Ψ PSY 3605 Psychology Statistics Lab Ψ

Fall Semester 2011

Instructor: Joshua D. Marquit, Ph.D.
Course Location: Weber State University – Ogden Campus, Social and Behavioral Science Building, Room 325
Course Time: Thursday, 12:00pm to 1:20pm
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Office: Room 380E, Social and Behavioral Science Building
Office Hours: Wednesday and Thursday from 2 to 4pm or by appointment

Contact Policy: I am accessible to my students by email and phone. When sending emails, please use my WSU Gmail account (joshuamarquit@mail.weber.edu).

Required Reading Materials

- Salkind, N.J. & Green, S. (2011). *SPSS QuickStarts with SPSS Student Version 18.0*. Upper Saddle River, NJ: Pearson.
    - ISBN-13: 978-02050-2178-9

Course Description and Content:
This course is designed to introduce students to the data management and analysis program, SPSS. Specifically, this course will cover a broad range statistical functions in SPSS including menu and toolbar usage, creating data files and variables, data transformation and management techniques, creating graphs and tables, and conducting descriptive statistics and basic inferential statistics.

Course Objectives:
There are seven key learning objectives for this course. All class activities (e.g. readings, lectures, labs, etc.) are designed to help students meet, and/or assess their progress on, these objectives. In this class, students will:

1. Demonstrate the ability to manage data in SPSS.
2. Demonstrate the ability to conduct some descriptive and inferential statistics.
3. Demonstrate the ability to identify appropriate statistical procedures for basic research questions.
4. Demonstrate the ability to construct and interpret graphical representations of data in SPSS.
5. Learn how to interpret statistical analysis and corresponding output in SPSS.
6. Learn how to report and summarize statistical analysis in APA formatting style.
7. Learn how to interpret the statistical analysis used in psychological science.

Course Structure:
This course is a lecture course and students will be expected to demonstrate their learning through lecture preparation and participation, lab and writing assignments, and quizzes. The purpose of class lectures is to elaborate on material presented in the textbook, conduct data analysis skill-building exercises and demonstrations, work on your lab assignments, and to provide a forum for discussion.

Weekly Readings:
SPSS QuickStarts by Salkind and Green is required reading. Reading assignments will be assigned each week and are to be completed prior to the beginning class.

Make-Up Exams and Missed Deadlines:
In the event of a University-approved absence or a medical problem, please contact the instructor as soon as possible. In general, advance notice and/or appropriate documentation will be required to schedule a make-up quiz or lab assignment. Appropriate documentation may include written notification from a treatment provider.

Grading and Evaluation:
There are 450 points possible in this course. Your grade for this course will be calculated from several areas, as detailed below.

Percentage	Grade
93 - 100	A
90 - 92.99	A-
87 - 89.99	B+
83 - 86.99	B
80 - 82.99	B-
77 - 79.99	C+
73 - 76.99	C
70 - 72.99	C-
67 - 69.99	D+
63 – 66.99	D
0 – 62.99	F

Evaluation Activity	Due Date	Point Total
Attendance and Participation		**125**
Lab Assignment		
Lab #1: Creating and Manipulating SPSS Data Files	**Thursday, 9/8**	**25**
Lab #2: Graphical Representations of SPSS Data	**Thursday, 9/15**	**25**
Lab #3: Z-scores and other Transformations	**Thursday, 9/22**	**25**
Lab #4: Descriptive Statistics	**Thursday, 9/29**	**25**
Lab #5: t-Test Procedures	**Thursday, 10/6**	**25**
Lab #6: One-Way ANOVAs	**Thursday, 10/13**	**25**
Lab #7: Repeated-Measures ANOVAs	**Thursday, 10/20**	**25**
Lab #8: Two-Way ANOVAs	**Thursday, 10/27**	**25**
Lab #9: Correlation	**Thursday, 11/3**	**25**
Lab #10: Linear Regression	**Thursday, 11/10**	**25**
Lab #11: Multiple Regression	**Thursday, 11/17**	**25**
Lab #12: Item Analysis	**Thursday, 12/1**	**25**
Lab #13: Nonparametric Statistics	**Thursday, 12/8**	**25**
Total Points		**450**

Class Attendance:
Class attendance, participation, and discussion are essential to perform well in this course because I will be conducting demonstrations in class to help you learn the course material and complete your lab assignments. For this reason, I will be taking attendance at each class session. Class attendance and participation will be worth a total of 125 points (or approximately 28% of your grade). For those of you that have perfect attendance, I will give you an additional 10 points.

