MAT 750: Statistical Consulting

Instructor
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Class Hours   TTh  2:00 p.m.- 3:20 p.m.
Office Hours  T  1:00 p.m.-2:00 p.m., W 1:00 p.m.-2:00 p.m.

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 and 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 on diverse topics summarizing the guests’ 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
• Statistical Consulting, J. Cabrera and A. McDougall, Springer

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

Assignments: There will be a major data analysis project for which a written report is required. In addition, there will be a number of in-class assignments and short written reports on a variety of topics.

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

** We will open Thursday classes in April for on-campus clients who make advance appointments, in addition to several one and a half hour time blocks (we will decide the time schedule by the end of the fourth week) for which students of MAT 750 will rotate to consult drop-in clients.

** Final project due: Noon, May 7 (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 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.

**Academic Integrity:** The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see [http://academicintegrity.syr.edu](http://academicintegrity.syr.edu)