Faculty of Health Department of Psychology PSYC 4180 6.0 Section F CRITICAL THINKING IN PSYCHOLOGY Wednesdays/ 8:30 am – 11:30 am ONLINE ONLY Fall/Winter 2020-21

Instructor and T.A. Information

Instructor: Michaela Hynie Office: 849 Kaneff Tower Office Phone: ext. 22996 Office Hours: Mondays 11am to 1 pm or by appt Email: mhynie@yorku.ca

T.A.: Michael Ruderman Email: <u>ruderman@yorku.ca</u> Office hours: In class

Course Prerequisite(s): Course prerequisites are strictly enforced

- □ HH/PSYC 1010 6.00 (Introduction to Psychology), with a minimum grade of C.
- □ HH/PSYC 2020 6.00 (Statistical Methods I and II) or substitutes
- □ HH/PSYC 2030 3.00 (Introduction to Research Methods) or substitutes
- □ Students must be in an Honours program in Psychology and have completed at least 84 credits (excluding (EDUC) education courses)

Course Credit Exclusions

Please refer to York Courses Website for a listing of any course credit exclusions.

Required Texts:

□ Weekly readings accessible from the course <u>eClass</u>

Course Website: eClass

Course Description

In this course, students will develop and practice critical thinking skills required to become responsible and analytical consumers of research in psychology. This course will include lectures, discussion, in-class workshops, peer review sessions, and student presentations. This course will be offered entirely on-line for the full academic year, using a combination of synchronous (live and simultaneous) and asynchronous (recorded and/or accessed at different times) activities.

Program Learning Outcomes

Upon completion of this course, students should be able to:

1. Demonstrate ability to think critically about applications of psychological findings reported in the media.

- 2. Demonstrate knowledge of variety of ways to express psychological findings in everyday life.
- 3. Critically identify myths or stereotypes in common discourse.
- 4. Recognize limits of conclusions based on inferential statistics
- 5. Demonstrate an ability to determine which discourses, questions and voices are missing from research

Specific Learning Objectives

Demonstrate the ability to collect, describe, understand, and think critically about research questions, results and inference, and how they are communicated in both scientific journals and in the media.

Demonstrate ability to gather, interpret, evaluate and integrate research from distinct (and sometimes conflicting) sources to arrive at an informed opinion.

Effectively communicate scientific research and informed conclusions on research in a range of communication media for a general public audience understanding level.

Demonstrate understanding of the strengths and limitations of different communication media and use this understanding to communicate science within them.

Demonstrate the ability to evaluate credibility of evidence using reason and logic.

Course Requirements and Assessment:

Details of assignments are available on the class website

Assessment	Date of Evaluation	Weighti
		ng
Assignment 1: Myth presentation	September 30	10%
Assignment 2: Who gets left out?	November 4	10%
Assignment 3: Statistics gone wrong	December 2	10%
Assignment 4: Qualitative bias assignment	January 27	10%
Assignment 5: Clear writing summary	February 24	10%
Assignment 6: Infographic presentations	March 24	5%
Assignment 7: Explain the debate	April 7	25%
Group Discussion Facilitation	Throughout the course	10%
Participation	Throughout the course	10%
Total		100%

* Assignments are due at the beginning of class.

Attendance Policy

Attendance is not mandatory but participation is. This is a capstone seminar course. Participation is evaluated based on participation in class activities, completion of in-class reflections and your contributions to class/discussion group discussions.

Late Work/Missed Tests or Exams

Late assignments will be accepted up to one week after the deadline including weekend days. If your assignment is late, you will be deducted a late penalty of 5% per day, including weekend days. Late assignments will not be accepted after one week of the missed deadline.

Missed in-class participation points and group discussion facilitations cannot be made up. Students with a documented reason for missing a deadline, such as illness, compassionate grounds, etc., which is confirmed by supporting documentation (<u>Attending Physician Statement</u>), may request accommodation from the Course Instructor. Further extensions or accommodation will require students to submit a formal petition to the Faculty.

If you are missing a deadline due to illness, compassionate grounds, etc., you must contact me (mhynie@yorku.ca) within 48 hours of missing the deadline.

Important New Information Regarding Missed Tests

For any missed tests or late assignments, students MUST complete the on-line form: <u>http://psychology.apps01.yorku.ca/machform/view.php?id=16179</u>, which will be received and reviewed in the Psychology undergraduate office.

Failure to complete the form within 48 hours of the original deadline will result in a grade of zero for the test/assignment.

