

PSYC 0308-501

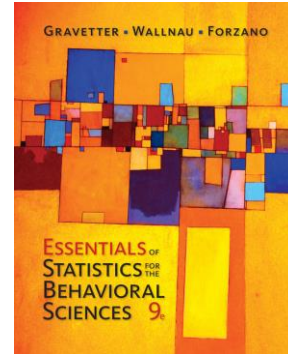
Statistics for Psychologists

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Instructor: Terri Stewart Kinstle, Ph.D.

Email: tkinstle@westfield.ma.edu (once enrolled in the class, all email should occur through Plato)

REQUIRED RESOURCES:



Students will need to have access to:

- (1) Gravetter, F.J., & Wallnau, L.B. (2014). *Essentials of Statistics for the Behavioral Sciences, 9th ed.* Belmont, CA: Wadsworth/Cengage
- (2) Aplia 1-Semester Printed Access Card for Gravetter/Wallnau's *Essentials of Statistics for the Behavioral Sciences, 9th ed.*

In order to have access to these resources, students have 2 options, available through the WSU bookstore:

- (1) Students can purchase Aplia access, which comes with the book in ebook format (no physical copy). For this option, the ISBN is 9781337273343. This is the least expensive option.

-OR-

- (2) Students can purchase Aplia access, which comes with the ebook, AND receive a looseleaf version of the textbook (for those who prefer to have a physical copy of the book). For this option, the ISBN is 9781337593830. This option is slightly more expensive than the first option.

IMPORTANT: Regardless of which option is chosen, students will need to register for Aplia as soon as possible after the course begins on July 5th. Complete instructions and a link for accessing Aplia (which includes the eBook) will be available in the "Start Here" section of the course Plato site. Instructions for accessing the course on Aplia also will be included on the last page of the course syllabus.

SPSS: SPSS stands for "Statistical Package for the Social Sciences." All students will also need to have access to SPSS during this course. For students who are local and can get to WSU, you may use the program for free in any WSU student computer lab. If you are not local or cannot get to campus for some other reason, you will need to purchase an SPSS (Student version/Grad pack) 6-month access code to download the software onto your home computer. You need version 22.0 or a later version. I encourage you to look at the following sites to find the cheapest option (generally \$40-\$65):

www.onthehub.com/spss/

<http://studentdiscounts.com/spss.aspx>

COURSE DESCRIPTION: The application of statistical methods to current research problems in psychology. The selection of procedures appropriate to problems, performance of the procedures, interpretation of outcomes, data tabulation and reduction, measures of central tendency and variability, correlation and prediction, tests of significance, t-test, chi square and analyses of variance. **Prerequisites:** PSYC 0101 and PSYC 0105

LEARNING OBJECTIVES: By the end of this course, students will be able to...

1. Students will understand and apply basic research methods in psychology, including research design, data analysis, and interpretation, including:
 - a. Use appropriate techniques for describing data and making inferences in psychological research
 - b. Interpret basic statistical results
 - c. Distinguish between statistical significance and practical significance
 - d. Describe effect size and confidence intervals
 - e. Evaluate the validity of conclusions presented in research reports
2. Use appropriate software to produce understandable reports of statistical analyses in APA format.

ANTICIPATED TIME COMMITMENT: According to the WSU 2016-2017 Undergraduate Catalog/Student Handbook, each credit hour of direct (in-class) instruction at WSU involves a minimum of an additional two hours per week of work outside of the classroom.

Given this policy, a standard 14-week course would typically involve at least 2 hours of time outside of class for every 1 hour in class. For a 14-week, 3-credit class, students could therefore expect to spend 3 hours in class and another 6 hours (at a minimum) outside of class each week. If the 14-week course were an online course, students could expect to spend at least 9 hours per week on coursework (a minimum of 126 hours total for the course). In a 6-week summer course, the same amount of work is expected, but there is less time to complete it. Students can expect to put in a substantial amount of time each week for this 6-week, online course (at least 21 hours each week).