WILMINGTON UNIVERSITY

COLLEGE OF BUSINESS

BASIC COURSE INFORMATION

COURSE TITLE: **Statistics for Research**

COURSE NUMBER: **RES 7105**

COURSE DESCRIPTION:

This course provides a survey of statistical techniques to support doctoral research in business and the social sciences. Basic statistical concepts will be reviewed, and the student will be introduced to methods of organizing, interpreting, and presenting quantitative data. Students will gain an understanding of which statistical methods are appropriate for analyzing different research datasets, and how to develop proper statistical interpretations from those analyses. Topics include descriptive statistics, hypothesis testing, probability distributions, sampling and sampling distributions, testing for significance, multiple regression, and regression analysis.

MAJOR INSTRUCTIONAL GOALS:

GOAL A:

Understand the descriptive statistics and utilize them to describe sample data sets.

> **Learning Objectives:** The student will:
>
> A-1   Appraise data variables and measures and be able to organize data for easy analysis.
>
> A-2   Assess

GOAL F:

Utilize measures of association to examine relationships between variables.

Learning Objectives: The student will:

F-1   Assess dependent and independent variables.

F-2   Utilize the correct measure of correlation based on variables' levels of measurement and variables' distributions.

F-3   Select appropriate simple or multiple regression analysis and be able to interpret coefficients of correlation and determination, and construct and interpret confidence and prediction intervals for the dependent variable.

F-4   Support that underlying assumptions for regression analysis are met.