

**STAT 412/512**  
**Applied Nonparametric Statistics**  
**Fall 2007**

**Instructor:** Arthur Yeh, byeh@bgsu.edu

**Classes:** T 11:30 - 12:45@BAA 1002 and R 11:30-12:45@BAA 2003

**Office Hours:** MW 1:30 - 2:20 p.m. or other times by appointments, BA 344A, 372-8386.

**Text:** *Applied Nonparametric Statistical Methods* (2006) (4th Ed.) by Peter Sprent and Nigel C. Smeeton (Chapman & Hall/CRC).

**Additional References:**

1. *Practical Nonparametric Statistics* (1999), 3rd Edition, by Conover, W. J. (Wiley).
2. *Introduction to Modern Nonparametric Statistics* (2004), by Higgins, J. J. (Duxbury).
3. *Nonparametric Statistical Methods* (1999), 2nd Edition, by Hollander, M. and Wolfe, D. A. (Wiley).
4. *Robust Nonparametric Statistical Methods* (1998), by Hottmansperger, T. P. and McKean, J. W. (Wiley).

**Software Package:** *Minitab 15 and R.*

**Intended Coverage**

1. Introduction (Chapter 1)
2. Fundamentals of Nonparametric Methods (Chapter 2)
3. Location Inference for Single Samples (Chapter 3)
4. Other Single Sample Inferences (Chapter 4)

5. Inferences for Paired Samples (Chapter 5)
6. Inferences for Two Independent Samples (Chapter 6)
7. Inferences for Three or More Samples (Chapter 7)
8. Contingency Tables and Related Topics (Chapters 8, 12 and 13)
9. Correlation and Concordance (Chapter 10)
10. Bivariate Linear Regression (Chapter 11)
11. Robust Estimation (Chapter 14)

### Grading Policy

Assignment	Points
Homework	$20n$
Projects	$2 \times 50$
Midterm Exam	100
Final Exam	100
	$300 + 20n$

1. The final letter grade will be determined by the total points accumulated over the semester. The grade distribution is based on the overall performance of the class.
2. No late homework assignment will be accepted without prior notification. However, a 20% deduction of the grade will be applied toward the late assignment.
3. The midterm is not cumulative. The final exam is cumulative.

### Attendance

Students are **required** not only to attend class but to participate in classroom discussions. Students who miss classes are responsible for the materials covered in those missed classes.