



Douglas

Course Information

College

A: DIVISION: INSTRUCTIONAL Date: SEPTEMBER
 B: Faculty: COMMERCE AND BUSINESS New Course:
 REGISTRATION

Program: HEALTH INFORMATION SERVICES Revision of Course: REPLACES 1080

Information form

INTRODUCTION TO BIostatISTICS

E:

3

C:

BUSN 335

D:

Subject Course No.

Description Title

Semester Credit

summary of revisions:

was Biostatistics

This course restricted to BUSN students is an introduction to biostatistics - statistical

methods are used for derived from biological sciences

1080 27 sessions

include descriptive statistics

and health topics covered include

distributions such as the

probability concepts, probability of

Daniel, Vernon W. Biostatistics and Epidemiology
John Wiley and Sons Inc.

Statistical Packages: An Introduction to Statistical Software Packages
John Wiley and Sons Inc.

instructor: _____

Ryan, Barbara and Brian J. Minitab Handbook, Latest Ed. Wadworth Inc.

For one of the following texts could be used:

Barber, K. N. and Casey, J. Data Analysis with Microsoft Excel
Course Technology Inc.

on M. R. Data Analysis Using Microsoft Excel, Latest Ed. Prentice Hall

OBJECTIVES

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The student will be able to:

1. organize and summarize health science data;
2. draw a scientific sample from a population;
3. apply the appropriate inferential statistics technique to reach decisions about a population by examining a sample;
4. apply these statistical techniques both manually and using statistical and spreadsheet software.

7. Distribution of the sample mean: central limit theorem.
8. Distribution of the sample proportion.

10. The t -distribution

of a population proportion

confidence interval for

estimating means.

12. Determination of sample size for e

14. Confidence interval for the variance of a normally distributed population

13. Hypothesis Testing: Formulating and testing a research hypothesis, t -tailed tests about a

15. Hypoth

10. METHOD OF INSTRUCTION