

## FREC 408

### EXAM 1 OVERVIEW

**Exam Date: Friday, September 26, 2003**

You may bring a single sheet of paper with as many notes on it as you can fit front and back.  
**It must be your paper and not a photocopy of someone else's notes.**

#### The Exam will consist of the following

- 5 True/False worth 4 pts each 20 pts
- 5 Multiple Choice worth 4pts 20 pts
- Several Short/Definitions answer 20 pts
- Two data problems with multiple questions involving measures of central tendency and variability 20 pts each

#### The Exam Covers (Note: primary emphasis is given to what is covered in class)

- Chapter 1
- Chapter 2 (but not cross-classification tables)
- Chapter 3 (but not box plots or correlations)
- All In-Class Notes and Handouts

#### Terms and Concepts to Know

- Descriptive Statistics
- Inferential Statistics
- Population
- Sample
- Random Sample
- Representativeness
- Variable
- Measurement
- Levels of Measurement (nominal, ordinal, continuous)
- Qualitative and Quantitative Data
- Sources of Data (published source, designed experiment, surveys, observational studies)
- Proportions and Percentages
- Frequencies and Relative Frequencies
- Stem and Leaf Plot
- Central Tendency
- Sigma Notation (rules of summation)
- Mean
- Median
- Mode
- Variability
- Maximum
- Minimum
- Range
- Inter-Quartile Range
- Variance
- Total Sum of Squares
- Mean Squared Deviation
- Standard Deviation
- Coefficient of Variation
- Chebyshev's Rule
- Empirical Rule
- Symmetrical Curve
- Z-Scores
- Rare Event Approach