

Math 171
Introduction to Probability and Statistics
Winter 2004

DESCRIPTION The course consists of a study of the methods of elementary probability and statistics. Excel spreadsheet will be used extensively.

INSTRUCTOR: Dr. David Buhl OFFICE: West Science 3505

CLASS: 10:00 - 10:50 M, W, TH, F
 1:00 - 1:50 M, W, TH, F

OFFICE HRS.: 11:00 - 12:00 M,W,Th,F Or by appointment

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Course Content:

Section I: Prerequisite Material

- Topics 1. Descriptive Statistics (Chs 1 & 2).
 2. Probability (Sects 4.1–4.5)
 3. Discrete Probability Distributions (Sects 5.1–5.5)
 4. Continuous Distributions (Sects 6.1–6.5)
 5. Normal Approx to Binomial Distribution (6.6), Central Limit Theorem (Sect 6.7)

Section II: Hypothesis Testing and Confidence Intervals

- Topics 6. Theory. Mean for one population. (Sects 7.1–7.3)
 7. One population mean w/ small samples. Proportions. P-Values. (Sects 7.4–7.6)
 8. Two pops: Means, proportions. (Sects 8.1,2,4,5,6)

Section III: Additional Applications of Statistics

- Topics 9. Regression and Correlation. (Sects 3.1–3.4; 9.1,2,4,5,6)
 10. Analysis of Variance (ANOVA). (Sects 10.1,2,3)
 11. Categorical (Count) Data. (Sects 11.1–11.4)

EVALUATION: (Tentative based on time requirements)

Quizzes:	100 pts
Section 1 Exam:	100 pts
Section 2 Exam:	100 pts
Section 3 Exam:	100 pts
Final- Cumulative:	200 pts

GRADING (Percent)

100 -90 A (-)
89 -80 B (+ or -)
79 -70 C (+ or -)
69 -60 D (+ or -)

ATTENDANCE POLICY: ATTENDANCE IN CLASS IS REQUIRED. Any assignments or quizzes collected will not be accepted if you are absent.

SPECIAL ACCOMODATIONS: If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office at 1104 University Center (227-1737). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.