SYLLABUS – STAT 462.001: Applied Regression Analysis

Spring Semester 2014

Department of Statistics, Eberly College of Science
The Pennsylvania State University
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Note: All e-mail correspondence for this course will be through the Course Mail in ANGEL.

Course Meeting Times:
Lecture: M, W 8:00 – 8:50 AM, Room 009 Life Sci. Bldg
Lab: F, 8:00 – 8:50 AM, Room 004 Life Science

Course Description:
Introduction to linear and multiple regression; correlation; choice of models, stepwise regression, nonlinear regression.

Prerequisite: STAT 200, STAT 220, STAT 240, STAT 250, STAT 301 or STAT 401

Course Materials
Textbook (required):

Note: This book is a actually a printing of the first half of a larger text: Applied Linear Statistical Models (5th edition). McGraw-Hill, Inc. Kutner H. M., Nachtsheim J. C., Neter, J. and Li W. (out of print, but if you have this text it will also work for the course).

Calculator: Use of a calculator, for example the TI-83, will be necessary for exams. Cell-phone calculators will not be permitted.

Grader information: (will be announced on ANGEL site)

Grading Procedures: All letter grades will be assigned in accordance with the University’s grading policy. Grades will be based on in-class examinations and graded homework assignments. If you give two answers for a question on homework or exam questions, the wrong one will be graded. Any discussion or contention concerning an assigned grade on an examination will be addressed between the student and instructor. See the Policies and Rules for Students for details.
Examinations and Grades: There will be three in-class hour exams, a final exam, and graded homework assignments. Composition of the final score: Hour Exams = 3*20=60%; Final=25%; Graded Homework 15%. Exam #3 will include an independent project in Regression. Tentative cutoffs are as follows: A, 92% or better; A-, 90; B+, 88%; B, 82%; B-, 80%; C+, 77%; C,70%; D,60%. A no-round-off policy will be used in determining final grades.

Attendance: Attendance at all examinations is mandatory. Attendance at other classes is strongly encouraged. Students are encouraged to read assigned material and attempt to work problems before coming to class, in order to gain a better understanding of the class presentation. Class presentations are not a substitute for reading the textbook, but are used to give relevant examples and alternative ways of thinking about the material, and to emphasize important essentials. Homework assignments are intended to represent a minimum sample of homework a student should do. Late homework assignments will not be accepted. With a valid excuse, the missed homework assignment will not enter into grade calculations. The University provides special procedures for time conflicts on the final exam. Notify me in advance if this will be necessary. Make-ups may not be provided for quizzes or exams other than the final. If you need to miss an exam, for reasons beyond your control, let me know as soon as possible beforehand, so I can assign the average of your other grades in place of the missing grade. Otherwise, a missing exam counts as a zero. This is not the same as automatically dropping an exam, because I will ask for a doctor’s statement or other written evidence in order to average the other grades.

If at any time you have concerns about the course, corrections to my materials or class presentation, suggestions for improvement or the like, please do not hesitate to let me know.

Penn State welcomes students with disabilities into the University's educational programs. If you have a disability-related need for reasonable academic adjustments in this course, contact the Office for Disability Services (ODS) at 814-863-1807 (V/TTY). For further information regarding ODS, please visit the Office for Disability Services Web site at http://equity.psu.edu/ods/.

In order to receive consideration for course accommodations, you must contact ODS and provide documentation (see the documentation guidelines at http://equity.psu.edu/ods/guidelines/documentation-guidelines). If the documentation supports the need for academic adjustments, ODS will provide a letter identifying appropriate academic adjustments. Please share this letter and discuss the adjustments with your instructor as early in the course as possible. You must contact ODS and request academic adjustment letters at the beginning of each semester.