

CAPILANO UNIVERSITY			
COURSE OUTLINE			
TERM:	FALL 2015	COURSE NO:	PSYCHOLOGY 213
INSTRUCTOR:	TBA	COURSE NAME: STATISTICAL METHODS IN PSYCHOLOGY	
OFFICE:	LOCAL:	SECTION NO:	CREDITS: 3
E-MAIL:			
OFFICE HOURS: TBA			

COURSE FORMAT: Three hours of class time, plus an additional hour delivered through on-line or other activities for a 15 week semester, which includes two weeks for final exams.

COURSE PREREQUISITES:

PSYC 100 and PSYC 101; MATH 097 with a minimum of a “C” grade; or MATH 091 or BMTH 043 with a minimum of a “C+” grade; or MATH 096 or BMTH 044 with a minimum of a “C-” grade; or BMTH 048 or Precalculus 11 or Principles of Math 11 or Foundations of Math 11 or Applications of Math 11 with a minimum of a “C” grade; or Applications of Math 12.

Note: This is an approved Quantitative/Analytical course for baccalaureate degrees.

RECOMMENDED FOLLOW-UP COURSE:

Psychology 212.

COURSE OBJECTIVES:

General: To introduce students who intend to major or minor in Psychology to the concepts and applications of statistics.

- Instructional:*
1. To learn basic descriptive statistics
 2. To learn basic inferential statistics
 3. To develop basic computer skills re: data analysis
 4. To understand how statistical information is presented in the research literature.
 5. Critical thinking: understanding the use of statistics and avoid their misuse in psychological research.

REQUIRED TEXTS: Gravetter, F.J., & Wallnau, L.B. (2013). Essentials of statistics for the behavioural sciences, 9th ed. CA: Wadsworth.

COURSE CONTENT:

Week	Content	Chapter(s)
1	Introduction	1
2	Frequency and Graphs	2
3	Central Tendency	3
4	Variability	4
5	Descriptive Z-scores	5
6	Hypothesis Testing	8
7	MIDTERM EXAM	
8	Three t-tests	9, 10 & 11
9	One-Way Anova	13
10	Two-Way Anova	14
11	Correlations	15
12	Chi-Square Analyses	16
13	Review	
14-15	FINAL EXAM PERIOD	

EVALUATION PROFILE:

Assignments (approx. 6-8)	35%
Participation & Attendance	5%
Midterm	25%
Final	35%

GRADING PROFILE:

A+ = 90 - 100%	B+ = 77 - 79%	C+ = 67 - 69%	D = 50 - 59%
A = 85 - 89%	B = 73 - 76%	C = 63 - 66%	F = 0 - 49%
A- = 80 - 84%	B- = 70 - 72%	C- = 60 - 62%	

FOURTH HOUR ACTIVITY:

Starting the last week of February to the last week of classes, there will be optional 1-hour tutorials: Times to be determined with the class. The focus of tutorials will be to review any material covered to date and to review returned assignments. This will not be time to work on new assignments.

ASSIGNMENTS:

This course is designed to develop an understanding of and the applications of basic statistical concepts in Psychology. There will be about 6 or 8 assignments that require computation and interpretation of the statistical concepts. The lowest assignment mark will be dropped from final assignment calculation if **ALL** of the following conditions are met: no assignment missed and all questions on all assignments are clearly attempted. **ALL** work must show formulas, calculations to 3 levels if possible and must be original as no photocopies are accepted. **There will truly be NO exceptions to these conditions.**

Note Well: All assignments are due **BEFORE** the lecture begins. Any assignments submitted once lecture has begun may be considered late and may be penalized 20%. One late grace given for assignment submitted after lecture begins and no later than after the break.

The content of assignments are cumulative in nature. The purpose of the assignments is not to simply “number crunch” but to develop an understanding of which statistical approach is best to summarize and interpret a given set of data. Assignments will also serve to develop an understanding of how psychologists present statistical information in the “results” section of research articles. Some assignments will have computer based questions for data analysis.

