

STATISTICAL METHODS II PSYC 2022 3.0 (SUMMER 2011 – S2)

YORK UNIVERSITY

DEPARTMENT OF PSYCHOLOGY

MONDAYS & WEDNESDAYS 7-10, CLH-F

COURSE INSTRUCTOR:

Lisa Fiksenbaum

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TEACHING ASSISTANTS

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Mondays 5:30-7:00 &

Wednesdays; 5:30-7:00

Note: Please send emails from a York email account and use PSYC2022 in the subject line; otherwise, emails will be will be deleted unread.

SECRETARY: Agnes Levstik, 281 BSB

Telephone: (416) 736-5125

REQUIRED TEXT: *Gravetter, F.J. & Wallnau, L. B. (2009) Statistics for the Behavioral Sciences. 8th Ed. Belmont CA: Thomson/Wadsworth.*

Prerequisite(s): PSYC 2021 3.0 or equivalent

COURSE DESCRIPTION AND GOALS

This course will build on material presented in Statistical Methods I. Students will gain a greater understanding of the mechanics and underlying rationale of the statistical procedures used by researchers in the behavioral sciences, in addition to the appropriate use and interpretation of statistical results. Topics that will be covered include: one-way and two-way analysis of variance (ANOVA), multiple comparison procedures (post-hoc analysis), repeated measures ANOVA, correlation and prediction, and non-parametric techniques.

COURSE REQUIREMENTS

Grades will be determined by your performance on exams and assignments. There will be 2 exams, weighted equally (40% each of your total grade—80% overall); and assignments will be worth 20% (10% each).

The first exam (July 12) will cover only the information for that particular unit. The final (TBA) will be cumulative. It will include new material covered after first Exam, and concepts from the rest of the course. Exams might include a combination of definitions, multiple choice, true/false, matching, basic calculations, interpretation of data sets, and/or short essay questions.

TEST INFORMATION

1. **You will need: a standard calculator, writing tools, sessional card, and photo ID,**
2. **You will be allowed to bring one 3 inch x 5 inch index card on which you may put anything you consider useful (e.g., formulas, definitions, etc.). For the first 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.**
3. It is important that you show up for all exams on time, as no late students will be allowed to write the exam following any student's departure from the exam room.
4. Statistical tables will be provided as needed.

ASSIGNMENT INFORMATION

1. Distributed in class and will be due at **7pm sharp** on the stated due date.
2. If you know that you will be absent from class on the day an assignment is due, you must arrange to turn in his/her assignment in 281 BSB prior to the class (please make sure to have the assignment time- and date- stamped by Agnes).
3. **Assignments not submitted on time will NOT be accepted, and you will receive a grade of zero on that assignment.**
4. Electronic submission of assignments will **NOT** be accepted under any circumstances.
5. You may feel free to discuss the assignments with other students; however the actual work must be done independently.
6. For all assignments, do not simply report the final answer for a problem. Show the computations that produced that answer. If it turns out that your final answer is incorrect, it may still be possible for you to earn partial credit for the problem if some parts of it are done correctly.

ROUNDING INFORMATION

1. **Do not round numbers you are computing until the final answer.** Rounding numbers at each step in calculating results in answers that may be significantly different than the keyed answers for both exams and homework. Therefore, **round only your final answer (to 2 decimal places) only after all calculations have been performed.**

POLICY ON MISSED TESTS AND EXAMS

If you miss a test you will be given ONE chance to write a make-up test if and only if: **

- Make-up exams will be granted only under exceptional circumstances, such as **serious** illness, or death in the immediate family.
- **You will be given ONLY 1 opportunity to write a make-up test if and only if: ****
 - You contact the teaching assistant (or instructor) in person, by telephone, or by email, within **48 hours** of the missed exam.
 - Appropriately documented (see below) is provided
- You must be prepared to write the make-up within 1 week following the missed exam.
- The format of the make up exam is at the discretion of the instructor.

****** Failure to comply with the points above will result in a grade of F on the missed exam. A conflict in another course during the time of the make-up is not an acceptable reason for missing the make-up (unless there is an examination in the other course at that time).**

Appropriate documentation verifying the circumstances for a missed exam must be provided to the teaching assistant prior to the make up exam.

- A. Tests or examinations missed on the grounds of *medical circumstances* must be supported by an Attending Physician's Statement from the Office of the Registrar.

The Attending Physician's Statement must include: (i) the full name, mailing address, and telephone number of the Physician, (ii) state the nature of the illness and its duration and (iii) an indication of whether the illness and/or medication prescribed would have **SERIOUSLY** affected the student's ability to study and perform over the period in question.

NOTE: the physician's office may be contacted to verify that the forms were completed by the physician.

- B. Tests or examinations missed on grounds of *non-medical circumstances* must be supported by appropriate documentation, i.e., death certificates, obituary notice, automobile accident reports, airline/train/bus tickets/receipt for emergency travel, etc. Airline/train/bus ticket/receipts for emergency travel must indicate destination, departure, and return dates. Missing an exam for a vacation etc. is not an acceptable reason for a make-up exam. Having to work at the time of a test is not considered a valid excuse for missing the test.

OTHER INFORMATION:

Regular class attendance is strongly recommended. Reading the textbook and listening in class are essential for successful performance in this course. If you miss a lecture, it is your own responsibility to find out what you have missed (e.g. by asking a fellow classmate for their notes).

All students are expected to familiarise themselves with the following information, available on the Senate Committee on Curriculum & Academic Standards webpage (see Reports, Initiatives, Documents) - http://www.yorku.ca/secretariat/senate_cte_main_pages/ccas.htm

York's Academic Honesty Policy and Procedures/Academic Integrity Website

Ethics Review Process for research involving human participants

Course requirement accommodation for students with disabilities, including physical, medical, systemic, learning and psychiatric disabilities

Student Conduct Standards

Religious Observance Accommodation

Comprehensive website on Academic Integrity for students can be found at <http://www.yorku.ca/academicintegrity/students/index.htm>

TENTATIVE COURSE SCHEDULE

DATE	LECTURE TOPIC	CHAPTER
June 20	Introduction	Ch. 10
June 22	T-Tests for Independent Samples	Ch. 11
June 27	T-Tests for Related Samples	Ch. 13
June 29 **	ANOVA	Ch. 14
July 4	Repeated Measures ANOVA Assignment #1 DUE	
July 6	Two-Factor ANOVA	Ch. 15
July 11	EXAM	Ch. 10, 11, 13, & 14
July 13 ***	Correlation	Ch. 16
July 18	Regression	Ch. 17
July 20	Categorical Data and χ^2 Test Assignment #2 DUE	Ch. 18
July 25	Non-parametric Approaches to Data	Ch. 20
July 27 Assignment Due	Review class	
Final Exam Period: August 2-Aug12. (CUMULATIVE)	Scheduled by the Office of the Registrar	

Any Changes to the Syllabus will be announced in class. Students are responsible for obtaining information on any changes.

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Other Important Dates:

**** July 2 - Last Date to enroll in courses with permission of the course instructor.**

***** July 15 - Last Date to Drop a Course without receiving a final grade.**