

**Faculty of Health  
Department of Psychology  
PSYC 2022 3.0 Section M  
STATISTICAL METHODS II  
Winter 2017**

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**Instructor and T.A. Information**

Instructor: Monique Herbert  
Office: 332 BSB  
Office Phone: 416-736-2100 x77186  
Office Hours: In class and by appointment  
Email: herbertm@yorku.ca

<b>T.A.</b>	<b>Graham McCreath</b>	<b>Mylann Guevara</b>
Email	grmccreath@gmail.com	<a href="mailto:mylann@yorku.ca">mylann@yorku.ca</a>
Office	Wednesdays, 12-1p.m.	Tuesdays, 3-4p.m.
Office Hours	BSB 269	Sherman 1006

**prerequisites are strictly enforced.**

- HH/PSYC 2021 3.00 (Statistical Methods I)

**Course Prerequisite or corequisite(s):**

- HH/PSYC 1010 6.00 (Introduction to Psychology), with a minimum grade of C when used as a prerequisite.

**Course website:** [Moodle](#) (please sign up for a Moodle account as soon as possible as course materials and announcements will be posted to this site)

**Course Description**

A continuation of the study of fundamental concepts and techniques of descriptive and inferential statistics. Topics include correlation, regression, analysis of variance and non-parametric statistics.

**Learning Outcomes**

Upon completion of this course, students should be able to:

1. Compute and interpret univariate inferential statistics.
2. Recognize limits of conclusions based on inferential statistics.

**Specific Learning Objectives**

1. Demonstrate the ability to generate statistical hypotheses (i.e., null and alternative) that are applicable to various research situations
2. Demonstrate the ability to compute univariate inferential statistics and interpret and present the results for various research situations (i.e.,  $t$  tests, ANOVAs)
3. Identify limits of conclusions based on inferential statistics (e.g., statistical vs practical significance)

## Required Text

Textbook (hard copy):  
Statistics for The Behavioral Sciences, 10th Edition  
Frederick J. Gravetter & Larry B. Wallnau  
ISBN-10: 1305504917  
ISBN-13: 9781305504912

## Course Requirements and Assessment

Students are required to complete all assignments, tests, and the final exam in order to receive a grade at the end of the course. The final grade for this course will be based on the components listed below. Please be sure to read my policy on late work, missed tests, or exams.

Assessment	Date of Evaluation (if known)	Weighting
Weekly-Assignments	Weekly	15%
Test#1	Feb 03	15%
Test#2	Mar 17	15%
Assignment#1	Feb 10	15%
Assignment#2	Mar 24	15%
Final Exam (cumulative)	Apr 7 - 24	25%
Total		100%

## Description of Assignments

**Weekly-Assignments:** These assignments will focus on course material covered in class on a given week. These will be available on Moodle and are to be completed and submitted at the beginning of the next week's class (e.g., a weekly assignment available in Week 2 on Moodle is due and submitted in Week 3's class). Please note a percentage of your overall grade is tied to each weekly assignment.

**Assignments:** Assignments will provide students with the opportunity to apply the statistical concepts to real-world problems, which will facilitate interpretation and presentation of statistical findings to various audiences subsequent to this course.

**Tests:** Tests will be non-cumulative and cover the material from lectures, readings, and in-class activities short-answer questions (e.g., defining concepts or responses to analysis questions).

**Final Exam:** The final exam will be cumulative and covers all course material.

## Grading as per Senate Policy

The grading scheme for the course conforms to the 9-point grading system used in undergraduate programs at York (e.g., A+ = 9, A = 8, B+ = 7, C+ = 5, etc.). Assignments and tests\* will bear either a letter grade designation or a corresponding number grade (e.g. A+ = 90 to 100, A = 80 to 90, B+ = 75 to 79, etc.)

(For a full description of York grading system see the York University Undergraduate Calendar - [calendars.students.yorku.ca/2016-2017/academic-and-financial-information/academic-services/grades-and-grading-schemes](http://calendars.students.yorku.ca/2016-2017/academic-and-financial-information/academic-services/grades-and-grading-schemes))

## Late Work/Missed Tests or Exams

Students with a documented reason for missing a course test, such as illness, compassionate grounds, etc., which is confirmed by supporting documentation (e.g, Attending Physician Statement which can be found at: <http://registrar.yorku.ca/pdf/attending-physicians-statement.pdf>) may request accommodation from the Course Instructor. Further extensions or accommodation will require students to submit a formal petition to the Faculty.

**Missed Tests:** If you miss a test you will need to provide the following in order to have an opportunity to take a make-up test or receive an appropriate accommodation:\*

- (a) An email to me ([herbertm@yorku.ca](mailto:herbertm@yorku.ca)) and/or one of your TAs within 48 hours of the missed test outlining the circumstances for missing the test and
- (b) Formal documentation to verify the circumstances for missing the test (e.g., completed Attending Physician's Statement Form - <http://registrar.yorku.ca/pdf/attending-physicians-statement.pdf>)

**\*Failure to provide the email and appropriate documentation will result in a 0 for any missed tests.**

Upon receipt of the above documentation you will have two options:

- (1) **one opportunity** to take a make-up test (this will be scheduled at a day and time to be announced by the instructor/TA and may take a different form from the original test)\*\* \*\*  
**OR**
- (2) opt to have the weight of the missed test added to your cumulative final exam

**\*\*Note: If you miss your make-up tests option 2 will take immediate effect provided the appropriate documentation was received.**

**Missed Final Exam:** If you miss your final exam please contact me via email ([herbertm@yorku.ca](mailto:herbertm@yorku.ca)) within 48 hours of the missed exam outlining the circumstances for missing the exam and provide formal documentation to verify the circumstances for missing the exam, as well as a completed Final Exam Deferred Standing Agreement.

