

COLUMBUS STATE COMMUNITY COLLEGE

MATHEMATICS DEPARTMENT COURSE SYLLABUS

COURSE NUMBER: Math 135

COURSE NAME: Elementary Statistics

CREDIT HOURS: 5

FOLLOW UP COURSE: none

PREREQUISITE: Math 103 with a grade of "C" or higher or placement by COMPASS

COURSE DESCRIPTION

This course is designed to acquaint students with statistical methods used in gathering and analyzing data. The course includes: sampling methods and data classification, descriptive statistics; percentiles and z-scores; basic concepts in probability; binomial and normal probability distributions; the Central Limit Theorem; estimating population parameters; hypothesis testing; and linear correlation and regression.

GOALS OF COURSE

This course is designed to introduce students to the concepts, methods, and uses of statistics. The goal of this course is to develop competence in problem recognition, calculator computation, and interpretation of results. Students will also learn how to use Minitab as a statistical tool to aid in analysis of data.

TEXTBOOK AND SPECIAL EQUIPMENT REQUIRED

- **Understanding Basic Statistics**, 5th Edition, Brase & Brase, Brooks/Cole Publishing, 2010.

(REQUIRED),

- **Texas Instruments' TI-83, TI-83 PLUS, or TI-84 calculator (REQUIRED).**

The CSCC bookstore sells both new and used TI-83 and TI-84 calculators. For additional assistance using the TI series of graphing calculators, see <http://www.education.ti.com/>.

- **Minitab Statistical Software.** This software is available in DH 104, DH107, and off-campus computer labs.

SECTIONS OF TEXTBOOK TO BE COVERED

Chapter 1: 1.1-1.3

Chapter 3: 3.1-3.3

Chapter 6: 6.1-6.3

Chapter 8: 8.1-8.3

Chapters 4 & 11: 4.1-4.2, 11.4