A. Course Description

Credits: 4

Prerequisites: STAT 201 Statistics I or equivalent. Familiar with statistical software.

Lab Hours/Weeks: Corequisites: None

Lecture Hours/Week:

MnTC Goals: Goal 04 - Mathematical/Logical Reasoning, Goal LS - Upper Division Liberal Studies

This course covers fundamental and intermediate topics in biostatistics, and builds on the ideas of hypothesis testing learned in STAT 201 (Statistics I). The focus is on learning new statistical skills and concepts for real-world applications. Students will use SPSS to do the analyses. Topics include designing studies in biostatistics, ANOVA, correlation, linear regression, survival analysis, categorical data analysis, logistic regression, nonparametric statistical methods, and issues in the analysis of clinical trials.

B. Course Effective Dates: 08/22/2009 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Analyze data from studies using SPSS software.
2. Communicate clearly in writing the results of data analysis.
3. Design appropriate studies to compare treatments.

E. Learning Outcomes (MN Transfer Curriculum)

Goal 04 - Mathematical/Logical Reasoning
1. Apply higher-order problem-solving and/or modeling strategies.
2. Clearly express mathematical/logical ideas in writing.
3. Illustrate historical and contemporary applications of mathematical/logical systems.
4. Explain what constitutes a valid mathematical/logical argument (proof).

Goal LS - Upper Division Liberal Studies
None

G. Special Information

Note: First day attendance required except by instructor permission.