

# BMS 235 : Introduction to Biostatistics

This course is designed to introduce students to biostatistics, an applied mathematics discipline concerned with the treatment and statistical analysis of data derived from biological, biomedical, and health-related studies. The course provides an overview of various topics, including the design of research, collection and organization of data, summarization of results, and interpretation of findings. Topics covered include methods of summarizing data, estimation and hypothesis testing techniques, including the t-test, the chi-square test, the analysis of variance, correlation analysis, and linear regression. Additional topics include common research study designs, data collection methods, and sampling. Special emphases of the course are the application of appropriate statistical methods and interpretation of results.

**Credits** 3

**Prerequisites**

MAT 132 or MAT 134