Add/Drop Deadlines

For a list of all important dates please refer to: Fall/Winter 2020-2021 - Important Dates

	FA L L (F)	YE A R (Y)	WINT E R (W)
Last date to add a course without permission of instructor (also see Financial Deadlines)	Sept. 22	Sept. 22	Jan. 25
Last date to add a course with permission of instructor (also see Financial Deadlines)	Oct. 6	Oct. 27	Feb. 8
Drop deadline: Last date to drop a course without receiving a grade (also see Financial Deadlines)	Nov. 6	Feb. 5	Mar. 12
Course Withdrawal Period (withdraw from a course and receive a grade of "W" on transcript – see note below)	Nov. 7- Dec. 8	Feb. 6 - Apr. 12	Mar. 13- Apr. 12

*Note: You may withdraw from a course using the registration and enrolment system after the drop deadline until the last day of class for the term associated with the course. When you withdraw from a course, the course remains on your transcript without a grade and is notated as "W". The withdrawal will not affect your grade point average or count towards the credits required for your degree.

Academic Integrity for Students

York University takes academic integrity very seriously; please familiarize yourself with Information about the Senate Policy on Academic Honesty.

It is recommended that you review Academic Integrity using the <u>Academic Integrity toolkit</u> at <u>SPARK</u>

Test Banks

The offering for sale of, buying of, and attempting to sell or buy test banks (banks of test questions and/or answers), or any course specific test questions/answers is not permitted in the Faculty of Health. Any student found to be doing this may be considered to have breached the Senate Policy on Academic Honesty. In particular, buying and attempting to sell banks of test questions and/or answers may be considered as "Cheating in an attempt to gain an improper advantage in an academic evaluation" (article 2.1.1 from the Senate Policy) and/or "encouraging, enabling or causing others" (article 2.1.10 from the Senate Policy) to cheat.

Electronic Devices During a Test/Examination

Electronic mobile devices of any kind are not allowed during a test or examination. Students are required to turn off and secure any electronic mobile device in their bag which is to be placed under the chair while a test/exam is in progress. Any student observed with an electronic devise during a test/exam may be reported to the Undergraduate Office for a potential breach of Academic Honesty.

Academic Accommodation for Students with Disabilities

While all individuals are expected to satisfy the requirements of their program of study and to aspire to do so at a level of excellence, the university recognizes that persons with disabilities may require reasonable accommodation to enable them to do so. The <u>York University Accessibility Hub</u> is your online stop for accessibility on campus. The Accessibility Hub provides tools, assistance and resources.

Policy: York University shall make reasonable and appropriate accommodations and adaptations in order to promote the ability of students with disabilities to fulfill the academic requirements of their programs.

The nature and extent of accommodations shall be consistent with and supportive of the integrity of the curriculum and of the academic standards of programs or courses. Provided that students have given sufficient notice about their accommodation needs, instructors shall take reasonable steps to accommodate these needs in a manner consistent with the guidelines established hereunder.

For Further Information please refer to: <u>York university academic accommodation for students</u> with disabilities policy.

Course Materials Copyright Information

These course materials are designed for use as part of the PSYC 4180 course at York University and are the property of the instructor unless otherwise stated. Third party copyrighted materials (such as book chapters, journal articles, music, videos, etc.) have either been licensed for use in this course or fall under an exception or limitation in Canadian Copyright law.

Copying this material for distribution (e.g. uploading material to a commercial third-party website) may lead to a violation of Copyright law. <u>Intellectual Property Rights Statement</u>.

Grading as per Senate Policy

The grading scheme for the course conforms to the 9-point grading system used in undergraduate programs at York (e.g., A + = 9, A = 8, B + - 7, C + = 5, etc.). Assignments and tests* will bear either a letter grade designation or a corresponding number grade (e.g. A + = 90 to 100, A = 80 to 90, B + = 75 to 79, etc.)

