

PSY K300

(Statistical Techniques)

INSTRUCTOR

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COURSE DESCRIPTION

K300 is one-semester, 3-credit hour course designed to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Topics include the nature of statistical data; ordering and manipulation of data; measures of central tendency and dispersion; elementary probability. Concepts of statistical inference and decision: estimation and hypothesis testing. Special topics include regression and correlation, analysis of variance, nonparametric methods.

GENERAL COURSE GOALS

- Explore, organize and describe data using graphs and numerical summaries
- Explore methods for producing data that can give clear answers to specific questions
- Use probability to describe chance, variation and risk to separate reality from background noise
- Draw conclusions about a wider universe while realizing that variation is everywhere and that conclusions are uncertain

TECHNOLOGY

Students are expected to use a TI-84 or TI-89 graphing calculator throughout the course. Students who do not own their own calculator may rent one from the school.

Students will use the textbook's Web site (www.whfreeman.com/tps4e) to take online quizzes and experiment with a number of applets provided. I also have my own Web site (www.frankumstein.com) where students can download worksheets or handouts.

PRIMARY TEXTBOOK

Starnes, Yates, Moore. *The Practice of Statistics*. Fourth Edition. New York: W.H. Freeman and Company, 2010. ISBN: 978-1-4292-4559-3

EVALUATIONS USED TO DETERMINE SEMESTER GRADES

10% Assignment *Quizzes*/Online Quizzes-

70% Tests

20% Final Exam

FINAL GRADE FOR COURSE

Since K300 is a one-semester course, your final grade will be the percentile average of your two semester grades.

COURSE SYLLABI

Course syllabi for each grading period are available at www.frankumstein.com/syllabi.htm.

CLASSROOM BEHAVIORAL EXPECTATIONS

Class Rules: These rules are simple; just have good manners and respect one's self and one another. Behaviors that indicate that one has regressed to an earlier stage of development or one's maturational level is lacking in some areas, or that one just has high attention needs, will not be tolerated. Students who would rather sleep in class, do other work etc., need not attend class and should probably withdraw or will be withdrawn if this behavior is a problem

Electronic Devices: Any use of cell phones (including texting) is not permitted during class time. This certainly falls under the rationale explained above. The behavior is rude and detrimental to requirements of the class.

Tardy and Attendance Policies: See the student handbook

STUDENT ACADEMIC MISCONDUCT

"The *Indiana University Code of Student Rights, Responsibilities, and Conduct* describes types of misconduct for which students may be penalized, including cheating, fabrication, plagiarism and interference with other students' work, as well as actions which endanger the University and the University community and possession of firearms. The Code also indicates the procedures to be followed in these cases. **All students are required to adhere to the responsibilities outlined in the Code.**"

The definition and clarification related to cheating, plagiarism, etc. is found at:

<http://www.iu.edu/~code/code/responsibilities/academic/index.shtml>

A useful link about Plagiarism can be found at:

<http://www.indiana.edu/~wts/pamphlets/plagiarism.pdf>