

Sample Schedule for APA's Advanced Training Institute on SEM

Day 1: Basic Issues in Longitudinal Data and Structural Equation Modeling

- 9:00-9:15: **A:** Introduction to structural equation modeling in longitudinal data analysis
- 9:15-10:15: **B:** Structural regression with two-occasion longitudinal data
- 10:45-12:00: **C:** Computer techniques for longitudinal regression
- 1:30- 2:45: **D:** Modeling change using latent variable factor analysis models
- 3:15- 4:30: **E:** Computer techniques for longitudinal factor analysis
- 4:30- 5:00: **F:** References; question & answer session
- 6:30- 8:00: Open computer lab session

Day 2: Latent Growth and Change using Structural Equation Modeling

- 9:00-10:15: **G:** Foundations of latent growth curve and mixed-effects multilevel models
- 10:45-12:00: **H:** Computer techniques for longitudinal mixed-effects analyses
- 1:30- 2:45: **I:** Multiple groups in latent growth curve and mixed-effects models
- 3:15- 4:30: **J:** Computer techniques for multiple group data
- 4:30- 5:00: **K:** References; question & answer session
- 6:30- 8:00: Open computer lab session

Day 3: Dealing with Unbalanced and Incomplete Longitudinal Data

- 9:00-10:15: **L:** Basic theory for dealing with unbalanced and incomplete data
- 10:45-12:00: **M:** Computer techniques for unbalanced and incomplete data
- 1:30- 2:45: **N:** Incomplete data solutions for more complex design problems
- 3:15- 4:30: **O:** Computer techniques for complex designs
- 4:30- 5:00: **P:** References; question & answer session
- 6:30- 8:00: Open computer lab session

Day 4: Issues in the Analysis of Categorical Longitudinal Data

- 9:00-10:15: **Q:** Concepts of change based on categorical outcomes
- 10:45-12:00: **R:** Computer techniques for longitudinal categorical data
- 1:30- 2:45: **S:** Advanced issues in longitudinal categorical data, including survival
- 3:15- 4:30: **T:** Computer techniques for longitudinal categorical data
- 4:30- 5:00: **U:** References; question & answer session
- 6:30- 8:00: Open computer lab session

Day 5: Multivariate Extensions of Longitudinal Structural Modeling

- 9:00-10:15: **V:** Modeling change using latent difference score models
- 10:45-12:00: **W:** Computer techniques for longitudinal dynamic data
- 1:30- 2:45: **X:** Multivariate dynamics based on latent difference scores
- 3:15- 4:30: **Y:** Computer techniques for longitudinal dynamic data
- 4:30- 5:00: **Z:** References; question & answer session