

**Faculty of Health  
Department of Psychology  
PSYC 2022 3.0 M: STATISTICAL METHODS II  
Friday/11:30-2:30p.m./VH-B  
Winter/2018**

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**Instructor and T.A. Information**

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**Course Prerequisite(s): Course 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 Credit Exclusions**

Please refer to [York Courses Website](#) for a listing of any course credit exclusions.

**Course website:** [Moodle](#)

**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.

**Program Learning Outcomes**

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

1. Compute inferential statistics for univariate linear models (ANOVA, regression).
2. Interpret and report the results of inferential statistics for univariate linear models.
3. Recognize the limits of inferential statistics.

## Topics Covered

- Review of basic statistical concepts
- One-way Independent Groups ANOVA (with contrasts)
- Two-way Independent Groups ANOVA (with interaction and contrasts)
- One-way Repeated Measures ANOVA (with contrasts)
- Correlation (including partial correlation)
- Simple Regression
- Multiple Regression

*\*Effect size is included as part of all inferential statistics covered in this course.*

## 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

Custom Ll Pkg Stats For The Behavioral Sciences 10Th W/Chap 20  
Mindtap (6 Month Gravetter)  
ISBN 9780176794828

**\*\*Please note it is important that you purchase this 10<sup>th</sup> edition with MindTap as you will be completing online assignments based on the information provided in this package. A copy of the above text can be purchased from the bookstore.**

## MindTap Student Registration URL:

<https://login.nelsonbrain.com/course/MTPN43GPHM68>

## Course Requirements and Assessment:

Assessment	Date of Evaluation (if known)	Weighting
MindTap	Upon completion of each chapter	12%
Test#1	Feb02	24%
Test#2	Mar 16	24%
Final Exam	Apr 9-23	40%
Total		100%

## Description of Assignments

**MindTap Assignments:** These are modules which will focus on course material covered in class on a given week or in the text as a whole. **However, to accommodate those who may need a bit more time to complete these modules they are all due on April 13.**

**2018; this due date is non-negotiable. I strongly advise that you do not wait until the last few weeks of the semester to complete them. Only the Problem Sets and Practice exams associated with the chapters we covered in this course count toward your final grade.** However, there are other activities (e.g., Mastery Training, End-of-chapter problems) available for you to practice course material.

**Tests:** Tests will be non-cumulative and cover the material from lectures, readings, and MindTap assignments preceding the test. The format of the tests will be a mix of multiple-choice and open-ended/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 - [Grading Scheme for 2017-18](#))

### **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 (Attending Physician Statement which can be found at: <http://myacademicrecord.students.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.

### **Important New Information Regarding Missed Tests**

For any missed tests, assignments, or exams students **MUST** complete the following online form **within 48 hours of the missed test:** [HH PSYC: Missed Tests/Exams Form](#). This form will be received and reviewed in the Psychology undergraduate office. Failure to complete the form within 48 hours of the original deadline will result in a grade of zero for the test/assignment.

**Missed Tests:** Please note in completing the online form you will also need to include formal documentation to verify the circumstances for missing the test (e.g., completed Attending Physician's Statement Form) – this documentation should be submitted **within 7 days of the missed test.**

Upon completion of the online form and after receipt of your supporting documentation you will have two options:

- (1) **one opportunity** to write a make-up tests (this will be scheduled at a day and time to be announced by the instructor 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 test option 2 will take immediate effect provided the appropriate notification and documentation were received.**

**Missed Final Exam:** If you miss your final exam please also complete the online form **within 48 hours of the missed exam** and provide formal documentation (i.e., Attending Physician Statement and Final Exam Deferred Standing Agreement Form) **within 7 days of the missed final exam.**

### **Add/Drop Deadlines**

For a list of all important dates please refer to: [Fall/Winter 2017-18 - Important Dates](#)

	<b>FALL (F)</b>	<b>YEAR (Y)</b>	<b>WINTER (W)</b>
Last date to add a course <b>without permission</b> of instructor (also see Financial Deadlines)	Sept. 20	Sept. 20	Jan. 17
Last date to add a course <b>with permission</b> of instructor (also see Financial Deadlines)	Oct. 4	Oct. 18	Jan. 31
Drop deadline: Last date to drop a course without receiving a grade (also see Financial Deadlines)	Nov. 10	Feb. 9	March 9
Course Withdrawal Period (withdraw from a course and receive a grade of "W" on transcript – see note below)	Nov. 11 - Dec. 4	Feb. 10 - Apr. 6	March 10 - Apr. 6

**\*Note:** *You may withdraw from a course using the registration and enrolment system after the drop deadline until the last day of class for the term associated with the course. When you withdraw from a course, the course remains on your transcript without a grade and is notated as "W". The withdrawal will not affect your grade point average or count towards the credits required for your degree.*

### **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.

## **Academic Integrity for Students**

York University takes academic integrity very seriously; please familiarize yourself with [Information about the Senate Policy on Academic Honesty](#).

It is recommended that you review Academic Integrity by completing the [Academic Integrity Tutorial](#) and [Academic Honesty Quiz](#).

## **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 PSYC2022M 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

<b>Week</b>	<b>Date</b>	<b>Topic</b>	<b>Chapters</b>
1	Jan 05	<i>Review of major statistical concepts</i>	1 - 8
2	Jan 12	<i>Introduction to Analysis of Variance</i>	12
3	Jan 19	<i>Introduction to Analysis of Variance</i>	12
4	Jan 26	<i>Two- Factor Analysis of Variance (Independent Measures)</i>	14
5	Feb 02	<b>Test#1 (24%)</b>	
6	Feb 09	<i>Repeated-Measures Analysis of Variance</i>	13
7	Feb 17	<i>Kruskal-Wallis test/Friedman test</i>	20/Appendix D
	<b>Feb 23</b>	<b>Winter Reading Week - NO CLASS</b>	
8	Mar 02	<i>Correlation/Introduction to Regression</i>	15/16
9	Mar 09	<i>Introduction to Regression</i> <b>Last date to drop a course without receiving a grade</b>	16
10	Mar 16	<b>Test#2 (24%)</b>	
11	Mar 23	<i>Binomial Test</i> <i>Finding the Right Statistics for Your Data</i>	18, See chapter after Appendix E
	Mar 30	<b>Good Friday - NO CLASS</b>	
12	Apr 06	<i>Overall Course Review (prep for cumulative final)</i>	
	Apr 9-23	<b>Fall Exam (cumulative) - 40%</b>	