Faculty of Health
Department of Psychology
HH/PSYC 2020 6.0 Section H
STATISTICAL METHODS I AND II
Fall/Winter 2016-17; Thursdays 11:30-2:30 in FC 203

Instructor and T.A. Information

Instructor: Alistair P. Mapp
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Course Prerequisite(s) or corequisite: Course prerequisites are strictly enforced.

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

Course website: Moodle

Course Description

This course provides an introduction to the analyses of data from psychological studies. Fundamental concepts and techniques of both descriptive and inferential statistics and their application to psychological research are discussed.

Learning Outcomes/Objectives

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

1. Describe, explain, and calculate descriptive statistics.
2. Distinguish between descriptive and inferential statistics.
3. Compute and interpret univariate inferential statistics.
4. Recognize limits of descriptive statistics.
5. Recognize limits of conclusions based on inferential statistics.

Required Text

- Gravetter, F. J., & Wallnau, L. B. (2017). Statistics for the Behavioral Sciences (10th ed.). Boston, MA: Cengage Learning.

We will not be using MindTap in this course. No MindTap course key is available.

Course Requirements and Assessment

There will be **four tests** in this course, each one of which will be worth 20% of your final grade. The format of each test will be multiple choice and data analysis/interpretation questions. The tests will be noncumulative and will be based on materials covered both in class and in the readings. Additionally, there will be **four assignments**, each one of which will be worth 5% of your final grade. **You are expected to work on these assignments independently**. It is your responsibility to make sure you download the assignments from the course website (https://moodle.yorku.ca) and hand them in on time. The assignments will not be accepted late.

Assessment	Date of Evaluation	Weighting
Test 1	October 13, 2016	20%
Assignment 1	October 13,2016	5%
Test 2	December 1, 2016	20%
Assignment 2	December 1, 2016	5%
Test 3	February 9, 2017	20%
Assignment 3	February 9, 2017	5%
Test 4	March 30, 2017	20%
Assignment 4	March 30, 2017	5%
Total		100%

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 89, 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)

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://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.

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

   (a)   you email me (amapp@yorku.ca) no later than 48 hours after the missed test, and

   (b)   you provide me with appropriate documentation (e.g., an Attending Physician Statement) verifying the circumstances for the missed test.

Failure to comply with points (a) and/or (b) above will result in a grade of F on any missed tests.

Add/Drop Deadlines

For a list of all important dates please refer to: Important Dates

Important dates	Fall (F)	Year (Y)	Winter (W)
Last date to add a course **without** permission of instructor (also see Financial Deadlines)	Sept. 21	Sept. 21	Jan. 18
Last date to add a course **with permission** of instructor (also see Financial Deadlines)	Oct. 5	Oct. 19	Feb. 1
Last date to drop a course without receiving a grade (also see Financial Deadlines)	Nov. 11	Feb. 10	March 10
Course Withdrawal Period (withdraw from a course and receive a "W" on the transcript – see note below)	Nov. 12 - Dec. 5	Feb. 11 - Apr. 5	March 11 - Apr. 5

Attendance Policy

Although students are not graded on attendance it is in their best interest to attend all lectures, tutorials, and question & answer sessions.

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

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 devise 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 2020 6.0H 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:

Date		Topic	Reading
September	8	Orientation	
	15	Introduction & Math Review	Chapter 1 & Appendix A
	22	Frequency Distributions	Chapter 2
	29	Central Tendency & Variability	Chapters 3 & 4
October	6	Standardized Distributions	Chapter 5
	13	**Test 1 (20%) & Assignment 1 Due (5%)**	
	20	Probability	Chapter 6
	27	*Reading Day (No Class)*	
November	3	Sampling Distributions	Chapter 7
	10	Hypothesis Testing	Chapter 8
	17	One Sample t-Test	Chapter 9
	24	Pre-Test Q & A	
December	**1**	**Test 2 (20%) & Assignment 2 Due (5%)**	
		HAPPY HOLIDAYS	
January	5	Two Independent Samples t-Test	Chapter 10
	12	Two Related Samples t-Test	Chapter 11
	19	Confidence Intervals	See Book Index
	26	Introduction to ANOVA	Chapter 12
February	2	Repeated-Measures ANOVA	Chapter 13
	9	**Test 3 (20%) & Assignment 3 Due (5%)**	
	10	*Last day to drop full year courses without academic penalty*	
	16	Two-Factor ANOVA	Chapter 14
	23	*Reading Week (No Class)*	
March	2	Correlation & Regression	Chapters 15 & 16
	9	Binomial Test	Chapter 18
	16	Techniques for Ordinal Data	Appendix E
	23	Chi-Square Test	Chapter 17
	30	**Test 4 (20%) & Assignment 4 Due (5%)**	