

COURSE SYLLABUS

Course Number: STAT 4620

Course Title: Applied Nonparametric Statistics

Credit Hours: 3

Prerequisites: STAT 3610 or 3010. STAT 2510 with consent of instructor.

Corequisite: n/a

Purpose: Course develops students' abilities to assess the appropriateness of parametric or nonparametric methods for a given statistical problem.

Course Content/Objective:

- Review of elementary probability (1 week)
- Goodness-of-fit Tests (2 weeks)
- Tests for a single location parameter (2 weeks)
- Test for several location parameters (4 weeks)
- Tests for scale parameters (1 week)
- Distribution tests (1 week)
- Measures of Association (2 weeks)
- Tests for Randomness trends (1 week)
- Nonparametric regression (1 week)
- Bootstrap/Permutation tests (1 week)

Possible Textbook:

Applied Nonparametric Statistical Methods, Third Edition, by Peter Sprent (2000)