

PSYC 300: Advanced Experimental Psychology  
2013- 2014

Fall Term Instructor:  
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Name: Rachael Bosma  
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Office: Humphrey 323  
Office Hours: By appointment

Lecture Times:  
Tuesdays 10:00am-11:30am  
Thursdays 8:30am-10:00am

Lecture Location	Lab Location
KIN 100	HUM 219

### Course Objectives

The objectives for PSYC 300 are to provide you with a ~~under~~ understanding of and practise in research design and implementation, statistical concepts, analysis, and reporting methods, and communication of experimental findings. You will be exposed ~~to~~ to the conceptual and the theoretical components of research design and statistical analysis ~~as~~ as the practical applications and use of these. This course aims to: ~~Provide~~ Provide a conceptual understanding of research design and statistical analysis ~~to~~ Provide practical skills in empirical data collection, analysis, writing, and research method implementation, and ~~to~~ Provide students with a bridge between second year statistics courses and the fourth year 501 thesis project.

### Course Materials

Copyright The course material including lecture notes, lab activities, ~~is~~ copyrighted and is for the sole use of students registered in PSYC 300. This material shall not be distributed or disseminated to anyone other than students registered in PSYC 300. Failure to abide by these conditions is a breach of copyright and may also constitute a ~~breach~~ breach of academic integrity under W K H 8 Q L Y H U V L W \ 6 H Q D W H \ V \$ F D G H P L F , Q W H J U L W \ 3 R O L F \ 6

### Required Materials

Lomax, R. G., & Hans ~~vaughn~~ / aughn, D. L. (2012) An introduction to statistical concepts ~~3~~ <sup>4</sup><sup>rd</sup>



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question on the quiz before submitting. Each question left unmastered is docked 5% of your total score. Each correct submission is docked 10% (0.1 points) so your minimum grade could be 60% if you made 4 incorrect submissions. Grades will be calculated based on the number of questions left unmastered and the number of incorrect submissions

### Laboratories

All labs are held in Humphrey 219 and will begin Thursday, September 13<sup>th</sup>, 2013. Although separated by a weekend, we consider labs taking place on Monday as part of the previous week. In other words, the first week of labs will run Thursday, September 12<sup>th</sup>, to Monday, September 16<sup>th</sup>. Labs will focus on;

1. Writing skills
2. Practical aspects of statistical analysis using various types of software
3. Active learning exercises
4. Working on course projects

Students are expected to attend their assigned laboratories for three hours each week. Students are also expected to participate in lab activities and to complete all assigned laboratory activities. Laboratory activities will constitute one part of your participation mark. Please keep in mind that in order to fully participate in lab activities you will need to bring your copy of the Green and Salkind text to every lab meeting.

### Lab Section Teaching Assistants:

Section	Day	Time	TA	Email
002	Monday	11:30am ±2:30pm	Joyce Li	<a href="mailto:joyce.li@queensu.ca">joyce.li@queensu.ca</a>
003	Monday	2:30pm ±5:30pm	Samantha Drover	<a href="mailto:7sd24@queensu.ca">7sd24@queensu.ca</a>
004	Monday	6:30pm ±9:30pm	Natalie Kalmet	<a href="mailto:6nk11@queensu.ca">6nk11@queensu.ca</a>
006	Thursday	2:30pm ±5:30pm	Sara Furlano	<a href="mailto:7rf@queensu.ca">7rf@queensu.ca</a>
007	Thursday	6:30pm ±9:30pm	Layla Hall	<a href="mailto:5lh27@queensu.ca">5lh27@queensu.ca</a>
005	Friday	11:30am ±2:30pm	Mike Best	<a href="mailto:8mwb@queensu.ca">8mwb@queensu.ca</a>
008	Friday	8:30am ±11:30am	Raegan Mazurka	<a href="mailto:6rm9@queensu.ca">6rm9@queensu.ca</a>

The TAs will be available for the full three hours of their scheduled lab time. They are not required to hold any formal office hours; however, they may wish to make themselves available at specific times or by appointment. Therefore, you are strongly urged to take

