Professor
Dr. Maria Carlson
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Phone: (903) 886 – 5595
Office: Henderson rm 220
Office Hours:
Tues. 1:00pm – 3:30pm (TAMUC)
Wed. 2:00pm – 4:30 pm (CHEC)
& by appointment.

Textbook
Essentials of Statistics for the
Behavioral Sciences, 7th edition,
by Frederick J. Gravetter &
Larry B. Wallnau

ISBN: 978-0-495-81220-3

Recommended Reading:
A Simple Guide to IBM SPSS
for Versions 18.0 & 19.0 by Lee
A. Kirkpatrick.

ISBN: 978-1-111-35268-4

Questions about Grades
Any questions about a grade
for a particular assignment or
exam should be brought to the
professor’s attention within one
week of the grades for that
assignment or exam being
posted.

Grades
Final course grades are based on:
• 4 exams (40% of your overall
grade)
• Attendance (10% of your
overall grade)
• 12 Quizzes (20% of your
overall grade)
• 12 Homework Assignments
(20% of your overall grade)
• Research Participation (10% of your overall grade)

Psychological Statistics

Course Overview
Statistics plays an integral role in interpreting the results of
research. You should exit this course knowing how and when to
compute descriptive statistics (e.g. mean, variance, z-score, and
correlation), and, how and when to compute inferential statistics
(e.g. t-tests, ANOVA) to test hypotheses.

Catalog Description of Course
The logic and methods of descriptive and inferential statistics
and their relation to experimental design in psychology are
studied.

REQUIREMENTS
1) The textbook listed in the margin.
2) A calculator and access to Excel.
3) Access to either the new version of SPSS (called PASW)
or an older version of SPSS. One of these is available in
Henderson 214 (Psychology department computer lab) and
another version is available on library computers
(and many academic libraries and computer labs have
some version of SPSS). Do keep in mind that many
versions of SPSS are not backward-compatible, so you
must be very careful when saving/exporting your work.
For data files, just save as the default .sav file, which
should be accessible in any version of SPSS. However,
for output files, the story is different. You must always
export these files rather than simply saving them; all
output files should be exported as .rtf or .pdf.

HOMEWORK ASSIGNMENTS
There will be twelve homework assignments during the semester.
These assignments are designed to increase your understanding
of the topics being covered and give you the opportunity to apply
course material to real world situations.

QUIZZES
It is helpful for you to review the material presented in this
course. To “encourage” that behavior, you will be required to
complete 12 online quizzes. These will be due on the days
indicated in the schedule of topics listed below.
Grades will be calculated as follows:

- A: 89.5 - 100%
- B: 79.5 - 89.4%
- C: 69.5 - 79.4%
- D: 59.5 - 69.4%
- F: below 59.5%

There will be NO rounding in this course!

**EXAMS**

There will be four exams. *Exams will be cumulative.* On each exam, there will be questions relating to material covered on the previous exam(s). The questions will require not only recognition of concepts and correct answers, but will be designed to test comprehension and application of concepts as well. Material for the exams will be drawn from the text, and the lectures. There will be no make-up exams except as mandated by University policy for University-excused absences, religious holidays and major illnesses. Students should contact the professor *prior* to the scheduled exam if possible, or within 24 hours of missing the exam due to accident or illness, to schedule a makeup exam.

**CLASS ATTENDANCE**

Attendance in this course is mandatory and will account for 10% of your grade. There will be class demonstrations, discussions, and assignments designed to enrich your learning experience. And further, the text for this course is thick with information: coming to class will help clarify concepts and focus your studying. Each student will be allowed 3 unexcused absences; if you have more than 3 unexcused absences you will receive no credit for attendance. All absences will be considered unexcused except as mandated by University policy for University-excused absences, religious holidays and major illnesses.

**RESEARCH PARTICIPATION**

As part of your course requirement, you will need to complete a total of 5 credit hours of research participation. HOWEVER, if you do not have any unexcused no-shows (i.e. you do not show up for a study) you will be required to complete only 3 credit hours. Students who complete have completed their required credit hours will be allowed to complete an additional credit hours for extra credit (not to exceed 9 total credit hours).

Failure to complete the required number of credits will result in the reduction of your final grade by one letter grade. That is, if you have an “A” and do not complete the required credits, your final grade will be a “B.”