Lab Assignments:
The Lab Assignments are designed to give students the opportunity to learn, build, apply, and demonstrate their skill with SPSS. Throughout the semester, students will participate in 13 Lab

Assignments, each worth 25 points. Each Lab Assignment is due at the beginning of class and should include your SPSS output and the results of your data analysis written in APA formatting.

Students with Disabilities:
Qualified students with disabilities may be eligible for reasonable accommodations. If a student has a disability that will likely require some accommodation by the instructor, the student must contact the instructor and document the disability through the Services for Students with Disabilities (Davis Campus - Room 221, 801-395-3524 or Ogden Campus - Student Services Center, Room 181, 801-626-6413), preferably during the first week of the course. Any request for special consideration relating to attendance, pedagogy, taking of examinations, etc., must be discussed with and approved by the instructor. In cooperation with the Services for Students with Disabilities, course materials can be provided in alternative format, large print, audio, diskette, or Braille.

Academic Integrity and Honesty:
Plagiarizing, cheating, or violating other reasonable standards of behavior will not be tolerated. Any student who engages in academically dishonest behavior will receive an "F" for the course grade. All incidents of cheating will be reported for university-level disciplinary proceedings the results of which can include probation, suspension, expulsion, the assignment of HV (honors violation) to the students permanent transcript, etc.

Changes in Assignments and Schedule:
The instructor reserves the right to make changes to this syllabus at any time. Changes will be announced in class and posted on Canvas.

Tentative Course Schedule:

Month	Date	Class Session	Readings	Lab Assignment Due Dates

Aug.	**25**	**- Introduction - Syllabus Review - SPSS Basics**		
Sept.	**1**	**- Creating an SPSS Data File - Working with an SPSS Data File**	**pp. 8-41**	
Sept.	**8**	**- Creating and Editing SPSS Graphs and Tables**	**pp. 42-57**	**- Lab #1: Creating and Manipulating SPSS Data Files is due in class on 9/8.**
Sept.	**15**	**- Z-scores and other Transformations**		**- Lab #2: Graphical Representations of SPSS Data is due in class on 9/15.**
Sept.	**22**	**- Descriptive Statistics**	**pp. 58-65**	**- Lab #3: Z-scores and other Transformations is due in class on 9/22.**
Sept.	**29**	**- Evaluating Means, Part 1**	**pp. 66-75**	**- Lab #4: Descriptive Statistics is due in class on 9/29.**
Oct.	**6**	**- Evaluating Means, Part 2**	**pp. 76-79**	**- Lab #5: t-Test Procedures is due in class on 10/6.**
Oct.	**13**	**- Evaluating Means, Part 3**	**pp. 80-83**	**- Lab #6: One-Way ANOVAs is due in class on 10/13.**
Oct.	**20**	**- Evaluating Means, Part 4**	**pp. 84-91**	**- Lab #7: Repeated-Measures ANOVAs is due in class on 10/20.**
Oct.	**27**	**- Correlation**	**pp. 92-99**	**- Lab #8: Two-Way ANOVAs is due in class on 10/27.**
Nov.	**3**	**- Regression, Part 1**	**pp. 100-3**	**- Lab #9: Correlation is due in class on 11/3.**
Nov.	**10**	**- Regression, Part 2**	**pp. 104-8**	**- Lab #10: Linear Regression is due in class on 11/10.**
Nov.	**17**	**- Item Analysis**	**pp. 108-21**	**- Lab #11: Multiple Regression is due in class on 11/17.**
Nov.	**24**	**No Class – Thanksgiving Break**		
Dec.	**1**	**- Nonparametric Statistics**	**pp. 122-132**	**- Lab #12: Item Analysis is due in class on 12/1.**
Dec.	**8**	**- Finals Week**		**- Lab #13: Nonparametric Statistics is due in class on 12/8.**