ROWAN UNIVERSITY
Department of Mathematics

Syllabus
STAT 02.100 - Elementary Statistics

CATALOG DESCRIPTION:

STAT 02.100 Elementary Statistics 3 s.h.

Pre-requisite: Basic Algebra II

This course gives a basic introduction to the fundamental concepts and methods of statistics. Its topics include: basic measures of central tendency and variability, graphical displays, descriptive simple linear regression, elementary probability, the normal and t-distributions, confidence intervals and hypothesis testing. Use of a statistical calculator, graphing calculator or software package is required.

Many majors require a different introductory statistics course; students should check their major requirements before signing up for this course.

OBJECTIVES:

The objectives of this course are to provide literacy in statistics. Successful students will gain an understanding of statistical concepts and calculations common to all disciplines.

CONTENT:

1. The relevance of statistics in areas where statistics is used
2. Descriptive statistics and graphical displays
3. Correlation and descriptive simple linear regression
4. Elementary sampling and design of experiments
5. Elementary probability and sampling distributions
6. The normal and t-distributions
7. One-sample confidence intervals and hypothesis testing

POSSIBLE TEXTS:

*Triola, Mario P. **Elementary Statistics**, Pearson/Addison-Wesley. 11th edition, 2010

Mann, Prem S. Introductory Statistics, 6/E, John Wiley..

Moore, David S., **The Basic Practice of Statistics**, 2nd edition. W.H. Freeman, New York, 2000.

Weiss, Neil A., **Elementary Statistics,** 4th edition. Addison-Wesley Longman, Boston, 1999.