WILMINGTON UNIVERSITY
COLLEGE OF ARTS AND SCIENCES
BASIC COURSE INFORMATION

COURSE NUMBER: MAT 302

COURSE TITLE: Principles of Statistics II


RATIONALE:

This course explicitly prepares the student to draw “sensible” conclusions and make decisions based upon data obtained by random sampling or designed experiments.

I. COURSE OBJECTIVES:

Upon successful completion of this course the student will be able to

IDEA- 2 1. Learn fundamental principles, generalizations, or theories
IDEA- 3 2. Learn to apply course material (to improve thinking, problem solving, and decisions)
IDEA- 1 3. Gain factual knowledge (terminology, classifications, methods, trends)

4. Develop and test hypotheses using:
   a. The normal and student’s “t” distributions
   b. Chi-square distribution
   c. Analysis of variance techniques
   d. Non parametric tests

5. Understand and use:
   a. Confidence levels/intervals
   b. Significance testing
   c. Multiple regression

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