

PSYC 2022 3.0 N Statistical Methods II (Winter 2014)

Department of Psychology

York University

Thursday 8:30 – 11:30am CLH-F

Course Instructor: Rui Zhang, PhD
Office: 214 BSB
Office Hours: Monday 3:00 – 5:00pm or by appointment
Email: rzhang3@yorku.ca (Please put “PSYC 2022” in the subject line).

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Course Website: <https://moodle.yorku.ca/>

REQUIRED TEXTBOOK:

Gravetter, F. J., & Wallnau, L. B. (2013). *Statistics for the Behavioral Sciences* (9th ed.). Belmont, CA: Wadsworth.

PREREQUISITES

Introduction to Psychology (PSYC 1010 6.0) or equivalent with a minimum grade of C

IMPORTANT DATES

Last Day to Drop/Add Courses: March 7
Reading Week: February 15 to February 21
Last Day of Classes: April 4
Exam Period Begins: April 8

COURSE DESCRIPTION

Students will be introduced to the statistical foundations that underlie research methods commonly employed in behavioural sciences. By the end of this course, students will gain a conceptual understanding of the statistical building blocks with which to evaluate and report research findings. The emphasis of this course is to make learning statistics as straightforward as possible. Ultimately, the goal is for students to become a more informed consumer of statistical information in everyday life and to prepare themselves for intermediate and advanced courses in statistics.

EVALUATION

Midterm exam	Chapters 10-13	35%
Final exam	Chapters 10-17, 19 & Appendix E	45%
Assignments	Total best 6 out of 8	20%
GRAND TOTAL		100%

Exams. There will be two tests for this course. The format of each exam might include a combination of multiple choice, true/false, basic calculations, interpretation of results, and short answer questions. You will be allowed to use your calculator and one 3 inch X 5 inch index card on which you may put anything useful. For the midterm exam, you will be allowed to use one side of the index card and for the final exam you will be allowed to use both sides of the card.

Assignments. You need to complete at least 6 out of 8 possible assignments over the course of the term. These assignments consist of two or three problem sets that appear at the end of each chapter covered in this course. Because there are 8 assignments in total, you can miss 2 of them without your grades being affected. If you complete all of them, your best 6 assignment marks will be counted. You are expected to work on these assignments independently and submit them at the beginning of each class. Electronic submission will not be accepted. A student who will be absent from class needs to arrange to turn in his/her assignment to Agnes prior to the class, otherwise he or she would receive a grade of zero on that assignment. Assignments not submitted on time will result in a grade of zero as well.

These assignments are designed to help you keep up with what you have learned throughout the course and provide you with timely feedback. Therefore, while working on each assignment, the focus should not be on simply getting the correct final answer as much as showing the intermediate steps that produce the final result. Once an assignment is graded, it will then be explained by the teaching assistants during the tutorial section in the next class.

MISSED EXAMES

You are expected to write each exam on the dates specified. There will be no make-up tests except under exceptional circumstances (e.g., severe illness or death in the family).

In the case of a missed exam, you will need to contact me by email within 48 hours and provide me with supporting documentation. For information on acceptable reasons for missing a test and required documentation consult the Department of Psychology website regarding guidelines for missed exams (e.g., business or personal travel is never a valid reason for missing a test).

There will be one set date for the make-up exam. It will be held in approximately one week following the original examination date. Although the content to be examined will be the same, the exact format may or may not follow that of the missed exam. Only extremely unusual circumstances would justify a second chance at a make-up. Failure to provide a legitimate reason for missing an exam will result in a grade of zero on the exam. In the case of a missed final exam, you can apply for a deferral as outlined at <http://www.registrar.yorku.ca/exams/deferred/>.

LECTURE SCHEDULE

Date	Lecture Topic	Reading
Jan. 9	Introduction & Review of Stats I	
Jan. 16	The <i>t</i> Test for Independent Samples	Ch. 10
Jan. 23	The <i>t</i> Test for Related Samples	Ch. 11
Jan. 30	Independent-Measures ANOVA	Ch. 12
Feb. 6	Repeated-Measures ANOVA	Ch. 13
Feb. 13	Tutorials (Instructor Out of Town)	
Feb. 20	No classes (Reading Week)	
Feb. 27	Midterm Exam	
Mar. 6	Two-Factor ANOVA	Ch. 14
Mar. 13	Correlation	Ch. 15
Mar. 20	Regression	Ch. 16
Mar. 27	The Chi-Square Statistic	Ch. 17
Apr. 3	Other Non-Parametric Tests and Choosing the Right Stats	Appendix E & Ch. 19
Apr. 8 - 24	Final Exam	

GRADING (converting percentage grades to letter grades)

Conversion Table	
From Percentage	To Letter Grade
90-100	A+
80- 89	A
75- 79	B+
70- 74	B
65- 69	C+
60- 64	C
55- 59	D+
50- 54	D
(Marginally below 50%) Marginally failing	E
(Below 50%) Failing	F

ADDITIONAL CONSIDERATIONS

All students are expected to familiarize themselves with the following information.

- Senate Policy on Academic Honesty:
<http://www.yorku.ca/secretariat/policies/document.php?document=69>
- Accommodation for students with disabilities:
<http://www.yorku.ca/secretariat/policies/document.php?document=68>
- Code of Student Rights and Responsibilities:
<http://www.yorku.ca/secretariat/policies/document.php?document=202>
- Religious Observance Accommodation:
<https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs>