

Courses in Statistical Methods etc, 2004-5

First year courses

Autumn

EDUC 160. Introduction to Statistical Methods in Education—

(Master's students register for 150X.) Introduction to quantitative methods in educational research for doctoral students with little or no prior statistics. Organization of data, descriptive statistics, elementary methods of inference, hypothesis testing, and confidence intervals. Computer package used. Students cannot also receive credit for PSYCH 60 or for STATS 60/160. (all areas) 4 units, Aut (Shavelson)

Winter

EDUC 250A. Statistical Analysis in Educational Research—Primarily for doctoral students. Regression and categorical models are widely used data-analytic procedures. Topics: basic regression including multiple and curvilinear regression, regression diagnostics, analysis of residuals and model selection, logistic regression, analysis of categorical data. Proficiency with statistical computer packages. Prerequisite: 160 or equivalent. (all areas) 4 units, Win (Haertel)

Spring

EDUC 250B. Statistical Analysis in Educational Research: Analysis of Variance

Primarily for doctoral students. Analysis of variance models are among the most widely used data analytic procedures, especially in experimental, quasi-experimental, and criterion-group designs. Topics: single-factor ANOVA, the factorial between and within subjects and mixed design ANOVA (fixed, random, and mixed models), analysis of covariance, multiple comparison procedures. Prerequisite: 160X or equivalent. (all areas) 4 units, Spr (Shavelson)

Second year courses

Autumn

Winter

Spring

EDUC 257A,B. Statistical Methods for Behavioral and Social Sciences

For students with experience and training in empirical research. Analysis of data from experimental studies through factorial designs, randomized blocks, repeated measures; regression methods through multiple regression, model building, analysis of covariance; categorical data analysis through log-linear models, logistic regression. Integrated with the use of statistical computing packages. Prerequisite: analysis of variance and regression at the level of first year courses 3 units, A: Win, B: Spr (Rogosa)

Prior Course web page at <http://www.stanford.edu/class/ed257/> or <http://www.stanford.edu/~rag/>

Third/Fourth year courses

Autumn

Winter

Spring

EDUC 351, Design and Analysis of Longitudinal Research

Days/Times/Classroom: T 02:15PM-05:05PM
EDUC313 Course web page available from <http://www.stanford.edu/~rag/>

not given 2004-05

EDUC 260AB. Popular Statistical Methods
<http://www-stat.stanford.edu/~rag/ed260/>

EDUC 353A. Problems in Measurement: Item Response Theory—

EDUC 353C. Problems in Measurement: Generalizability Theory—