on March 26 or April 2; see 'Schedule' and 'Important Dates' for more details) and a formal APA research paper (with the Introduction, Method and Results, and Discussion sections due February 6, March 12, and April 2, respectively). Thus, it is extremely important that students participate in the 4 online experiments, as the quality of their own and their classmates' poster and research paper critically depends upon having an adequate sample size to conduct statistical analyses. I will be making note of who participates in each online experiment, and each missed experiment carries a penalty of 2.5% of the students' final grade. No penalty will be applied if the student provides valid documentation for their absence (e.g., documented family emergency, or UTSC medical certificate). If the student does not wish to participate in the online experiments, they will be required to hand in four separate research papers (each 1000 words in length), the topic of which will be selected by the instructor in a one-on-one meeting with the student. The due dates of these four papers will be the date of the lecture covering each respective experiment (e.g., January 23rd for the Stroop Effect).

APA Introduction (10%)

During the first lecture of the semester, each student will select a topic for their research paper, choosing from the four topics covered in the online experiments (i.e., Stoop, Global Precedence Effect, Priming, or Spatial Cueing of Attention). If a student misses the first lecture, then the instructor will select a topic for them. The first component of the formal APA research paper will be the Introduction, which will be due on February 6. In general, the Introduction should be structured so as to first introduce the research topic, then provide an indepth review of the literature pertaining to that topic, and finish by introducing the current study (i.e., brief description of the design of the study and relevant hypotheses).

APA Method and Results Sections (20%)

The second component of the formal APA research paper will be the Method and Results sections, which will be due on March 12. The purpose of a Method section in a formal research paper is to provide the reader with enough information to understand the design of your study, and to replicate your findings, should they want to pursue that avenue. A detailed and well-written Method section can help a reader understand the results of a study, and typically includes separate sections describing the *Participants* who took part in the study, the *Apparatus and Equipment* used to conduct the study, and the *Design and Procedure* of the study (i.e., the sequence of events that a participant encounters while taking part in the study). The TA will help you to obtain information about the design and procedure of each online experiment by examining the scripts used to run the experiments, during the tutorial sections.

The Results section clearly describes the main findings in your study, and summarizes all of the relevant statistical tests that you conducted. It should start with a brief description of how you analysed your data (e.g., the type of experimental design you used, the type of statistical tests used), and then proceed to describe the results of the statistical tests in a clear and organized manner (e.g., if describing results from more than 1 dependent variable, results from each dependent variable should be grouped and separated from each other). A critical component of Results sections are figures and tables summarizing findings. You will be expected to generate your own figures and tables, based on the analysis of your particular data set (i.e., results from either the Stroop, Global Precedence, Priming, or Spatial Cueing experiment), and reference these visual aids at appropriate points in the Results section. You will receive instruction on how to import your data into Excel, how to appropriately organize and pre-process your data in Excel, and how to conduct relevant statistical tests in SPSS.

APA Discussion Section (15%)

The third component of the formal APA research paper will be the Discussion section, which will be due on April 2. The purpose of the Discussion is to provide an interpretation of the data described in the Results section. It should start with a brief summary of the main findings of your experiment, and then provide detailed interpretations of these findings, in relation to previous research that both supports and contradicts your interpretations. Near the end of your Discussion you should also discuss limitations of your study, future directions that this research could be taken into, and conclude with a paragraph summarizing your main results and interpretations.

Formatting: All components should be prepared according to APA format (see https://apastyle.apa.org/products/publication-manual-7th-edition and https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_style_introduction.html), should be written in 12-point font, should be double-spaced with 1 inch margins, and should include both a title page and reference list. The page limits for each section are (which do not include a title page and reference list):

Introduction: no longer than four pages double spaced

Method and Results: no limit

Discussion: no longer than **four** pages double spaced

While there is no upper limit for the number of references used, you should use at least 10 references in the Introduction (that are different from the references discussed in class) and 10 references in the Discussion (different from both the references discussed in class and used in the Introduction).

<u>NOTE:</u> all papers are due at the beginning of the specified class, and need to be submitted via the appropriate module on Quercus

Poster Presentation (15%)

In addition to written research papers, scientists communicate their findings to the academic community through the use of oral presentations. In this laboratory course you will give one type of oral presentation, a poster presentation, which will take place either on March 26 (if your research topic is The Stroop Effect or The Global Precedence Effect) or April 2 (if your research topic is Priming or the Spatial Cueing of Attention). Examples of poster presentations (made in PowerPoint) will be given in class, but briefly, a research poster summarizes and presents all of the relevant information covered in a research paper. Thus, there is an Introduction, Method, Results, and Discussion section. Good practices for making posters will be covered in class, but in general, you should use a little text as possible, in favour of multiple visual aids. Students will team up with one or two additional students to make and present their poster. A good strategy would be to form a group of 3, and allocate the work evenly. For example, one student could make and present the Introduction section of the poster, a second student could make and present the method and results, and the third student could make and present the discussion section. Each presentation should be no longer than 10 minutes in length, and will be followed by a five-minute question-and-answer period.

