HS237C
Ettner

Schedule of Classes

The course objective is to train students in statistical and econometric methods used in health services research, with a focus on practical application of advanced regression models. The course will be graded on the usual letter scale (A-F or pass/no pass). Classes will be held on Tuesdays and Thursdays from 3-4:50. Grades will be based on class participation (5%), homework assignments (35%) and a final research paper (60%). The research paper will be due at the time scheduled for the class final.

Students must purchase a course reader and the following textbook: J. Scott Long. *Regression Models for Categorical and Limited Dependent Variables*. Advanced Quantitative Techniques in the Social Sciences Series, Volume 7. Sage Publications, Inc. Thousand Oaks, CA: 1997. Additional readings and textbooks for the class are either on reserve at the library or available for free on the web to members of the UCLA community.

Topic	Lecture(s)	Date(s)
Introduction to class, first-difference models	1	Tuesday, April 6
Fixed effects and random effects models	2	Thursday, April 8
Multi-level models	3	Tuesday, April 13
Generalized Estimating Equations	4	Thursday, April 15
Utility theory framework for qualitative choice models ***Homework #1 due***	5	Tuesday, April 20
Review of logit and probit models	6	Thursday, April 22
Multinomial and conditional logit models	7	Tuesday, April 27
Nested logit models	8	Thursday, April 29
Ordered logit models ***Homework #2 due***	9	Tuesday, May 4
Taylor series, bootstrapping, and simulation methods for deriving confidence intervals ***Paper proposals due***	10	Thursday, May 6
General discussion of proposals	11	Tuesday, May 11
Count data models (Poisson, negative binomial, zero inflation) ***Homework #3 due***	12	Thursday, May 13
Two-part models	13	Tuesday, May 18
Tobit models ***Descriptive statistics due***	14	Thursday, May 20
Sample selection models ***Homework #4 due***	15	Tuesday, May 25
Treatment effects and bivariate probit models	16	Thursday, May 27

Two-stage least squares ***Homework #5 due***	17	Tuesday, June 1
Two-stage least squares (cont'd)	18	Thursday, June 3
Instrumental variables with nonlinear variables ***Homework #6 due***	19	Tuesday, June 8
Propensity scores and generalized linear models	20	Thursday, June 10

Final paper due Thursday, June 17th, by 5 p.m.