

## PSY-6110: Quantitative Methods in Psychology - II

University of Toledo, Department of Psychology

Spring 2017; TR 11:00-12:15, UH 5150F

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Office Hours:	W 2:00-3:00, or by appt.	T/R 1:30-3:00, or by appt.

**Course Goals:** This course builds on PSY 6100, Quantitative Methods in Psychology-I, and is designed to solidify knowledge of exploratory data analysis, *t*-tests, effect sizes, power, and ANOVA as well as provide an understanding of correlation, regression, and multiple regression. In addition, practical skills in computerized statistical analysis using SPSS will be emphasized, including using syntax for data management, data transformation, data analysis, and data modeling.

The University of Toledo abides by the Americans with Disabilities Act (equal and timely access) and Section 504 of the Rehabilitation Act of 1973 (non-discrimination on the basis of disability). If you have a disability and are in need of academic accommodations but have not yet registered with the Office of Accessibility (OA) (Rocket Hall 1820; 419-530-4981; [officeofaccessibility@utoledo.edu](mailto:officeofaccessibility@utoledo.edu)) please contact the office as soon as possible for more information or to initiate the process for accessing academic accommodations. I also encourage students with disabilities receiving accommodations through OA to discuss these with me, after class or during my office hours, so that I may be better informed on how to assist you during the semester.

**Prerequisites:** PSY 6100/7100 or an equivalent course

### Texts and Readings:

#### Primary

Field, A. (2013). *Discovering statistics using SPSS* (4<sup>th</sup> Ed.). Thousand Oaks, CA: Sage. (ISBN-10: 1412977525); <http://www.statisticshell.com/> <http://www.sagepub.com/field4e/main.htm>

Howell, D. C. (2013). *Statistical Methods for Psychology* (8<sup>th</sup> Ed.). Belmont, CA: Wadsworth, Cengage Learning (ISBN-10: 1111835489).; <http://www.uvm.edu/~dhowell/methods8/index.html>

#### Secondary

Boslaugh, S. (2005). *An Intermediate Guide to SPSS Programming: Using Syntax for Data Management*. Thousand Oaks, CA: Sage. (ISBN-10: 0761931856)

Green, S. B., & Salkind, N. J. (2016). *Using SPSS for Windows and Macintosh: Analyzing and understanding data* (8<sup>th</sup> Ed.). Hoboken, NJ: Pearson. (ISBN-10: 0134319885)

**Other Helpful Supplies:** Calculator, SPSS Graduate Pack (12-month renewable license; \$76 for standard [Base, Advanced, Regression], \$90 for Premium [everything but Amos])

### Course Requirements:

1. Attend and participate in class.
2. Read the texts and other material when they are assigned.
3. Complete all homework assignments and have them turned in by the start of class.
4. Successfully complete the exams.
5. Use the computers during class just for stats; no email, shopping, Facebook, etc.

**Grading:** Relatively equal emphasis is placed on conceptual knowledge, as demonstrated on exams, and practical knowledge, as demonstrated on homework assignments. Class attendance is expected though no points are assigned. Lowest values for grades: A = 93% (525), A- = 90% (508), B+ = 87% (491), B = 83% (468), B- =

80% (452), C = 70% (396), D = 60% (339). I will assign grades based on how well you master the material but if the whole class does poorly on an exam or assignment, I will make adjustments. Late assignments lose 10% per day. Exam 1 = 30%