

WEBSTER UNIVERSITY

COURSE SYLLABUS

MTHC 5390.01

Craig Hannick

COURSE NUMBER AND SECTION

INSTRUCTOR

STATISTICS

TERM: F I _____

YEAR: 2003

COURSE TITLE

F II _____

SP I _____

50

SP II _____

SITE

SU X _____

1. Course Description: (Student focus, rationale, scope, prerequisites)

Introduction to descriptive and inferential statistics including development of necessary probability topics.

2. Learning Outcomes: (Goals, objectives, course outcomes, etc.)

Students will learn statistics concepts and methods of statistical inference. They will also learn how to use calculator technology to solve statistical problems.

3. Schedule of required readings, class preparations and assignments, lectures, discussions, student presentations, and exams:

CLASS 1: Organizing Data: Looking for Patterns and Departures from Patterns

CLASS 2: Producing Data

CLASS 3: Probability: The Study of Randomness

CLASS 4: More Probability, Random Variables

CLASS 5: The Binomial, Geometric, and Poisson Distributions

CLASS 6: Sampling Distributions

CLASS 7: **EXAM I**

CLASS 8: Introduction to Inference, Inference for Distributions

CLASS 9: Inference for Proportions

CLASS 10: Inference for Tables; Inference for Regression

CLASS 11: ANOVA

CLASS 12: **EXAM II**

4. Resources

Text Used: Yates, Moore & McCabe, "The Practice of Statistics: TI-83 Calculator Enhanced", 1999

Supplemental Readings: (List and indicate how these are to be used.)

Audio Visual/Other: A Texas Instruments TI-83 calculator will be used for class presentations. Students are strongly encouraged to have access to a TI-83.

5. EVALUATION:

- a) Term Paper
- b) Examinations X
- c) Class participation X
- d) Class presentation
- e) Other

This syllabus is subject to change at the discretion of the instructor. Therefore, regular attendance is required.