(For a full description of York grading system see <u>York Academic Information—Grades and</u> <u>Grading Schemes</u>

Fall 2019 Weekly Class Readings

Weekly class readings outside the required textbook can be found on the course <u>eClass</u> site. Class meetings will include recorded and live lectures and guest lectures, Group Discussion Facilitations, and assignment workshop time. Office hours will also be held during class time

Week & Date	Торіс	Readings	Due
Week 1:	Scholar Strike:	Teach-ins at scholarstrike.ca	
September 9		Holder, J. & Harris, K. (2020). Where calling the police isn't the only	
•		option. Bloomberg CityLab	
		Ontario Human Rights Commission (2018). A collective impact:	
		Interim report on the inquiry into racial profiling and racial	
		discrimination of Black persons by the Toronto Police Service	
Week 2:	What do we	Introduction to the syllabus and the technology	Discussion topic 1:
September	mean by	Using technology and participating in class	What is critical
16	critical	comp comology and participating in class	thinking?
10	thinking?	Levy, N. (2017). Nudges in a post-truth world. The Journal of	unning.
	unnking.	Medical Ethics, 43, 495-500.	
		<i>Medical Ethics</i> , 45, 455-500.	
		Dwyer, C. (2017). What is critical thinking? Definitions and	
		conceptualizations. In <i>Critical thinking: Conceptual perspectives and</i>	
		<i>practical guidelines</i> (pp. 57-83). Cambridge: Cambridge University	
		Press.	
Week 3:	Confirmatory	The 7 Deadly Sins of Psychology by Chris Chambers—Chapter 1:	Discussion 2: What
September 23	bias inside	The sin of bias	motivates myths
September 25	psychology		and beliefs?
	and out	Hughes S. Luddy E. & Lamba S. (2012) Missoneantions about	and beners?
	and out	Hughes, S., Lyddy, F., & Lambe, S. (2013). Misconceptions about	
		psychological science: A review. <i>Psychology Learning &</i>	
		<i>Teaching</i> , <i>12</i> (1), 20-31.	
		Skitka, L. J. (2020). An optimistic take on avoiding liberal (and other	
		sources of) bias. <i>Psychological Inquiry, 31</i> , 88-89.	
Week 4:	Describe some	5 minutes, 5 slides: Describe common myths in psychology	Assignment 1:
	common	5 minutes, 5 sides. Describe common myths in psychology	Assignment 1: Myths and how
September 30			
Week 5:	myths!	Cuest Lesture Dr. Derive Cicheme	they are supported
October 7	Who gets left	Guest Lecture, Dr. Darius Gishoma	Discussion topic 3:
October /	out?	Hannish I Hains S. I. & Namenson A (2010) The	Who is missing and
		Henrich, J., Heine, S., J., & Norenzayan, A. (2010). The	why does that
		weirdest people in the world? <i>Behavioral and Brain Sciences</i> ,	matter?
		33(2/3), 1-75	
		Roberts, S. O., Bareket-Shavit, C., Dollins, F. A., Goldie, P.	
		D., & Mortenson, E. (2020). Racial inequality in psychological	
		research: Trends of the past and recommendations for the	
		future. Perspectives on Psychological Science, 1-15.	
		Nulses M. Herry D. Witters I. 9. I. C. H. (2017) Th	
		Nielsen, M., Haun, D., Kärtner, J., & Legare, C. H. (2017). The	
		persistent sampling bias in developmental psychology: A call to	
D 1		action. Journal of Experimental Child Psychology, 162, 31-38.	
February 17	READING		
	WEEK		

