Social Science Statistics  
(Comm Sci 205 - Fall 2013)

Instructor: Dr. Linda Steiner  
Home Phone: (920) 743-1617  
Email: dr.linsteiner@gmail.com  
Office: MAC C324 - Hours: 3:30-4:30 p.m. T/Th (or by appointment)

Time: 5:15-7:30 pm  
When: Tue/Thur  
Where: MAC 204

Required Texts and Materials:


Strongly Recommended: Companion Study Guide for above textbook


SPSS Version 21.0 software (downloadable from UWGB website)

A calculator capable of square-root functions and positive/negative integers.

Course Objectives:

The purpose of this course is to familiarize students with the basic principles, concepts, analyses and applications of statistical procedures used in the behavioral and social sciences. During the semester, you will learn how to perform statistical procedures, and be required to demonstrate your knowledge and abilities on weekly homework assignments, class exercises and exams. In the longer term, you should develop an understanding of why the different statistical methods have been designed (what purpose they serve, the circumstances in which they are used, and what questions they answer). This course will also familiarize students with the use of SPSS software applications that allow for computerized data entry and analysis.

Course Requirements:

Your final grade in this course will be comprised of two components; 1) Weekly lab/homework assignments and, 2) Examinations. The weekly lab assignments will correspond to your work with the SPSS software package in order to assess your ability to enter, analyze and interpret statistical data. There will also be handwritten homework assignments requiring you to apply concepts learned in class lectures and readings. The exams will include closed-option questions (multiple-choice, T/F, and matching) that will represent both conceptual and computational items – as well as computational and conceptual problems in application.

Exams: Each of the four exams will cover reading and lecture material related to several chapters in your text. Class attendance is mandatory, as at times, I will present supplemental information that will not be covered in your reading material. Therefore, your exams will include questions covered in your reading, as well as class lectures. The exams will not be cumulative (meaning that each exam will only cover the material introduced since the previous exam). The exams will be worth 25 points each and, taken together, will constitute 50% of your final grade.
**SPSS Labs & Homework Assignments:** Over the course of the semester, you will be required to complete a series of SPSS Lab assignments using a computer to enter and analyze data. At times, you may also be required to complete and submit handwritten homework assignments that relate to the course material. The lab and homework assignments will be worth 10 points each and represent 50% of your final grade.

**ATTENDANCE POLICY:**

While no points will be attributed to your attendance in this course, it is required that all students attend each session as scheduled. Because course material related to statistical concepts and procedures build upon one another, a missed class can lead to a "gap" in your understanding and comprehension of material and result in barriers to your progress. Therefore, please make every effort to attend each class.

**FINAL GRADE DISTRIBUTION:** Your final grade in this course will be based on the percentage of points earned over the course of the semester and will be issued according to the following distribution:

- 90-100%  A
- 85 - 89.9%  AB
- 80-84.9%  B
- 75-79.9%  BC
- 70-74.9%  C
- 65-69.9%  CD
- 60-64.9%  D
- 59.9% or less  F

**ACADEMIC DISHONESTY:** Students are expected to originate their own work in this class. Any student found engaging in academic dishonesty on an exam or assignment (outside of the boundaries I have presented) will receive a grade of “F” for the course.

**SPECIAL NEEDS:** As required by federal law and UW-Green Bay policy for Individuals with Disabilities, students with a documented disability who need accommodations must contact the Disability Services Office at (920) 465-2841. Reasonable accommodations can be made unless they alter the essential components of the course. Any student requiring special needs should contact the Disability Services Office and the instructor (me) during the first week of class. Every effort will be made to provide each student with the most effective and comfortable learning experience possible.

**LAST DAY TO DROP COURSE:** The deadline to drop this course with 100% tuition refund and no record to your transcript is 9/16/13. If this course is dropped between 9/17 and 9/30, you will receive a 50% refund and it will appear on your permanent record with a symbol of DR (dropped) but will have no effect on your grade point average. After **10/1/13**, a grade will be recorded and you will receive no refund.

Every effort will be made to adhere to readings and assignments as outlined in your course schedule - however, due to unexpected circumstances, changes may become necessary. Any deviation from the planned schedule will be announced in class and via email.
**COURSE SCHEDULE OF READINGS AND ASSIGNMENTS**

**Week 1**  
Course Introduction and Orientation  
Scales of Measurement  
SPSS: Lab 1 assigned (due 9/10/13)

**Week 2**  
Central Tendency (Mean, Median and Mode)  
Text: Chapters 1 & 2  
SPSS: Lab 2 assigned (due 9/17/13)

**Week 3**  
Variance and Standard Deviations  
Distributions, Charts and Graphs  
Text: Chapters 3 & 4  
SPSS: Lab 3 assigned (due 9/24/13)

**Week 4**  
Validity and Reliability  
Text: Chapter 6  
Lab: Lab 4 assigned (due 10/1/13)

**Week 5**  
Test Review – Tuesday 10/1/13  
Exam #1 – Thursday – 10/3/13 (chapters 1, 2, 3, 4 & 6)

**Week 6**  
Introduction to Hypothesis Testing  
Text: Chapter 7  
Lab: Lab 5 assigned (due 10/15/13)

**Week 7**  
Probabilities and Z-Scores  
Text: Chapter 8  
SPSS: Lab 6 assigned (due 10/22/13)

**Week 8**  
Inferential Statistics and Tests of Significance  
Type I and Type II Errors  
Text: Chapter 9  
Exam #2 – Thursday – 10/24/13 (chapters 7, 8, & 9)

**Week 9**  
Independent Groups T-Test  
Text: Chapter 10  
SPSS: Lab 7 assigned (due 11/5/13)
Week 10  Related Groups T-Test
Text:  Chapter 11
SPSS: Lab 8 assigned (due 11/12/13)

Week 11  Analysis of Variance (One-Way & Factorial)
Post Hoc Tests
Text:  Chapters 12 & 13
SPSS: Lab 9 assigned (due 11/19/13)

Week 12  Exam #3 – Tuesday – 11/19/13 (chapters 10, 11, 12, & 13)
Correlations – Thursday 11/21/13
Text:  Chapters 5 & 14

Week 13  Regressions
Text:  Chapter 15
SPSS: Lab 10 assigned (due 12/5/13)
Thursday – No Class – Happy Thanksgiving!

Week 14  Chi-Squares and Non-Parametric Tests
Text:  Chapter 16

Week 15  12/10/13 – Test Review and Course Conclusions

Final Exam #4 (chapters 5, 14, 15 & 16)
TBA