Applied Statistics for Research-I

Instructor: Martin A. Tanner, Ph.D.
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Class Info: Tuesday & Thursday 8am – 9:20am

Text: Required: Introduction to the Practice of Statistics by
       D.S. Moore and G.P. McCabe. (3rd , 4th , 5th, 6th , 7th, 8th or 9th edition)

       Optional : SPSS for Windows Student Version

Objective: This course is for graduate students who intend to design
       studies and analyze data. This course stands by itself and also serves
       as a background for further statistics courses, helping to provide
       the intuition which can sometimes be lost amid the formulas.
       Topics to be discussed include normal & binomial distributions, CLT,
       confidence intervals & significance tests, categorical data, ANOVA,
       nonparametric procedures, correlation, simple linear regression, scatterplot
       smoothing and multiple regression. Examples from a variety of fields will
       be presented.

Homework: A variety of problems will be assigned to give you experience with the
       material.

Calculators: Every student should have access to a calculator.

Computation: This course will make use of the SPSS and R statistical packages. No
       previous computer experience is assumed.