

COURSE TITLE: Structural Equation Modeling (SEM)

INSTRUCTOR: Levente Littvay

Schedule

Online component

May 10 – June 23

	Topic title	Mandatory Readings
Intro	Course overview	
1	Introduction to what SEM is and Review of Relevant Statistical Concepts	Kline Ch 1-3
2	Model Specification	Kline Ch 5
3	Model Identification	Kline Ch 6
4	Estimation and Hypothesis Testing	Kline 7-8
5	Recursive and Non-recursive Path Models and Model Modification: (Examples: Path Models, Mediation and Panel Causation)	
6	Confirmatory Factor Models	Kline Ch 9
7	Full Structural Models (including multi-step and one step modeling)	Kline Ch 10
8	Introduction to Advanced Techniques I: Mean Structures, Latent Growth Missing Data Correction, Generalized SEM with Link Functions	Kline Ch 11
9	Introduction to Advanced Techniques II: Multiple Group Analysis, Invariance, Mixture and Multilevel SEM	Kline Ch 12
10	Pitfalls and Fair Warning	Kline Ch 13

On-campus component

June 24 – June 27

Day	Topics (estimate about 5hrs of work)
1 Intensive Workshop	Data Management, Path Models, Confirmatory Factor Models, Full Structural Models
2 Project Presentations	Individual Presentations with Discussion
3 Project Development	Small Group Work on Project Improvement