PSY 210 Section 1001   **Introduction to Statistical Methods**   **Fall, 2019**
Dr. Hurlburt (CBC-B440; 702-895-0194; russ@unlv.nevada.edu)
Teaching Assistant: Elaine Aquino; aquine1@unlv.nevada.edu)

SYLLABUS

GOALS: This course has two major goals: (a) to acquire an understanding of basic statistical concepts; and (b) to be able to perform accurately basic statistical computations. Students will demonstrate their understanding by providing "eyeball-estimates" of all statistics before computations are performed. Topics include measures of central tendency and variation; frequency distributions; sampling distribution of the mean and the central limit theorem; confidence intervals; one-, two-independent-and two-dependent sample *t* tests; power; one-way ANOVA; correlation; regression; and chi-squared tests.

TEXT: Hurlburt, R.T. (2017). *Comprehending behavioral statistics (6th ed.)*. Dubuque, Iowa: Kendall Hunt. ISBN 978-1-5249-0465-4. You may use either the printed copy (available at the bookstore or online at http://www.kendallhunt.com/hurlburt/) or the ebook, which you may install on two computers and two hand-held devices; access disappears after six months; see www.kendallhunt.com/hurlburtebook. You will need the 6th edition to get access to the new *Personal Trainer* website, which is where the quizzes and many other materials will be found. The 6th edition of both the printed copy (for the original purchaser) and the ebook includes access to the *Personal Trainer* website. Use of the older 5th edition will *not* provide access to *Personal Trainer*, which is essential to this course (see next section).

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CALCULATOR: A calculator is required for this course. A $5.00 version that has a square root key and a single memory function is adequate. Calculators with special statistical functions are permitted, but you will be required to show your work anyway.

CLASS: Tuesday-Thursday 8:30-9:45am (BEH 218). Lectures will explain and provide examples of material covered in the readings. Questions from students are encouraged: it is essential to clear up misunderstandings as soon as possible because each part of the course builds on the preceding parts. Most students find that regular attendance is necessary.

ARITHMETIC PREREQUISITE: College algebra is a prerequisite for this course. Take the "Self-test for arithmetic" found in Appendix B of your textbook immediately. If you don't score 90% or higher on that test, you should seriously consider dropping this course and adding an algebra course. For a quick algebra review, click **Algebra** in the *Personal Trainer*.

LABORATORY: Labs and their quizzes are available 24/7 in *Personal Trainer* (see Computer Software above) and click **Labs** or **Quizzes**. Quizzes are due on the dates listed in the schedule. Each quiz can be taken three times; we will record your highest score.

HOMEWORK: The homework assignment is the same for each chapter: Section A and C (if it exists) at the end of each chapter. Homework for all chapters covered by an exam is due on the day of the exam. Homework will be collected, recorded, and returned; if you turn in homework regularly and your final grade is near the upper limit of a grade category, your final grade will be bumped to the higher category.

OPTIONAL QUIZZES: I will feel free to offer optional quizzes at any time, announced or unannounced, in-class or take-home.

EXAMS: There will be five sectional exams. In addition, there will be a cumulative final exam, which will be similar in format to the Section C "Cumulative Review" homework problems. The first four exams will be closed book, but I will provide Xerox copies of all equations and tables, and you may prepare and bring to the exam one 8½ X 11 inch double-sided "crib sheet" with whatever notes you desire. **[NOTE: I take an extremely dim view of cheating, and will recommend penalties as extreme as the UNLV Code allows.] UNLV Policy:** "Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility and professionalism. By choosing to join the UNLV community, students accept the expectations of the Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's function as an educational institution." See the "Student Academic Misconduct Policy" (approved December 9, 2005) located at: http://studentlife.unlv.edu/judicial/misconductPolicy.html.

