

PSYC 301: Advanced Statistical Inference
School of Kinesiology and Health Studies Room 100
Thursdays 6:30 pm - 9:30 pm

to do well and learn the material in this course, but we can do little to help you if you do not take the initiative. Waiting until the last minute will not be a wise strategy.

Teaching Assistants

The TAs lead the tutorials and grade the in-lab quizzes and lab assignments. They do not grade the exams. The TAs will be available for the full three hours of their scheduled lab time. Thus they are not required to hold any additional office hours, and you are strongly encouraged to take advantage of their availability during the lab times. Your TA is unlikely to monitor the onQ discussion board, but the Head TA and instructor will be able to answer questions about the lab material. The TAs want to help you, but bear in mind that the volume of emails generated even by one lab section in this course can be enormous. So please use email conscientiously

questions or need to meet with your TA, please contact him or her well in advance. If you wait until the last minute, you have no guarantee that your TA will have the opportunity to read your email and/or be able meet with you in time.

Section	Day	Time	TA	Email Address
002				
		11:30 am - 2:30 pm	Andrew Nguyen	12aan3@queensu.ca
009	Tuesday	6:30 pm - 9:30 pm	Matt Kan	8mphk@queensu.ca
005	Wednesday	8:30 am - 11:30 am	Suhui Yap	12sy30@queensu.ca
004	Wednesday	11:30 am - 2:30 pm	Suhui Yap	12sy30@queensu.ca
003	Wednesday	2:30 pm - 5:30 pm	Matt Kan	8mphk@queensu.ca

Course Purpose

The primary purpose of this course is for you to become a better consumer of research. You will be

per semester, \$38 per year, or \$85 for a four-year account. The app is available for computers, tablets, and/or smartphones.

Privacy Statement

This course makes use of Top Hat for quizzing and attendance and Turnitin for lab assignments and exams. Be aware that by logging into Turnitin, and program. Your independent use of these sites, beyond what is required for the course (for example, ically. You are encouraged to review these documents, using the links below, before using the sites.

- x Top Hat - <https://tophat.com/legal/privacy-policy/>
- x Turnitin - http://turnitin.com/en_us/about-us/privacy

Grade Scheme

LAB ASSIGNMENT TOTAL	Best 80% of lab assignments	30%
QUIZ TOTAL	Best 80% of quiz questions	15%
EXAM TOTAL	2 Exams (each = 25%)	50%
PARTICIPATION TOTAL	TopHat/attendance/etc.	<u>5%</u>
GRAND TOTAL		100%

Grading Method

All components of this course will receive letter grades, which, for purposes of calculating your course average, will be translated into numerical equivalents using the Faculty of Arts and Science approved scale (see Conversion Scale (see below).

Arts & Science Letter Grade Input Scheme and Official Grade Conversion Scale

Grade	Numerical Value for Calculation of Final Grade	Numerical Course Average (Range)
A+	93	90-100
A	87	85-89
A-	82	80-84
B+	78	77-79
B	75	73-76
B-	72	70-72
C+	68	67-69
C	65	63-66
C-	62	60-62
D+	58	57-59
D	55	53-56
D-	52	50-52
F	48	49 and below

Late Policy

Late assignments and exams will be penalized two letter grades per each day late (i.e., if you earn an A on the assignment/exam, your grade will be a B+ once the penalty is applied).

Statement of Academic Integrity

administrators and staff all have responsibilities for supporting and upholding the fundamental values of academic integrity. Academic integrity is constituted by the five core fundamental values of honesty, trust, fairness, respect and responsibility (see www.academicintegrity.org) and by the quality of courage. These values and qualities are central to the building, nurturing and sustaining of an academic community in which all members of the community will thrive. Adherence to the values expressed through

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Accommodations Statement

Queen's University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a disability and think you may need accommodations, you are strongly encouraged to contact Student Wellness Services (SWS) and register as early as possible. For more information, including important deadlines, please visit the Student Wellness website at: <http://www.queensu.ca/studentwellness/accessibility-services/>

Student Code of Conduct

As a Queen's student, you are bound by the [Student Code of Conduct](#). The code is the foundation for the

PSYC 301 Course Outline 2018

Week	Lecture Date/Topic	Assigned Readings/Podcasts	Lab Dates/Topics
1	<u>September 6</u> Introduction Crisis in Science	LSR1 Why do we learn statistics? Simmons, J. P., Nelson, L. D., & Simonsohn, U. (2011). False-positive psychology: Undisclosed flexibility in data collection and analysis allows presenting anything as significant. <i>Psychological Science</i> , 22(11), 1359-1366. Lilienfeld & Waldman Ch 9	<u>September 10-12</u> Introduction R Basics LSR Ch 3 YAR Ch 2 & 4 Assignment 1 Due
2	<u>September 13</u> Crisis (continued)	LSR2 A brief introduction to research design Lilienfeld & Waldman Ch 11	<u>September 17-19</u> LSR5 Descriptive Statistics Assignment 2 Due
3	<u>September 20</u> NHST and p values	LSR9 Introduction to probability LSR10 Estimating unknown quantities from a sample Chambers Ch 3	September 24

8	November 1 Mediation and Moderation	Kline (2015) https://www.tandfonline.com/doi/pdf/10.1080/01973533.2015.1049349?needAccess=true	<u>October 29-31</u> LSR15 Linear Regression Assignment 6 Due
9	November 8 Confidence Intervals, Effect Size, and Meta- Analysis	http://people.uncw.edu/galizio/PSY589/Cummings2014.pdf	<u>November 5-7</u> Multiple Regression and Mediation Assignment 7 Due
10	<u>November 15</u> Replication	Lilienfeld & Waldman Ch 6	<u>November 12-14</u> LSR12 Categorical Data Analysis Assignment 8 Due
11	<u>November 22</u> Lecture Cancelled	<i>Special Advising Session led by the UG Office</i>	<u>November 19-21</u> Advanced R Assignment 9 Due
12	<u>November 29</u> QRP Detection and D81.275 365.775 0.5		