Syllabus for the Introduction to Biostatistics (Math-663)

- Summarizing Data: Descriptive statistics, Graphical techniques.

- Basic probability: Basic principles, Random variables, Bernoulli-Binomial-Normal distributions, Central Limit Theorem and Bayes ' Theorem.

- Statistical Inference: Confidence Intervals and Hypothesis Tests for one and two populations.

- Qualitative Data: Statistical inference for proportions, Cross-Tabulation tables, Chi-Square Tests.

- Analysis of Variance.

- Regression Analysis.

- SAS Software: Applications using the previous material.

Final Grade

Midterm Exam:	35%
Homework (One set of exercises after midterm, return at final exam):	15%
Final Exam:	50%