PSYC*2360, Course Outline: Winter 2018

General Information

Course Title: Psychological Methods and Statistics

Course Description:

This course builds on students' understanding of basic psychological research methods and statistics, with an emphasis on designing, interpreting, and communicating research. Topics covered throughout the term may include: research ethics, the scientific method, qualitative and quantitative measures, reliability and validity, complex research designs using multiple predictor or independent variables, and the reading and writing of psychological journal articles. By the end of this course, successful students will be able to:

- Identify, apply, and evaluate different research methods
- Critically evaluate scientific research
- Conduct a literature search and identify and summarize the relevant literature
- Develop research hypotheses and design a study to test their research hypotheses
- Write a research proposal

Credit Weight: 0.50
Academic Department (or campus): Department of Psychology
Semester Offering: W18
Class Schedule and Location: Mondays and Wednesdays: 10:30 – 11:20; MACN, Room 105, plus assigned weekly seminar (see Webadvisor)

Instructor Information
Instructor Name: Dr. Carol-Anne Hendry, C. Psych
Instructor Email: chendry@uoguelph.ca
Office location and office hours: Old MacKinnon, Room 545, Mondays and Wednesdays at 9:30 am. Students must indicate their desire to attend by email at least 48 hours previously.

GTA Information

TA Coordinator	Ms. Mavandadi	vmavanda@uoguelph.ca
Teaching Assistants	Ms. Sammy Ayoub	ayoubs@uoguelph.ca
	Ms. Michelle Dollois	mdollois@uoguelph.ca
	Ms. Kelsy Ervin	kervin@uoguelph.ca
	Ms. Lindsay Plater	lplater@uoguelph.ca

Mr. Tyler Pritchard   tyler.pritchard@uoguelph.ca

Mr. Michael Wolter   wolterm@uoguelph.ca

Course Content

Specific Learning Outcomes:

LO 1.3 – Problem Solving,
LO 2.1 – information literacy,
LO 2.2 – Methodological Literacy,
LO 2.3 – Quantitative Literacy,
LO 2.5 – Visual Literacy
LO 4.2 – Written Communication
LO 4.3 – Reading Comprehension
LO 5.3 – Ethical Issues in Research

Lecture Content:

Lecture content will be based on the textbook and it will be structured according to the following sequence:

• Introduction to Research / Research Hypotheses
• Ethics in Research
• Measures
• Reliability and Validity
• Hypothesis Testing and Inferential Statistics
• Surveys and Sampling
• Correlational Research Designs
• Experimental Research: One-Way Designs
• Experimental Research: Factorial
• Experimental Control and Internal Validity
• External Validity
• Quasi-Experimental Research Designs

Seminars:

You will attend and participate in approximately 10 seminars. Seminar sessions are cancelled on the first week of classes and the last week of classes. During the seminars, you will work on the following collaborative learning activities:

- Learn how to conduct a library search for journal articles
- Find out the structure of psychology journal articles
- Create research questions and hypotheses
- Participate in self-reflection exercise about your learning in research methods

- Learn how to write an introduction for a research proposal
- Discuss and critique research proposals
- Learn how to write a methods section and a potential discussion section for a research proposal

Course Assignments and Tests:

Assignment or Test	Due Date	Contribution to Final Mark (%)	Learning Outcomes Assessed
Seminar Reflections	Due weekly <u>at the end of each seminar</u> for Weeks 2-11	10% (1% per seminar reflection)	Problem Solving, information literacy, Methodological Literacy, Written Communication, Reading Comprehension, Ethical Issues in Research
Plan for Research Proposal	January 26th via Courselink Dropbox	5%	Problem Solving, Information Literacy, Methodological Literacy
Mid-terms	Week ending Feb 9th & Week ending Mar 23rd	30% (15% x 2)	Methodological Literacy, Quantitative Literacy, Reading Comprehension, Ethical Issues in Research
Final Research Proposal	March 30th via Courselink Dropbox	25%	Problem Solving, Information Literacy, Methodological Literacy, Quantitative Literacy, Written Communication, and Reading Comprehension
Final Exam	Friday, April 20, 2018 02:30PM - 04:30PM Location TBA	30%	Methodological Literacy, Quantitative Literacy, Visual Literacy, Reading Comprehension, Ethical Issues in Research

Additional Notes (if required):
The midterms and final exam will be exclusively multiple-choice questions. The midterms are <u>not cumulative</u> but the final exam <u>will be cumulative</u>, with emphasis on course material from the second midterm on.

