

Date: OCTOBER 24, 1989

A. Division: APPLIED PROGRAMS

New Course:

B. Department: COMMERCE AND BUSINESS ADMINISTRATION

Revision of Course

Semester/Credits: BUS 357

Subject & Course No.: RESEARCH APPLICATIONS 3

Descriptive Title

Summary of Revisions:

F. Calendar Description:

This course, restricted for HISP program students, is an introduction to statistics in health record information systems with applied computer

Revised)

~~3. Probability and Probability Distributions~~

- ~~approaches to probability~~
- measures of probability or expectation
- mutually exclusive events
- independent and dependent events
- conditional probabilities
- binomial, normal, and poisson distributions

4. Sampling Theory and Techniques

- types of sampling
- surveys
- sampling distributions

5. Statistical Inference

- sampling distribution of the mean
- standard error of the mean
- interval estimation on mean

- estimation of the population

- confidence intervals
- sample size
- estimation of the population proportion
- z-scores, t-distribution, chi-square distribution
- using SPSS in statistical inferences

~~6. Hypothesis Testing~~

- ~~- null and alternative hypotheses~~
- test statistics
- test of significance, decision rule
- Type I and Type II error
- z-test, t-test, chi-square test

hypotheses - using SPSS to test statistical hypothesis

7. Examining Relationships

- linear regression
- standard error of the estimate
- co-efficient of determination

- using SPSS to calculate r^2 and simple regression

NAME AND NUMBER OF COURSE

METHODS OF INSTRUCTION

Computer and application reaction. Students will be required to demonstrate individual usage of computer facilities.

R. COURSE EVALUATION:

40%	1. Assignments (minimum 3)	
20%	2. Mid-term Exam	
30%	3. Final Exam	
	4. Participation	10%
		100%

© 1990 by EDC-OS/CO. All Rights Reserved