
SYLLABUS

Instructor: Tao Shi (taoshi@stat.osu.edu)
Lectures: 3:00 – 4:55 W F in Lazenby Hall 0002
Office: 317 Cockins Hall (CH)
Office Hours: W 11:00 – 12:00, F 2:00 – 3:00, or by appointment

Grader: Jieye Jiang

Course Description
Topics of Stat 6450 include Simple Linear Regression model (SLR), Methodology for fitting SLR, Inference for SLR, Diagnostics for verification of SLR assumptions and their remedies, SLR using Matrix algebra, Multiple Linear Regression model (MLR), statistical methodology for MLR, Inference for MLR, Indicator and Qualitative predictors, Diagnostic measures for MLR, Variables selection and model building in MLR, Generalized Linear Models (GLM), Logistic regression, regression with ordinal and nominal polytomous response.

Prerequisites
Statistics 521, 6201 or equivalent

Course Website carmen.osu.edu (login with your web ID)
Important announcements, course materials, homework problems and solutions, computing references, and other information about the class are posted on the course website.

Textbook

Computing
We will be using the freely available R statistical computing environment.

Homework and Project Assignments
You may discuss the problems with each other in general terms, but you must write your own homework solutions and project reports. Late homework and project report will NOT be accepted. Starting and trying to get help early will be helpful.

Exams
There will be an in-class midterm given on February 26 (tentatively scheduled). A take home final project will be given at the end of the class.

Grading

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