## Add/Drop Deadlines

For a list of all important dates please refer to: [Important Dates](#)

Important dates	Winter (W)
Last date to add a course <b>without</b> permission of instructor (also see Financial Deadlines)	Jan. 18
Last date to add a course <b>with permission</b> of instructor (also see Financial Deadlines)	Feb. 1
Last date to drop a course without receiving a grade (also see Financial Deadlines)	March 10
Course Withdrawal Period (withdraw from a course and receive a "W" on the transcript – see note below)	March 11 - Apr. 5

## **Information on Plagiarism Detection**

Turnitin will be used to detect any evidence of plagiarism.

## **Electronic Device Policy**

Students who wish to use an electronic device (e.g., tablets, laptops) during class time are asked to do so only for course-related purposes. See also policy on use of electronic mobile devices during tests and exams.

## **Attendance Policy**

Students are expected to attend all classes as weekly class activities builds on the previous week's material. In the event that a student is unable to attend a class please send an email to the instructor/TA informing them about your absence either prior to the class or within 48 hours after the missed class. This is important as there are marks assigned for participation in this course.

## **Academic Integrity for Students**

York university takes academic integrity very seriously, please visit [an overview of Academic Integrity at York University](#) from the Office of the Vice-President Academic.

The following links will assist you in gaining a better understanding of academic integrity and point you to resources at York that can help you improve your writing and research skills:

- [Information about the Senate Policy on Academic Honesty](#)
- [Online Tutorial on Academic Integrity](#)[Information for Students on Text-Matching Software: Turnitin.com](#)
- [Beware! Says who? A pamphlet on how to avoid plagiarism](#)
- [Resources for students to help improve their writing and research skill](#)

## **Test Banks:**

The offering for sale of, buying of, and attempting to sell or buy test banks (banks of test questions and/or answers), or any course specific test questions/answers is not permitted in the Faculty of Health. Any student found to be doing this may be considered to have breached the Senate Policy on Academic Honesty. In particular, buying and attempting to sell banks of test questions and/or answers may be considered as "Cheating in an attempt to gain an improper advantage in an academic evaluation" (article 2.1.1 from the Senate Policy) and/or "encouraging, enabling or causing others" (article 2.1.10 from the Senate Policy) to cheat.

## **Electronic Devices During a Test/Examination:**

Electronic mobile devices of any kind are not allowed during a test or examination. Students are required to turn off and secure any electronic mobile device in their bag which is to be placed under the chair while a test/exam is in progress. Any student observed with an electronic device during a test/exam may be reported to the Undergraduate Office for a potential breach of Academic Honesty.

## **Academic Accommodation for Students with Disabilities:**

While all individuals are expected to satisfy the requirements of their program of study and to aspire to do so at a level of excellence, the university recognizes that persons with disabilities may require reasonable accommodation to enable them to do so. The [York University Accessibility Hub](#) is your online stop for accessibility on campus. The [Accessibility Hub](#) provides tools, assistance and resources. Policy Statement:

**Policy:** York University shall make reasonable and appropriate accommodations and adaptations in order to promote the ability of students with disabilities to fulfill the academic requirements of their programs.

The nature and extent of accommodations shall be consistent with and supportive of the integrity of the curriculum and of the academic standards of programs or courses. Provided that students have given sufficient notice about their accommodation needs, instructors shall take reasonable steps to accommodate these needs in a manner consistent with the guidelines established hereunder.

For Further Information please refer to: [York university academic accommodation for students with disabilities policy](#)

## **Course Materials Copyright Information:**

These course materials are designed for use as part of the PSYC 2022 3.0M course at York University and are the property of the instructor unless otherwise stated. Third party copyrighted materials (such as book chapters, journal articles, music, videos, etc.) have either been licensed for use in this course or fall under an exception or limitation in Canadian Copyright law.

Copying this material for distribution (e.g. uploading material to a commercial third-party website) may lead to a violation of Copyright law. [Intellectual Property Rights Statement](#)

### Course Schedule:

<i>Week</i>	<i>Date</i>	<i>Topic</i>	<i>Chapters</i>
1	Jan 06	<i>Review of major statistical concepts</i>	1 - 8
2	Jan 13	<i>Introduction to Analysis of Variance</i>	12
3	Jan 20	<i>Introduction to Analysis of Variance</i>	12
4	Jan 27	<i>Two- Factor Analysis of Variance (Independent Measures)</i>	14
5	Feb 03	<b>Test#1 (15%)</b>	
6	Feb 10	<i>Repeated-Measures Analysis of Variance</i> <b>Assignment #1 Due (15%)</b>	13
7	Feb 17	<i>Correlation</i>	15
	<b>Feb 24</b>	<b>Winter Reading Week - NO CLASS</b>	
8	Mar 03	<i>Introduction to Regression</i>	16
9	Mar 10	<i>Introduction to Regression</i> <b>Last date to drop a course without receiving a grade</b>	16
10	Mar 17	<b>Test#2 (15%)</b>	
11	Mar 24	<i>Binomial Test</i> <i>Techniques for Ordinal Data (Overview)</i> <b>Assignment #2 Due (15%)</b>	18, Appendix E
12	Mar 31	<i>Overall Course Review (prep for cumulative final)</i>	
	Apr 7-24	<b>Fall Exam (cumulative) - 25%</b>	