

MATH 452/552: Mathematical Statistics

Spring, 2004

MWF 12:30-1:50 Jones 302

Instructor: Larry Leemis

Office: Jones 101C (Phone: 221-2034)

Office hours: Tuesdays and Thursdays 2:00-3:20 PM

Purpose:

A student completing this course should understand the mathematical foundations underlying classical and modern statistical techniques.

Prerequisite:

Multivariate calculus, calculus-based introductory probability.

Text:

Hogg, Robert V. and Craig, Allen T. (1995), *Introduction to Mathematical Statistics*, Fifth edition, Prentice-Hall.

Reference texts:

Casella, George and Berger, Roger (1990), *Statistical Inference*, Wadsworth and Brooks/Cole.

Freund, John E. (1992), *Mathematical Statistics*, Fifth edition, Prentice-Hall.

Mendenhall, William and Sincich, Terry (1992), *Statistics for Engineering and the Sciences*, Third edition, Macmillan.

Rose, Colin and Smith, Murray, *Mathematical Statistics with Mathematica (2002)*, Springer-Verlag.

Grades:

Course grades will be determined by these weights:

Homework	20%
Exam I	25%
Exam II	25%
Final exam	30%

The grading scale for the course will be:

90 - 100 %	A
80 - 90 %	B
70 - 80 %	C
60 - 70 %	D
0 - 60 %	F

Plus and minus grades may be assigned within each range.