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Exams

There are three exams scheduled for this course, each worth 15% of your final grade. Two of the exams (Exam I and II) covering lecture and lab material will be held during the fall term and winter term exam periods and a practical exam will be administered during regular lab times between March 20<sup>th</sup> and 24<sup>th</sup>, 2014. Students are expected to write all exams as scheduled, and you must write all of the exams to pass this course (i.e., if you do not write an exam, you will receive a failing mark for the class regardless of your performance on the other components of the course). If you are unable to write either Exam I or II during the scheduled time in the fall or winter term period, appropriate documentation of your reasons for not writing the exam must be submitted to and approved by the instructor PRIOR to the exam (specifically, by 5:00pm the day before the exam). If you are unable to attend your lab meeting the week of the practical exam, appropriate documentation of your reasons for not writing the exam, at the regular lab meeting must be submitted to and approved by the instructor the Monday before the practical exams are scheduled (i.e., before 5:00pm on Monday, March 17<sup>th</sup>, 2014). You will then be scheduled to take the exam with one of the other lab sections or at an alternate time. Exams and assignments that are due in other courses will not be sufficient grounds for excusal, and the PSYC 300 exam dates will not be changed to accommodate other courses.

If you are unable to attend your lab meeting the week of the practical exam, appropriate documentation of your reasons for not writing the exam, at the regular lab meeting must be submitted to and approved by the instructor the Monday before the practical exams are scheduled (i.e., before 5:00pm on Monday, March 17<sup>th</sup>, 2014). You will then be scheduled to take the exam with one of the other lab sections or at an alternate time. Exams and assignments that are due in other courses will not be sufficient grounds for excusal, and the PSYC 300 exam dates will not be changed to accommodate other courses.

Projects

There are two projects, both of which must be completed in order to pass this course. In extenuating circumstances with the appropriate documentation, extensions may be given for the projects, but projects will not be prorated. That is, you must complete both projects to pass this course; failure to do so will result in a failing mark regardless of your performance on the other components of the course.

Each project paper will involve collecting, analyzing, and writing up data. Although there are group components to each project (i.e., students will work in groups to design their studies and collect data), the applications and project papers must be written and individually written. The project papers will be assessed via the online plagiarism prevention program, Turnitin.com. Please refer to the Turnitin.com website for more information.

If you are retaking this course, you may not resubmit the same application or paper, and you may not submit a similar application or paper for either Project I or Project II. You must devise a completely new project. Failure to do so constitutes plagiarism.

All applications and final project papers must be submitted in electronic format (e.g. Word, PDF, etc.) to Turnitin.com, and follow the formatting guidelines of the Publication Manual of the American Psychological Association. Projects will be marked by the TAs and each is worth 10% of your final grade. Applications and project papers will be penalized 5% per day late.

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**Project Requirements** For both projects you will be working with data that you collect from adult human participants (please review the requirements for both projects below before starting data collection) As such, during the first few weeks of the term you will be randomly assigned to a group within your lab section. As a group you will design a research project that will, at minimum, include the following;

- a) A manipulation with 2 levels and 2 additional categorical variables with 2 levels, OR a manipulation with 3+ levels and 2 additional categorical variables; one with 3+ levels and one with 2 levels.
- b) At least 2 variables measured on a continuous scale
- c) At least 2 additional variables measuring the same thing on a continuous scale (e.g., self-esteem).
- d) Relevant demographic (but nonidentifying) variables

Groups may want to include more measurements and are more than welcome to do so. However, if they do not wish to do so, the above criteria must be met. Those that fail to meet these requirements in their data collection will be unable to meet the criteria set forth in some lab assignments or projects. An archival dataset will be available for this purpose. D Q G L W V ¶ X V H Z L result in a 5% graded deduction for each time it is used. In other words, if you use the archival dataset to complete a project or an assignment that asks you to use your own dataset, you will be subject to a penalty of 5% off your final grade for that assignment

**Project REB Applications** Once a research project has been designed each student must submit the following originally and independently written application;

- a) A course based research ethics short form (REB)
- b) A combined letter of information/consent form
- c) A debriefing form
- d) All experimental materials (e., questionnaires, etc.)
- e) A copy of your CORE certificate

Each student will submit a paper copy of their REB application to their TA by the due date as well as upload an electronic copy to Turnitin.com. The applications from each group will be evaluated and the best of each individually submitted section will be combined to create a formal REB application to the university. Students whose sections are selected for inclusion into the formal REB application will receive a bonus mark added to their participation mark.

