

SM 339 Applied Statistics I

Course Coordinator: LCDR Kyle Caudle (x3-6755)

Text: An Introduction to Mathematical Statistics, *Prentice Hall*, 4th Edition
Stat 2, An Second course in Undergraduate Statistics, *W.H. Freeman*, preprint v.1.1.

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:

- R Software download website:

<http://cran.r-project.org/bin/windows/base/>

Approximate Schedule:

Chapter 6 (Larsen/Marx), finish by 24 Jan (2 weeks)

Chapters 0 & 1 (Stat 2), finish by 14 Feb (3 weeks)

Chapters 2 & 3, (Stat 2) finish by 28 Mar (6 weeks)

Chapters 4 & 5, (Stat 2), finish by 27 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 2010-2011
Requisites:	Prereq: SM239 and SM261.