You will be able to sign up for various studies through the SONA system. Instructions on how to do this will be provided in a separate handout. Studies are worth different amounts of credit depending upon how long it takes to complete the study. You may sign up for any combination of studies you wish as long as you complete the required number of credits.
A pre-screening questionnaire is required before participating in many of the studies. You may earn .5 credits by completing the pre-screening within the first two weeks of the semester.

The alternative to the research experiment participation will be to complete an original 9-page (single spaced) research project, as specified by your instructor. If you choose to do the research project instead of the research experiments, you must make an appointment and meet individually with the instructor and the written project will be due by May 3, 2013 at 5:00pm.

GENERAL SUGGESTIONS AND CLASS GUIDELINES
This syllabus and course description is provided as a general guideline to assist in your planning. Various circumstances may result in changes to the syllabus or course schedule, and such changes are at the instructor's discretion. A reasonable attempt will be made to communicate such changes to students in advance; however, it is the student's responsibility to keep up with such changes.

Students with Disabilities:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library
Room 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamuc.edu

EMAIL POLICY
If you email me and do not receive an email response within 48 hours, most likely, your email was not received. I will respond to all emails within 48 hours on weekdays.

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a

Officially Dropping from the Course
Students are responsible for officially dropping themselves from the course; failure to do so will result in a performance grade of “F”. The last day to officially drop the course to qualify for a grade of Q is March 29th, 2013.
## SCHEDULE OF TOPICS AND EXAMS

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>CLASS</th>
<th>LAB</th>
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| 1    | 1/16 | Introduction and Syllabus  
Chapter 1: Introduction to Statistics  
**Quiz 1 Due** | Appendix A: Basic Mathematics Review |
| 2    | 1/23 | Chapter 2: Frequency Distributions  
Boxplots  
**Quiz 2 Due** | Basics of SPSS and Excel |
| 3    | 1/30 | Chapter 3: Central Tendency  
**Quiz 3 Due** | Creating Graphs using Excel and SPSS  
**Homework 1 Due** |
| 4    | 2/6  | Exam Review  
Exam 1 Due: 2/8 | Descriptive Statistics using Excel and SPSS  
**Homework 2 Due** |
| 5    | 2/13 | Chapter 4: Variability  
Chapter 5: Standardized Scores & Distributions | Standardized Scores  
**Homework 3 Due** |
| 6    | 2/20 | Chapter 6: Probability  
Chapter 7: Sampling Distributions  
**Quiz 4 Due** | Probability  
**Homework 4 Due** |
| 7    | 2/27 | Chapter 15: Correlation & Regression  
**Quiz 5 Due** | Sampling Distributions  
**Homework 5 Due** |
| 8    | 3/6  | Exam 2 Review  
**Quiz 6 Due**  
Exam 2 Due: 3/8 | Correlation, Regression & Scatterplots using SPSS  
**Homework 6 & 7 Due** |
| 9    | 3/13 | **NO CLASS: Spring Break** | **NO LAB: Spring Break** |
| 10   | 3/20 | Chapter 8: Introduction to Hypothesis Testing | Testing Hypotheses using SPSS  
**Homework 8 Due** |
| 11   | 3/27 | Chapter 9: The z Statistic  
Chapter 12: Estimation  
**Quiz 7 Due** | One Sample t-test using SPSS  
**Homework 9 Due** |
<table>
<thead>
<tr>
<th>Date</th>
<th>Chapter/Assignment</th>
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| 12 4/3 | Chapter 10: Two Independent Samples t Test  
Chapter 11: Two Dependent Samples t Quiz 8 Due |
| 13 4/10 | Exam Review  
Quiz 9 Due  
Exam 3 Due: 4/12 |
| 14 4/17 | Chapter 13: Analysis of Variance Quiz 10 Due |
| 15 4/24 | Chapter 13: Post Hoc Tests  
Chapter 14: Two-Factor ANOVA Quiz 11 Due |
| 16 5/1 | Exam Review |

Comparing Two Independent Groups using SPSS  
Homework 10 Due  
Comparing Two Dependent Groups using SPSS  
Homework 11 Due  
Comparing More Than Two Groups using SPSS  
Multiple Comparison Procedures using SPSS  
Homework 12 Due  
Factorial ANOVA using SPSS