MAT 750: Statistical Consulting

Instructor
Professor H. Hyune-Ju Kim
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Class Hours TTh 2:00 p.m.-3:20 p.m.
Office Hours W 11:00 p.m.-noon, Th 11 a.m.-noon, and by appointment

Course Objective: The goal is to develop skills needed by a statistical consultant and to expose students to a wide range of statistical applications. Topics include data analysis, problem solving, issues in planning experiments, collecting data, report writing, and oral communication with clients.

Course Outline: We will spend first several weeks to review important and frequently used statistical analyses. Then, we will go over case studies and have class discussion on actual problems, either from clients or from the instructor’s database. Guest lectures are also planned where the guest shares his/her consulting experiences.


References:
• An Introduction to Statistical Methods and Data Analysis, 6th edition, R. Lyman Ott and Micheal T. Longnecker, Brooks/Cole
• Applied Regression Analysis, 3rd edition, N. Draper and H. Smith, Wiley
• The R Book, 2nd edition, M. J. Crawley, Wiley
• A Handbook of Statistical Analyses using SAS, 3rd edition, G. Der and B. S. Everitt, CRC Press

Prerequisite: Course work in applied statistics and data analysis or consent from the instructor

Assignments: There will be a final project for which a written reports is required. In addition, there will be a number of in-class assignments on a variety of topics and the midterm project that would require written reports and presentations.

Course Schedule
Week 1 - Week 4: Review of t-tests, ANOVA, Regression, and Statistical packages
Week 5 - Week 15: Case studies, Guest speakers, Consulting practice sessions

** Final project due: Noon, May 5 (Tuesday)
**Students with Disabilities:** If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), [http://disabilityservices.syr.edu](http://disabilityservices.syr.edu), located in Room 309 of 804 University Avenue, or call 315-443-4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible. You are also welcome to contact me privately to discuss your academic needs although I cannot arrange for disability-related accommodations.

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