

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.
- Text:** "Fundamentals of Biostatistics," by Rosner; Duxbury Press, 6th edition, 2006.

| | | Weeks |
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| Chapters 1-5 | <i>Review of Descriptive Statistics & Probability Distributions</i> | 2.0 |
| Chapters 6&7 | <i>Review of Estimation & Tests Concerning One Sample</i> | 1.0 |
| Chapter 8 | <i>Two-Sample Inference</i> | 1.5 |
| Chapter 12 | <i>Multisample Inference: ANOVA</i> | 2.5 |
| Chapters 9&10 | <i>Nonparametric Techniques; Tests for Association: Categorical Data</i> | 2.0 |
| Chapter 11 | <i>Regression and Correlation</i> | 2.5 |
| Chapter 13 | <i>Optional Topics from Design & Analysis Techniques for Epidemiologic Studies</i> | 2.0 |
| | <i>Tests</i> | <u>.5</u> |
| | | 14.0 |

EVALUATION

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| Assignments: quizzes/homework | 1/3 |
| Mid-term exam | 1/3 |
| Final exam | 1/3 |

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.