<u>NOTE:</u> a PDF version of the poster should be uploaded to Quercus before class on the day of your group's presentation.

Final Exam (30%)

The final examination will cover material from all of the lectures, laboratory experiments, tutorials, and assigned readings. Since some of the material presented in class will not be covered in the readings (and vice versa), it is important to both attend class and to read the required readings.

Important Dates

February 6: APA Introduction due

February 13: Deadline to complete all online experiments **March 12:** APA Method and Results sections due

March 26: First round of group poster presentations (The Stroop Effect and The Global

Precedence Effect)

April 2: Second round of group poster presentations (Priming and Spatial Cueing of

Attention)

APA Discussion section due

TBD: Final exam

<u>Policy on Late Assignments:</u> late assignments will lose 10% for each day past the deadline that they are not submitted. Extensions will only be granted with proper documentation (i.e., documented family emergency, or UTSC medical certificate). Please note, according to UTSC policy, I am not permitted to extend the deadline for any assignment past the last day of classes for the semester (April 8).

Masks in the classroom

While the mask mandate has been paused as of 1 July 2022, the use of medical masks continues to be strongly encouraged at U of T Scarborough in indoor settings where physical distancing is not possible. We ask everyone to respect each other's decisions, comfort levels, and health needs. Masks are available at all building entrances at U of T Scarborough and in all classrooms.

Department of Psychology Missed Term Work Policy

For missed term work (assignments and term tests) due to illness, emergency, or other mitigating circumstances, please follow the procedures outlined below.

Procedure:

- 1. Complete the Request for Missed Term Work Accommodations Form ("MTW Form").
- Email <u>BOTH</u> your MTW Form and Supporting Documentation to <u>jonathan.cant@utoronto.ca</u> according to the instructions specified below.

Supporting Documentation Requirements and Deadlines:

Reason for Missed Work	Documentation required for a <i>first</i> absence in the term	Documentation required for subsequent absences in the term	Deadline for submitting MTW form and supporting documentation
Illness or Injury	ACORN Absence Declaration	UofT Verification of Illness Form	within 2 business days of the missed work

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Bereavement	ACORN Absence Declaration	A death certificate or funeral announcement	within 2 business days of the missed work
University-sponsored athletic or artistic obligation at the varsity/provincial/national level	ACORN Absence Declaration	A note from a university staff member (advisor, coach, residence staff, etc.) who can substantiate the obligation, sent directly to the course email	10 business days IN ADVANCE of the missed deadline
	For missed TERM TE	ESTS,	
Disability-related reasons for students registered with AccessAbility Services	- Contact your AccessAbility consultant and have them write to the course email detailing the accommodations needed.		PREFERABLY IN ADVANCE of the missed work, or as soon as possible
	For missed ASSIGNMENTS, - If your desired accommodation is within the scope of your Accommodation Letter (e.g. your letter includes "extensions of up to 7 days" and you need 3 days), send your Accommodation Letter to the course email and specify how many days extension you are requesting.		
	- If your desired accommodation is outside the scope of your Accommodation Letter (e.g. your letter includes "extensions of up to 7 days" but you need more time than that), contact your AccessAbility consultant and have them write to the course email detailing the accommodations needed.		
Academic Conflict			
(e.g. two midterms at the same time)	Screenshot from Quercus demonstrating the conflict.		10 business days IN ADVANCE of the missed work
Religious Conflict	None required		THIOSOG WORK

Notes:

- The following reasons are not considered sufficient for missed term work: social activities, recreational travel, technological issues, avoidance of assessments or deadlines, work commitments
- <u>Missed Final Exams</u> are handled by the Registrar's Office and should be declared on eService.
- For ACORN absence declarations, the date you declare the absence is required to fall within the seven-day declaration period (i.e.) the absence cannot be submitted proactively or retroactively.
- Instructors cannot accept term work any later than five business days after the last day of class. Beyond this date, accommodations are only possible via the Registrar's Office petition process.
- If you are unable to submit your request within the specified number of business days, you
 must still email your instructor within that window to explain the nature of the delay.
 Exceptions to the deadlines are made only under exceptional circumstances.
- Multiple assignments due on the same day are <u>not</u> considered academic conflicts. Students are expected to manage their time effectively to meet assignment deadlines.
- Back-to-back tests/quizzes are <u>not</u> considered academic conflicts. Only overlapping activities are conflicts.
- Students are responsible for keeping their course timetables conflict-free. Students who register in two courses with overlapping lecture/tutorial/lab schedules will not be accommodated.

Next Steps:

After submitting your documentation, you will receive a response from your instructor or TA. The course instructor reserves the right to decide what accommodations will be made. Failure to adhere to any aspect of this policy may result in a denial of your request. You are responsible for checking your official U of T email and Quercus course announcements daily, as accommodations may be time-critical.

For missed assignments, do not wait for the instructor's response to resume work on your assignment. Extensions may be as short as one business day, depending on the nature of the illness/emergency. Complete your assignment as soon as you're able, and email it to your instructor.

