Instructor - Jeff Solka Ph.D. 540-809-9799 (Cell), jsolka@gmail.com

Office Hours - By Appointment Ocuquin Rm. 312C

Schedule - Thursdays 7:20 p.m. – 10:00 p.m. Fairfax Campus, Room TBD 327

Peter Dalgaard, Introductory Statistics with R (optional)

Grading - Grades will be based on weekly quizzes, weekly homework assignments, 2 in class open book and notes tests, I take home test, and one open book and notes final exam. Each of these will contribute to your grade as follows.

Quizzes (5%), Homeworks (30%), Tests (40%), and Final Exam (25%)

The two lowest quiz grades and the two lowest homework grades will be dropped. A subset of the total homework assignment will be graded each week.

Solutions to the homework assignments will be provided each week.

Homeworks will not be accepted late since the 2 lowest homework grades are being dropped.

Grading will be on the standard 10 point college scale. 90-100 (A), 80-90 (B), 70-80 (C), 60-70 (D), below 60 F. Grades will be adjusted with +/- consistent with George Mason University Policies.

Topics Covered
An Introduction to the R Statistics Language
Simple Statistical Visualization and Exploratory Data Analysis
Fundamentals of Probability and Combinatorics
Discrete Probability Distributions
Continuous Probability Distribution
Inferential Statistics
Single Sample Hypothesis Testing
Two Sample Hypothesis Testing
Nonparametric Testing
Categorical Data Analysis
Regression

Typical Rosner Homework Problems Assigned During the Class

2.4, 2.5, 2.6, 2.7, 2.11, 2.12, 2.13, 2.14, 2.15, 2.16, 2.17, 2.31, 2.32, 2.33
3.14, 3.18, 3.21, 3.49, 3.50, 3.52, 3.76, 3.77, 3.78, 3.94, 3.95, 3.96, 3.97, 3.109, 3.109
4.1, 4.2, 4.3, 4.4, 4.15, 4.17, 4.23, 4.26, 4.37, 4.42, 4.63, 4.64, 4.65, 4.93
5.1, 5.3, 5.7, 5.20, 5.23, 5.25, 5.30, 5.72, 5.77, 5.78, 5.79
7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 7.14, 7.19, 7.20, 7.23, 7.29, 7.30, 7.31, 7.51, 7.52, 7.53, 7.54, 7.55, 7.56, 7.71, 7.74, 7.75
8.1, 8.2, 8.10, 8.11, 8.12, 8.13, 8.14, 8.25, 8.26, 8.27, 8.28, 8.59, 8.60, 8.61, 8.62, 8.63

The above problem list is subject to revision.