Final examination date and time: Friday, April 20, 2018 (2:30 – 4:30 pm)

Final exam weighting: 25%

Course Resources

Required Texts:

Stangor, C. (2014). Research Methods for the Behavioral Sciences (4th ed.). Boston: Houghton Mifflin Company. The text is available on library reserve.

Other Resources:

Assignments will be submitted using the CourseLink Dropbox. Additional readings will be accessible through CourseLink. The results of assignments and examinations will also be posted on CourseLink.

Access to CourseLink

Your Account ID and your Login Account Password are the same ones used to access your University of Guelph email account and WebMail. New students can find their ID and password on a letter included with their registration package. For more information see: https://www.uoguelph.ca/ccs/my-accounts/central-login-account/undergraduate-students

Course Policies

Grading Policies

Late assignments will be penalized at a rate of 5% per day and will not be accepted after 1 week past the deadline. An assignment due date can only be extended and a missed mid-term can only be considered at the discretion of the instructor with submission of compelling and documented evidence of a family, medical, or analogous emergency or crisis. The University of Guelph Academic Regulations shall apply to missed final exams.

For the research proposal and the seminar reflections, you must email requests for consideration to your assigned TA and you MUST cc: the instructor in any such email. If the request is granted, the assignment should be submitted to the CourseLink Dropbox, on the extended due date. After this period, 5% of the value of the report will be deducted for each additional day of delay. After 3 calendar days, the grade received will be 0%.

Marks will be docked for exceeding the page limit on your research proposal (5% per half page).

Course Policy regarding use of electronic devices and recording of lectures:

Electronic recording of classes is expressly forbidden without consent of the instructor. When recordings are permitted, they are solely for the use of the authorized student and may not be reproduced, or transmitted to others, without the express written consent of the instructor.

University Policies

Academic Consideration

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor (and TA) in writing, with your name, id#, and e-mail contact. See the academic calendar for information on regulations and procedures for Academic Consideration: Academic Consideration, Appeals and Petitions

Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community, faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring.

University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection. Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar:
Academic Misconduct Policy

Accessibility

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact Student Accessibility Services as soon as possible.

For more information, contact SAS at 519-824-4120 ext. 54335 or email csdexams@uoguelph.ca or the Student Accessibility Services Website

Course Evaluation Information

Please refer to the Course and Instructor Evaluation Website .

Drop date

The last date to drop one-semester courses, without academic penalty, is **Friday March 9ᵗʰ, 2018**. For regulations and procedures for Dropping Courses, see the [Schedule of Dates in the Academic Calendar](#).
[Current Undergraduate Calendar](#)

Additional Course Information
Expectations about e-mail communication

Important: Please include "Psych2360" in the subject header of any emails that you send regarding the course. Also, include your TA (cc) on any emails you send regarding assignments or material covered in the seminars.

Also note that the TAs and I will do our best to answer your emails within 48 hours of receipt, but that we are not available on weekends.

Policy regarding Turnitin:

Course instructors are allowed to use software to help in detecting plagiarism or unauthorized copying of student assignments. Plagiarism is one of the most common types of academic misconduct on our campus. Plagiarism involves students using the work, ideas and/or the exact wording of other people or sources without giving proper credit to others for the work, ideas and/or words in their papers. Students can unintentionally commit misconduct because they do not know how to reference outside sources properly or because they don't check their work carefully enough before handing it in. As the Undergraduate Calendar states: "Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it."

In this course, your instructor will be using Turnitin.com to detect possible plagiarism, unauthorized collaboration or copying as part of the ongoing efforts to prevent plagiarism in the College of Social and Applied Human Sciences.

A major benefit of using Turnitin is that students will be able to educate and empower themselves in preventing misconduct. In this course, you may screen your own assignments through Turnitin as many times as you wish before the due date. You will be able to see and print reports that show you exactly where you have properly and improperly referenced the outside sources and materials in your assignment.