

Structural Equation Modeling

Spring 2021

Course Overview

This course builds on measurement concepts (i.e. survey items analysis and exploratory factor analysis) and regression analysis to create complex modeling that combines measurement models with structural regression models to create full structural equation models. These models are ideal for establishing causal effects, confirming measurement models, and understanding confounding variables.

Course Goals & Learning Objectives

By the end of this course students will be able to:

- Create and test hypotheses using confirmatory modeling.
- Conduct and report a confirmatory factor analysis
- Conduct and report a path analysis hypothesis
- Examine mediators and moderators.
- Conduct and report a full structural equation model.
- Create a model to test with 'real' data and write up results for a conference presentation.
- Present findings of SEM models

Check out a short video on SEM: <https://youtu.be/Xs0LAptKbQY>

This course will be fully online with synchronous sessions every other Tuesday night from 5:00-7:45 pm. Email Courtney.Donovan@ucdenver.edu for more information.