If an accommodation is granted but a continued illness/emergency prevents you from meeting its requirements, you must <u>repeat</u> the missed term work procedure to request additional accommodations. Please make it clear in your subject line that you are requesting a second accommodation. Examples: If you were granted an extension for a paper but are still unable to meet the new deadline, or if you miss a <u>make-up</u> term test, you must submit another MTW form and supply documentation according to the "subsequent absences" column in the

chart above. *Note: In the case of a missed make-up test, an opportunity to write a second make-up test may not necessarily be provided.

NOTE: Assignments due at end of term

Instructors cannot accept term work any later than five business days after the last day of class. Beyond this date, you would need to file a petition with the Registrar's Office (https://www.utsc.utoronto.ca/registrar/term-work).

8.0 ADDITIONAL INFORMATION

Help With Writing

If you would like help with academic writing, the following resources are available to you:

- The Centre for Teaching and Learning (AC312) Writing Centre offers students one-to-one appointments and supplementary materials to help improve upon their writing skills. http://ctl.utsc.utoronto.ca/home/ http://ctl.utsc.utoronto.ca/twc/
- The English Language Development Centre offers support and specialized writing programs for students who do not speak English as their primary language. http://ctl.utsc.utoronto.ca/eld/
- Advice on academic writing http://www.writing.utoronto.ca/advice

Academic Integrity

The University treats cases of cheating and plagiarism very seriously. The University of Toronto's Code of Behaviour on Academic Matters

(http://www.governingcouncil.utoronto.ca/policies/behaveac.htm) outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences. Potential offences in papers and assignments include using someone else's ideas or words without appropriate acknowledgement, submitting your own work in more than one course without the permission of the instructor, making up sources or facts, obtaining or providing unauthorized assistance on any assignment.

On tests and exams, cheating includes using or possessing unauthorized aids, looking at someone else's answers during an exam or test, misrepresenting your identity, or falsifying or altering any documentation required by the University.

University's Plagiarism Detection Tool

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 web site (https://uoft.me/pdt-faq).

Use of Generative AI in Assignments

- The knowing use (e.g., copying, paraphrasing material) of generative artificial intelligence tools, including ChatGPT and other Al writing and coding assistants, for the completion of, or to support the completion of, an assignment, or any other form of academic assessment, may be considered an academic offense and is prohibited in this course.
- Representing as one's own an idea, or expression of an idea, that was Al-generated may be considered use of an unauthorized aid, which is a form of cheating and may be considered an academic offense in this course.

Equity, Diversity and Inclusion

The University of Toronto is committed to equity, human rights and respect for diversity. All members of the learning environment in this course should strive to create an atmosphere of mutual respect where all members of our community can express themselves, engage with each other, and respect one another's differences. U of T does not condone discrimination or harassment against any persons or communities.

The University of Toronto is a richly diverse community and as such is committed to providing an environment free of any form of harassment, misconduct, or discrimination. In this course, I seek to foster a civil, respectful, and open-minded climate in which we can all work together to develop a better understanding of key questions and debates through meaningful dialogue. As such, I expect all involved with this course to refrain from actions or behaviours that intimidate, humiliate, or demean persons or groups or that undermine their security or self-esteem based on traits related to race, religion, ancestry, place of origin, colour, ethnic origin, citizenship, creed, sex, sexual orientation, gender identity, gender expression, age, marital status, family status, disability, receipt of public assistance or record of offences.

University Land Acknowledgment

I wish to acknowledge this land on which the University of Toronto operates. For thousands of years, it has been the traditional land of the Huron-Wendat, the Seneca, and the Mississaugas of the Credit. Today, this meeting place is still the home to many Indigenous people from across Turtle Island and we are grateful to have the opportunity to work on this land.

Access Ability Services

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services as soon as possible.

AccessAbility Services staff (located in Rm AA142, Arts and Administration Building) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations (call <u>416-287-7560</u> or email <u>ability@utsc.utoronto.ca</u>). The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

Recording of classroom material by students

Recording or photographing any aspect of a university course - lecture, tutorial, seminar, lab, studio, practice session, field trip etc. – without prior approval of all involved and with written approval from the instructor is not permitted.

Literature Searches

Students can use the following resources when conducting literature searches to find relevant articles for their presentation and final essay:

The UTSC Library (AC235) http://www.library.utoronto.ca/utsc/

PubMed

http://www.ncbi.nlm.nih.gov/pubmed

PsychINFO

http://www.apa.org/pubs/databases/psycinfo/index.aspx

Google Scholar http://scholar.google.ca/

For Your Health

The Health and Wellness Centre (SL270, 416-287-7065) provides diagnostic, treatment and referral services for all illnesses ranging from the medical to psychological to health promotion. The professional staff of physicians, nurses and counselors provides personal advice and assistance with family issues, eating disorders, depression, stress, drug and alcohol abuse, relationship issues, a positive space for gender/sexuality issues, and more. http://www.utsc.utoronto.ca/wellness