Week 6: February 24	Visualize this	Art Based Research, Guest lecture: Mike Ruderman Designing infographics, Guest lecture: Jenna-Louise Palmer-Dyer	Assignment 5: Clear writing
		Leavy, P. (2010). A/r/t: A poetic montage. <i>Qualitative Inquiry</i> , 16(4), 240-243.	summary
Week 7 March 3	The Sin of Bean Counting	The 7 Deadly Sins of Psychology by Chris Chambers – Chapter 7 Tafreshi, D., Slaney, K., L., & Neufeld, S. D. (2016). Quantification in psychology: Critical analysis of an unreflective practice. <i>Journal of Theoretical and Philosophical Psychology</i> ,	Discussion topic 10: When quantitative, when qualitative?
Week 8: March 10	Working together	 36(4), 233-249 Community Based Research, Guest Lecture Collins, S. E., Clifasefi, S. L., Stanton, J., The LEAP Advisory Board, Straits, K. J. E., Gil-Kashiwabara, E., Rodriguez Espinosa, P., Nicasio, A. V., Andrasik, M. P., Hawes, S. M., Miller, K. A., Nelson, L. A., Orfaly, V. E., Duran, B. M., & Wallerstein, N. (2018). Community-based participatory research (CBPR): Towards equitable involvement of community in psychology research. <i>American</i> <i>Psychologist</i>, <i>73</i>(7), 884–898. 	Discussion topic 11: Collaborative science, why not?
Week 9 March 17	Flex week	Office hours and in-class meetings	
Week 10: March 24		Assignment 6: Presenting and evaluating infographics	
Week 11: November 25	Stats support	In class statistics support	
Week 12: December 2	Bias in neuroscience	Resnick, B. (September 9, 2016). There's a lot of junk fMRI research out there. Here's what top neuroscientists want you to know. <i>Vox</i>	Discussion topic 6: Why do we trust neuroscience?
		Bennet, C. M., Baird, A., A., Miller, M. B., & Wolford, G., L. (2009). Neural Correlates of Interspecies Perspective Taking in the Post- Mortem Atlantic Salmon: An Argument For Proper Multiple Comparisons Correction	Assignment 3: Statistics gone wrong
		Vul, E., Harris, C., Winkielman, P., & Pashler, H. (2009). Puzzlingly high correlations in fMRI studies of emotion, personality, and social cognition. <i>Perspectives on Psychological</i> <i>Science</i> , 4(3), 274-290.	
WINTER BREAK			
Week 1: January 13	Bias in Qualitative Research	Roulston, K. & Shelton, S. A. (2015). Reconceptualizing bias in teaching qualitative research methods. <i>Qualitative Inquiry</i> , <i>21</i> (4), 332-342.	Discussion topic 7: Reflexivity and identity in psychological
		Pratt, M. G., Kaplan, S., & Wittington, R. (2020). The tumult of transparency: Decoupling transparency from replication in establishing trustworthy qualitative research. <i>Administrative Science Quarterly</i> , 65(1), 1-19.	research
Week 2: January 20	The Sin of Corruptability	The 7 Deadly Sins of Psychology by Chris Chambers—Chapter 5 Why do scientists commit misconduct? Interview with Cristy McGoff, Director of Research Integrity at UNC Greensboro	Discussion topic 8: Why and how does fraud happen?

