

COURSE IMPLEMENTATION DATE:
 COURSE REVISED IMPLEMENTATION DATE: January 1997
 COURSE TO BE REVIEWED: January 2001
 (Four years after implementation date) (MONTH YEAR format)

OFFICIAL COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.

Shaded headings are subject to change at the discretion of the department and the material will vary - see course syllabus available from instructor

FACULTY/DEPARTMENT:	MATHEMATICS	
MATH 104		4
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
	INTRODUCTORY STATISTICS	
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

An introduction to descriptive statistics, sampling, probability, estimates, hypothesis testing, correlation and regression. This course does not involve mathematical proofs of the theory involved (no calculus is required), but does stress an intuitive approach to why and when the procedures can be used. This course is recommended for arts, education, criminology, and other social science students, or anyone else who wishes to develop the ability to intelligently evaluate published statistical data.

Note: Students with credit for Grade 12 math are expected to take Math 106. Students who have credit for or are enrolled in a calculus course are expected to take Math 106 or Math 270. Students with credit for Math 270 are not allowed to take Math 104 or 106. Students with credit for Math 106 are not allowed to take Math 104. Students with credit for Math 104 or 106 may subsequently take Math 270 in order to satisfy the requirements for a math major.

PREREQUISITES: Math 11, or Math 084 or 084A before September 1992, or Math 085 with a C or better, or permission of the department, or a C in Applications of Math 11.

COREQUISITES:

SYNONYMOUS COURSE(S)	SERVICE COURSE TO:
(a) Replaces: _____ <i>(Course #)</i>	_____
(b) Cannot take: MATH 106 or 270 for further credit. <i>(Course #)</i>	_____

TOTAL HOURS PER TERM: 60	TRAINING DAY-BASED INSTRUCTION	
STRUCTURE OF HOURS:	LENGTH OF COURSE: _____	
Lectures: 60 Hrs	HOURS PER DAY: _____	
Seminar: _____ Hrs		
Laboratory: _____ Hrs		
Field Experience: _____ Hrs		
Student Directed Learning: _____ Hrs		
Other (Specify): _____ Hrs		

MAXIMUM ENROLLMENT: 35

EXPECTED FREQUENCY OF COURSE OFFERINGS: _____

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only) Yes No

WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department) Yes No

TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE: Yes No

AUTHORIZATION SIGNATURES:

Course Designer(s): _____ Linda Riva	Chairperson: _____ <i>(Curriculum Committee)</i>
Department Head: _____ Barry Garner, Ph.D.	Dean: _____ J.D. Tunstall, Ph.D.
PAC Approval in Principle Date: _____	PAC Final Approval Date: November 27, 1996

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

1. To provide the student with an opportunity to learn through practice the logic, methods, and meaning of statistics.
2. To promote an understanding of the statistical techniques being widely applied by business and industry, particularly in relation to decision-making.
3. To help the student develop critical thinking in the application of statistical ideas and to recognize and avoid common misuses of statistics.

Since this is probably the only statistics course that many students will take, the underlying goal is to help the student to become an intelligent consumer of statistics.

METHODS:

Lectures, class discussion, use of statistical software in computing labs.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR (Please check :) Yes No

METHODS OF OBTAINING PLAR:

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Moore and McCabe, Introduction to the Practice of Statistics, Freeman, 1989

SUPPLIES / MATERIALS:

Scientific calculator

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

Midterm exams (2)	40%
Quizzes	20%
Final exam	40%

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

1. Introduction to statistical concepts and various traps.
2. Descriptive statistics:
 - Organizing and presenting data
 - Measures of central tendency
 - Measures of variability, score positions and skewness
 - Linear correlation and simple linear regression
3. Probability and sampling
 - Probability models, the use of Venn and tree diagrams and contingency tables
 - Probability distributions, including binomial and normal
 - Populations versus samples, random sampling, sampling distributions
4. Inferential statistics:
 - Estimation and confidence intervals
 - Hypothesis testing, one and two samples, mean and proportions
 - Hypothesis testing, correlation, regression
 - Chi-square tests

