WILMINGTON UNIVERSITY
COLLEGE OF ARTS AND SCIENCES
BASIC COURSE INFORMATION

COURSE NUMBER: MAT 301

COURSE TITLE: Principles of Statistics I


RATIONALE:

This course is the foundation for understanding and interpreting quantitative data and the use of such data for decision-making under conditions of uncertainty in the business environment.

I. COURSE OBJECTIVES:

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

1. Learn fundamental principles, generalizations, or theories
2. Learn to apply course material (to improve thinking, problem solving, and decisions)
3. Gain factual knowledge (terminology, classifications, methods, trends)
4. Construct and graph frequency distributions.
5. Compute measures of central tendency and dispersion (e.g., mean and standard deviation).
6. Model bivariate data and calculate linear correlation coefficients.
7. Calculate discrete probabilities under conditions of statistical independence and dependence and appreciate the use of probability theory in business decision-making.
8. Understand and use normal, binomial, and Poisson distributions.
9. Calculate probabilities for continuous, uniform, random variables and continuous, normally distributed, random variables.