SM 339 Applied Statistics I

Course Coordinator: LCDR Kyle Caudle (x3-6755)

Text: *The Statistical Sleuth*, Ramsey/Shafer, 2nd Edition

Software: Statistical calculations will be performed using R. R is a language and environment for statistical computing and graphics. R was developed at Bell Laboratories (formerly AT&T, now Lucent Technologies) by John Chambers and colleagues. The best part about R is that it is an open source program and can be downloaded absolutely free via the internet. http://www.r-project.org/

The goal of SM339 is not to make students expert R programmers. Rather, R will be used as a tool to perform the statistical calculations. The end goal will be to produce students who can correctly analyze data and make logical inferences and conclusions.

Student Resources:

- Book Website: http://www.proaxis.com/~panorama/home.htm - There are answers to selected exercises as well as a PDF files that contain the graphics from the textbook.
- R Software download website: http://cran.r-project.org/bin/windows/base/

Approximate Schedule:

Chapters 1-3, finish by 5 Feb (4 weeks)
Chapters 5-6, finish by 3 Mar (3.5 weeks)
Chapters 7-8, finish by 2 Apr (3.5 weeks)
Chapters 9-10, finish by 30 Apr (4 weeks)

Final Examination: The final exam will *essentially* be a common exam for all SM339 students. The final exam will have the students analyze one or two datasets. Individual instructors are free to remove problems that were not emphasized or add problems that were covered in more detail in their sections.

Course:	**SM339**
Title:	**APPLIED STATISTICS I**
Credits:	3-0-3
Description:	An applied study of a variety of statistical methods used in obtaining, presenting, summarizing and analyzing statistical information. Included are strategies for data collection and presentation, and techniques of statistical inference for population, parameters based on the concepts of sampling, probability and distribution theory.
Offered:	Spring 2009-2010
Requisites:	Prereq: SM239 and SM261.