There will also be two exams and these will consist of multiple choice and computations.

Calculators: The use of programmable calculators **will not** be allowed in any test which is part of the grading profile.

OPERATIONAL DETAILS:

Capilano University has policies on Academic Appeals (including appeal of final grades), Student Conduct, Cheating and Plagiarism, Academic Probation and other educational issues. These and other policies are available on the University website.

Attendance:

Attendance is not required but strongly advised. Students are responsible for all announcements made in class and for all material on the course outline.

Missed Exams:

Missing an examination is a serious matter, and make-up exams will only be allowed in exceptional circumstances. Documentation will be required (e.g. a medical certificate). In

any case, students should notify the instructor beforehand. A penalty of up to 20% may be levied on make-up exams when granted.

Late Assignments: Late assignments, beyond that noted above, will be accepted only with prior consultation with the instructor and only for serious reasons. Late assignments will be penalized 20% nonetheless and late assignments are not accepted if not discussed with the instructor previously.

Submission for waiver of any penalty may be presented in writing, with appropriate documentation, to the Chair of the Psychology Department.

Incomplete Grades: Incomplete grades will be given only in exceptional circumstances and require prior consultation with the instructor.

Cheating and Plagiarism:

The psychology department adheres to the definition of cheating and plagiarism found on line at: <http://www.capilanou.ca/current/policies/university-policies/>. Cheating and plagiarism may result in a grade of zero, either for the assignment or the entire course.

Electronic Devices: No personal electronic devices (cell phones, electronic dictionaries, etc...) may be used during an examination unless prior approval from the instructor. During an exam, turn off all cell phones and pagers and remove them from the desk.

Confidentiality: The psychology department adheres to professional standards of ethics and confidentiality. Personal information that students give to an instructor would not normally be shared with anyone outside the department without the student's authorization. However, there are a few exceptional circumstances in which an instructor may be required by law to disclose information about students, e.g. if there is an indication that a minor (under the age of 19) is being abused sexually or physically, or neglected; or, disclosure of information is made necessary for legal proceedings; and certain other circumstances about which students may inquire.

Emergency Procedures: Please read the emergency procedures posted on the wall of the classroom.

Participation: The success of the class depends upon students' active participation and working through calculation in class! If students are absent from class, it is the student's responsibility to find out what was covered, whether any announcements were made, etc. Class contribution will be graded as follows:

0-1	2-3	4-5
Some combination of:	Some combination of:	Some combination of:
<ul style="list-style-type: none"> Missed many classes with minimal participation when present. 	<ul style="list-style-type: none"> Attends class regularly and participates by <u>responding to questions</u>. 	<ul style="list-style-type: none"> Attends nearly every class. Participation is <u>independently generated</u> in each class and is evident by questions asked or comments made.
<ul style="list-style-type: none"> Demonstrates noticeable lack of interest in the material. 	<ul style="list-style-type: none"> When prepared, participates constructively and makes relevant comments. 	<ul style="list-style-type: none"> Comments advance the discussion and the material.
<ul style="list-style-type: none"> Rarely responds to questions or generate questions. 	<ul style="list-style-type: none"> Preparation may be inconsistent. 	<ul style="list-style-type: none"> Arrives fully prepared for every class - readings done.
<ul style="list-style-type: none"> Rarely appears prepared. 	<ul style="list-style-type: none"> May be disruptive in class (e.g., texting) 	
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<ul style="list-style-type: none"> May be late for class. 	<ul style="list-style-type: none"> Inconsistently on time for class. 	<ul style="list-style-type: none"> Very rarely late for class.

PLEASE NOTE: persistent talking to others or non-involved behavior (not working on in-class equations, cell phone ringing, texting during class, laptop use that is not class relevant, such as checking e-mail, Facebook etc.) **will** detract from participation mark.