SCHOOL OF EDUCATION
Research Methodology Program Presents
SUMMER 2015 STATISTICS WORKSHOP

Workshop Details

Data Analysis Using SPSS
May 28-29
Instructor: Clement Stone
$495

Data Analysis Using SAS
June 3-5
Instructor: Clement Stone
$595

Introduction to Item Response Theory
June 11-12
Instructor: Clement Stone
$495

Introduction to Hierarchical Linear Model
July 15-17
Instructor: Feifei Ye
$595

Introduction to Structural Equation Model
July 22-24
Instructor: Feifei Ye
$595

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IS LIMITED
Data Analysis Using SPSS: May 28-29
The course is an introductory course in using SPSS for data analysis. The course focuses on quantitative methods where specific attributes or variables are measured according to different scales of measurement. Statistical procedures are then applied to study relationships between the variables. The course addresses all stages to data analysis.

Data Analysis Using SAS: June 3-5
The course is an introductory course in using SAS for data analysis. The course focuses on quantitative methods where specific attributes or variables are measured according to different scales of measurement. Statistical procedures are then applied to study relationships between the variables. The course addresses all stages to data analysis.

Introduction to Item Response Theory: June 11-12
The course is an introductory course in item response theory (IRT) and the application to assessments in the educational, psychological, health, social, and behavioral sciences. To support the development of instruments and measure characteristics in individuals, test theories such as IRT have been used to describe how inferences, predictions, or estimates of a particular characteristic or trait of a person may be made from responses to items. In addition, applications of IRT provide methods for selecting items, evaluating tests or scales, obtaining scores, and quantifying sources of errors in the measurement process.

Introduction to Hierarchical Linear Model: July 15-17
The purpose of this three-day course will introduce hierarchical linear models for continuous outcomes. Topics include two-level, cross-sectional studies (e.g., persons are nested within groups), two-level studies of individual growth, three-level models (e.g., students nested within classrooms nested within schools) and optimal design of multilevel and longitudinal research. Analyses will be demonstrated using HLM7 software. Participants are expected to have a working knowledge of multiple regression as well as statistical software for data management (e.g., SPSS, SAS, STATA).

Introduction to Structural Equation Model: July 22-24
This workshop will introduce structural equation modeling and reasons of its popularity. The workshop will help researchers 1.) identify questions in a SEM and 2.) how to interpret findings from a SEM. Some of the topics include path analysis, confirmatory factor analysis, SEM with latent variables, mediation, and multi-sample SEM. Analyses will be demonstrated using SAS PROC CALIS and Mplus. Participants are expected to have a working knowledge of multiple regression.