**Project Details** Once groups receive ethics permission they may begin collecting data. You will have flexibility in your choice of topics and experimental procedure, but the following ethical guidelines must be met to obtain approval for data collection.

1. Data can only be collected from adult human participants (18 years of age or older). You may not use the PSYC 100 subject pool or people from special populations.
2. Participants must provide informed consent prior to any data being collected from them.
3. No identifying information (i.e. name, student identification number, etc) can be DVVRFLDWHG ZLWK WKH SDUWLFLSDQWV ¶ GDWD < R X responses remain anonymous and confidential. Results should be reported only at the

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- group level and not for specific individuals.
4. If a group member knows a potential participant, he or she should not serve as the experimenter for that participant nor should he or she enter that participant's data.
  5. The procedure cannot involve either physical or mental harm to the participants including embarrassment. Deception that conceals the goals of the experiment is acceptable and often necessary, but more elaborate forms of deception, such as giving participants negative or false feedback about themselves, should be avoided.
  6. No information of a highly personal or sensitive nature as defined by the General Research Ethics Board can be gathered from participants. Basically, such information includes anything pertaining to the D U W L F s e S i d O r i e n t a t i o n or behaviors, psychopathologies like depression, religion, and drug use or other illegal behaviors.

Project I. The first project will involve an experiment designed by students working in randomly assigned groups of 4 people from the same lab section. The study cannot have a correlational design, or be conducted online. It must be an experiment administered in person to K X P D Q S D U W L F L S D Q W V D Q G W K H G H V L J Q P X V W I R O O R Z W K Detail V ' & R Q V H T X H Q W O \ W R D G G U H V V \ R X U 3 U R M H F W , U H V I more of the statistical techniques covered during the fall term: t tests, the ANOVA family, and nonparametric equivalent tests. Before groups can begin collecting data for their studies, the instructor must first approve the REB application. Groups will have an opportunity for feedback on their research ideas during the lab meetings starting the 2<sup>nd</sup> week of the fall term.

Although the study is designed and collected by a group, each student will submit an originally and individually written introduction to Turnitin.com during the 6<sup>th</sup> week of the fall term. You will also be responsible for providing<</MCID 24>> 1 126.02 584.3(B0001Ta)4(Iso be r)4view



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Grading Scheme

Grade Components	Sources	% of Final Grade	Due Date	Due To
EXAMS	Exam I	15%	TBA	Instructor
	Lab Exam	15%	March 20 ±24 <sup>th</sup> , 2014	Instructor
	Exam II	15%	TBA	Instructor
PROJECTS	Project Paper I	10%	Dec 3, 2013 @ 11:59pm	Turnitin.com
	Project Paper II	10%	April 4, 2014 @ 11:59pm	Turnitin.com
FALL TERM ASSIGNMENTS	ProjectIntroduction	5%		



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Grading Method In this course, some components will be graded using numerical percentage marks. Other components will receive letter grades, for purposes of calculating your course average will be transformed into numerical evaluations using the Faculty of Arts and Science approved scale. Your course average will then be converted to a final letter grade

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### Appointments

We strongly recommend that you take advantage of opportunities to set up appointments with both the TAs and the instructors of this course. Questions before, during, or after class are always welcome. Simple questions should be posted on Moodle for the benefit of everyone.

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Academic Regulation 1 at [http://www.queensu.ca/artsci/academic/regulations/academic\\_regulations/regulation1](http://www.queensu.ca/artsci/academic/regulations/academic_regulations/regulation1)), on the Arts and Science website (see

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1. Obtain permission from their instructor to write a deferred exam. This requires notifying your instructor in advance or, under extraordinary circumstances, within 72 hours after, the exam, with appropriate documentation. Appropriate documentation includes