CALENDAR:

CLASS DAY	READING	LAB
August 27–29	Chapters 1, 2	**Lab 1** (Friday 8/30)
September 3–5 (2=holiday)	Chapter 3	**Lab 2** (Wednesday 9/4), **Lab 3** (Friday 9/6)
Tuesday, September 10	**Examination #1:**	**Chapters 1, 2, 3**
September 12	Chapter 4	**Lab 4** (Friday 9/13),
September 17–19	Chapters 5, 6	**Lab 5** (Wednesday 9/18), **Lab 6** (Friday 9/20)
September 24–26	Chapter 7	**Lab 7** Friday (9/27)
Tuesday, October 1	**Examination #2:**	**Chapters 4, 5, 6, 7**
October 3	Chapters 7, 8	**Lab 7 repeat** (Friday 10/4)
October 8–10	Chapters 8, 9	**Lab 8** (Friday 10/11)
October 15–17	Chapters 9, 10	**Lab 9** (Wednesday 10/16),**Lab 10** (Friday 10/18)
Tuesday, October 22	**Examination #3:**	**Chapters 7 (again), 8, 9, 10**
Oct. 24 (Oct. 25=holiday)	Chapter 11	
October 29–31	Chapter 11, 12	**Lab 11** (Wednesday 10/30),**Lab 12** (Friday 11/1)
November 5–7 (Nov 11=holiday)	Chapter 13	**Lab 13** (Friday 11/8)
November 12–14	Chapter 14	**Lab 14** (Friday 11/15)
Tuesday, November 19	**Examination #4:**	**Chapters 11, 12, 13, 14**
Nov 21	Chapter 16	
November 26	Chapter 17	**Lab 16** (Wednesday 11/27)
[Nov. 28-Dec. 1 Thanksgiving recess]		
December 3–5	Chapter 18	**Lab 17** (Wednesday 12/4), **Lab 18** (Friday 12/6)
by Thursday, Dec. 12, 10:00 a.m.	**Examination #5: Chapters 16, 17, and 18 (take home)**	
and	**Cumulative Final Exam (take home)**	

GRADES: Your final grade will be based seven items, each worth 100 points:
1-5:   five sectional examinations;
6:       the lab quiz composite (the best 17 of your 19 lab quizzes, times .667); and
7:       the cumulative final exam.
The lowest score among items 1—6 will be dropped [the final exam (7) is not droppable]. Thus your final grade will be based on 600 points, in 10% categories: A = 540 and above;
B = 480-539; C = 420-479; D = 360-419; F = 359 and below.
Grade categories will be "softened" for homework performance as described above.

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September 2=holiday		
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Monday, September 9	**Examination #1:**	**Chapters 1, 2, 3**
September 11	Chapter 4	**Lab 4** (Friday 9/13),
September 16–18	Chapters 5, 6	**Lab 5** (Wednesday 9/18), **Lab 6** (Friday 9/20)
September 23–25	Chapter 7	**Lab 7** Friday (9/27)
Monday, September 30	**Examination #2:**	**Chapters 4, 5, 6, 7**
October 2	Chapters 7, 8	**Lab 7 repeat** (Friday 10/4)
October 7–9	Chapters 8, 9	**Lab 8** (Friday 10/11)
October 14–16	Chapters 9, 10	**Lab 9** (Wednesday 10/16), **Lab 10** (Friday 10/18)
Monday, October 21	**Examination #3:**	**Chapters 7 (again), 8, 9, 10**
Oct. 23 (Oct. 25=holiday)	Chapter 11	
October 28–30	Chapter 11, 12	**Lab 11** (Wednesday 10/30), **Lab 12** (Friday 11/1)
November 4–6	Chapter 13	**Lab 13** (Friday 11/8)
November 11=holiday		
November 13	Chapter 14	
November 18	Chapter 14	**Lab 14** (Monday 11/18)
Wednesday, November 20	**Examination #4:**	**Chapters 11, 12, 13, 14**
November 25, 27	Chapter 16, 17	**Lab 16** (Wednesday 11/27)
[Nov. 28-Dec. 1 Thanksgiving recess]		
December 2–4	Chapter 18	**Lab 17** (Wednesday 12/4), **Lab 18** (Friday 12/6)
by Thursday, Dec. 12, 10:00 a.m.	**Examination #5: Chapters 16, 17, and 18 (take home)**	
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