January 27 Hoarding and Internment The 7 Deadly Sins of Psychology by Chris Chambers – Chapter 6 Fox, A. & Brainard, J. (2019). University of California boycotts publishing giant Elsevier over journal costs and open access. <i>Science</i> , February 28, 2019. W Week 4: September 30 Describe some common myths! 5 minutes, 5 slides: Describe common myths in psychology As Week 5: October 7 Wob gets left out? Guest Lecture, Dr. Darius Gishoma Divinue W Week 5: October 7 Wob gets left out? Guest Lecture, Dr. Darius Gishoma Divinue W Week 5: October 7 Wob gets left out? Guest Lecture, Dr. Darius Gishoma Divinue W Week 5: October 7 Wob gets left out? Guest Lecture, Dr. Bareket-Shavit, C., Dollins, F. A., Goldie, P. D., & Mortenson, E. (2020). Racial inequality in psychological research: Trends of the past and recommendations for the future. <i>Perspectives on Psychological Science</i> , 1-15. Nielsen, M., Haun, D., Kärtner, J., & Legare, C. H. (2017). The persistent sampling bias in developmental psychology, 162, 31-38. E February 17 READING WEEK Art Based Research, Guest lecture: Mike Ruderman Designing infographics, Guest lecture: Jenna-Louise Palmer-Dyer Leavy, P. (2010). A/r/t: A poetic montage. <i>Qualitative Inquiry</i> , 16(4), 240-243. As Week 7 March 3 <t< th=""><th></th><th></th><th></th><th></th></t<>				
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September 30 common myths! Mith Week 5: Who gets left out? Guest Lecture, Dr. Darius Gishoma Di October 7 out? Guest Lecture, Dr. Darius Gishoma With the weirdest people in the world? Behavioral and Brain Sciences, 33(2/3), 1-75 Roberts, S. O., Bareket-Shavit, C., Dollins, F. A., Goldie, P. D., & Mortenson, E. (2020). Racial inequality in psychological research: Trends of the past and recommendations for the future. Perspectives on Psychological Science, 1-15. Nielsen, M., Haun, D., Kärtner, J., & Legare, C. H. (2017). The persistent sampling bias in developmental psychology: A call to action. Journal of Experimental Child Psychology, 162, 31-38. February 17 READING WEEK Week 6: Visualize this Art Based Research, Guest lecture: Mike Ruderman Designing infographics, Guest lecture: Jenna-Louise Palmer-Dyer Leavy, P. (2010). A/r/t: A poetic montage. Qualitative Inquiry, 16(4), 240-243. Ast Week 7 March 3 The Sin of Bean Counting The 7 Deadly Sins of Psychology by Chris Chambers – Chapter 7 Di Tafreshi, D., Slaney, K., L., & Neufeld, S. D. (2016). Quantification in psychology: Critical analysis of an unreflective practice. Journal of Theoretical and Philosophical Psychology, 36(4), 233-249 Week 8: Warch 10 together Collins, S. E., Clifasefi, S. L., Stanton, J., The LEAP Advisory Board, Straits, K. J. E., Gil-Kashiwabara, E., Rodriguez Espinosa, P., Nicasio, A. V., Andraski, M. P., Hawes, S. M., Miller, K. A., Nelson,	-	Internment	Fox, A. & Brainard, J. (2019). University of California boycotts publishing giant Elsevier over journal costs and open access. <i>Science</i> , February 28, 2019.	Discussion topic 9: Who uses research?
October 7out?Henrich, J., Heine, S., J., & Norenzayan, A. (2010). The weirdest people in the world? Behavioral and Brain Sciences, 33(2/3), 1-75W W ma 33(2/3), 1-75Roberts, S. O., Bareket-Shavit, C., Dollins, F. A., Goldie, P. D., & Mortenson, E. (2020). Racial inequality in psychological research: Trends of the past and recommendations for the future. Perspectives on Psychological Science, 1-15.W W M maFebruary 17 READING WEEKNielsen, M., Haun, D., Kärtner, J., & Legare, C. H. (2017). The persistent sampling bias in developmental psychology: A call to action. Journal of Experimental Child Psychology, 162, 31-38.Art Based Research, Guest lecture: Mike Ruderman Designing infographics, Guest lecture: Jenna-Louise Palmer-Dyer st Leavy, P. (2010). A/r/t: A poetic montage. Qualitative Inquiry, 16(4), 240-243.Art Week 6: Meek 7 March 3The Sin of Bean CountingArt For Deadly Sins of Psychology by Chris Chambers – Chapter 7 Di, Sudantification in psychology: Critical analysis of an unreflective practice. Journal of Theoretical and Philosophical Psychology, 36(4), 233-249With State	September 30	common myths!		Assignment 1: Myths and how they are supported
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February 24thisDesigning infographics, Guest lecture: Jenna-Louise Palmer-DyerCILeavy, P. (2010). A/r/t: A poetic montage. Qualitative Inquiry, 16(4), 240-243.Leavy, P. (2010). A/r/t: A poetic montage. Qualitative Inquiry, 16(4), 240-243.SuperiorWeek 7 March 3The Sin of Bean CountingThe 7 Deadly Sins of Psychology by Chris Chambers – Chapter 7Di With With Tafreshi, D., Slaney, K., L., & Neufeld, S. D. (2016). Quantification in psychology: Critical analysis of an unreflective practice. Journal of Theoretical and Philosophical Psychology, 	February 17			
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Week 9 March Flex week Office hours and in-class meetings	March 10	together	Community Based Research, Guest Lecture Collins, S. E., Clifasefi, S. L., Stanton, J., The LEAP Advisory Board, Straits, K. J. E., Gil-Kashiwabara, E., Rodriguez Espinosa, P., Nicasio, A. V., Andrasik, M. P., Hawes, S. M., Miller, K. A., Nelson, L. A., Orfaly, V. E., Duran, B. M., & Wallerstein, N. (2018). Community-based participatory research (CBPR): Towards equitable involvement of community in psychology research. <i>American</i> <i>Psychologist, 73</i> (7), 884–898.	Discussion topic 11: Collaborative science, why not?

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Week 10: March 24		Assignment 6: Presenting and evaluating infographics	
Week 11: March 31	Evaluating "Higher Ed"	Page, D. (2020). The academic as consumed and consumer. <i>Journal</i> of <i>Education Policy</i> , <i>35</i> (5), 585-601.	Discussion topic 12: Thinking about what the university is
		Lian Niu, L., Behar-Horenstein, L.S., & Garvan, C. W. (2013). Do instructional interventions influence college students' critical thinking skills? A meta-analysis. <i>Educational Research Review</i> , <i>9</i> , 114-128.	teaching us (and how do we assess it?)
Week 12: April 7	Redemption	The 7 Deadly Sins of Psychology by Chris Chambers – Chapter 8	Assignment 7: Explain the debate
		Fine, M. (2006). Bearing witness: Methods for researching oppression and resistancea textbook for critical research. <i>Social Justice Research</i> , <i>19</i> (1), 84-108.	
		Martin, D. H. (2012). Two-eyed seeing: A framework for understanding indigenous and non-indigenous approaches to indigenous health research. <i>CJNR</i> , 44(2), 20-42.	