

Statistics 462, Applied Regression Analysis, Fall 2007

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This course consists of two lectures and one computer lab session per week. You are expected to attend both lectures and lab sessions on a regular basis.

Course website: http://www.stat.psu.edu/~chiaro/Stat462_F07 . It is crucial that you check the website regularly for announcements and postings.

Office hours: the instructor will have office hours in each of the lecture days, and the TA in each of the lab session days. You are strongly encouraged make use of the office hours throughout the semester.

Materials: Your main reference text is: Kutner M.H., Nachtsheim C.J. and Neter J. *Applied Linear Regression Models*. IV edition, McGraw-Hill Irwing, Boston. Additional references and useful links will be listed on the course website as needed. Selected lecture and lab materials will also be made available on the website.

Homework Assignments: There will be five homework assignments, posted with due-dates on the course website. Assignments will include some theoretical questions and data analysis problems. You will be given approximately ten days to work on each. Your submissions should be identified with your name and the assignment number, legibly and coherently written, and not include raw computer output (only relevant output with comments). Late submissions will not be accepted, except under exceptional circumstances and with reduced grading. The lowest assignment score will be neglected in the final grade calculation.

Tests: There will be three open-book tests covering similar amounts of material, two during the semester and one on the last day of classes. You will be given the entire class period (~50 minutes) to work on the tests. The lab session or lecture before each test will be devoted to review and preparation, and the one following each test to follow-up and solutions.

Computing: The statistics package used for lab sessions and homework assignments is Minitab. This is available in all Penn State Computer Laboratories, and can be purchased for home use. Minitab has an excellent on-line help tool, and a good reference for it is: Ryan B., Joiner B. *Minitab Handbook*, III edition, Duxbury Press, Belmont.

Grading shares: Homework assignments 25% (neglecting lowest score). Three tests 25% each. Final grades will also take into account the instructor's and TA's assessment of a student's involvement and efforts (e.g. from lecture and lab session attendance, and participation in discussions)

Collaborations: You are strongly encouraged to discuss lectures, lab materials and homework assignments with one another. However, you should always submit separate and individually written homework assignments (giving proper credit to one another if needed), and should not communicate with one another during tests.

All Penn State and Eberly College of Science policies regarding academic integrity apply to this course. For details, see the Eberly College of Science statement at <http://www.science.psu.edu/academic/Integrity/index.html> .