

SU DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
SYLLABUS (Tentative)
MATH 502 Applied Statistics

Objective: To offer a second course in statistics with realistic goals for graduate students. This course is not an introduction to statistics (see prerequisite), nor is it the last course for a serious researcher. Rather, the goal is literacy in applied statistics - the ability to read one's professional journals.

Intended for: Highly-motivated graduate students who know they need a broader and deeper background in statistics.

Prerequisite: A course in statistics.

Texts: Biostatistics for the Biological & health Sciences, 2nd Ed., Triola & Triola, Pearson.
 ISBN: 9780134039015, Workbook to accompany text (optional)
 How to Use SPSS. ISBN: 9781936523443

| | Weeks |
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| <i>Review of Descriptive Statistics & Probability Distributions</i> | 2.0 |
| <i>Review of Estimation & Tests Concerning One Sample</i> | 2.0 |
| <i>Two-Sample Inference</i> | 1.5 |
| <i>Multisample Inference: ANOVA</i> | 2.0 |
| <i>Nonparametric Techniques; Tests for Association: Categorical Data</i> | 2.0 |
| <i>Regression and Correlation</i> | 2.5 |
| <i>Optional Topics: Logistic regression Factor Analysis</i> | 1.5 |
| <i>Tests</i> | <u>.5</u> |
| | 14.0 |

EVALUATION

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| Assignments: quizzes/homework | 30% |
| Mid-term exam | 30% |
| Final exam | 30% |
| Online participation | 10% |

NOTE: ONCE A STUDENT HAS RECEIVED CREDIT, INCLUDING TRANSFER CREDIT, FOR A COURSE, CREDIT MAY NOT BE RECEIVED FOR ANY COURSE WITH MATERIAL THAT IS EQUIVALENT TO IT OR IS A PREREQUISITE FOR IT.