

**UNIVERSITY OF THE INCARNATE WORD
SCHOOL OF GRADUATE STUDIES
MATH 6363
Research Statistics**

Catalog description:

This course will enable students to interpret and use properties of the normal curve, two- and three-way analysis of variance, correlation, simple linear regression, and introductory non-parametric tests. The course will emphasize application and will incorporate the use of a computer package in statistics.

Context:

Prerequisite to the course is one undergraduate course in statistics and computer literacy. Students are expected to refresh their knowledge of statistics before taking this course. The course may be taken in a Master's or Doctoral level program of study for various disciplines by students preparing to be involved in research. The course may not be repeated for credit.

Course overview:

The purpose of this course is to prepare students for competent interpretation and use of statistics in research study and development. SPSS, SAS, Minitab or other computer statistical package will be used in the application of statistical methods to research in disciplines which may include but are not limited to education, social sciences, nutrition, and health care. Topics to be included are listed in the catalog description.

Course outcomes:

Upon completion of the course, students will be able to

Assessment:

The objectives will be assessed as follows

Read and interpret elementary statistical information in a survey of the literature in their discipline. By written exam

Choose among statistical methods, appropriate tests and procedures for the development of quantitative research in their field.

By written exam and semester project

Use a computer package to analyze data in a quantitative study.

By written exam and semester project

Draw and defend conclusions from statistical analysis of data in a research setting. By written exam and semester project

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