



# RWFM 678

## LATENT VARIABLE MODEL APPLICATIONS

This 3 hr (face-to-face) course is intended to introduce students to structural equation modeling (SEM). Structural equation modeling, sometimes referred to as covariance structural analysis, is a regression-based technique that incorporates elements of path analysis and confirmatory factor analysis. The goal of the class is to provide PhD and advanced MS students with a background on conceptual issues, an application of the method, and insight on programming through LISREL.

### OUTCOMES

- Develop understanding of basic principles of psychometric measurement.
- Develop conceptual and operational understanding of latent variables and latent variable modeling.
- Be able to conceptualize and empirically test measurement/structural models in LISREL.

#### *Background needed:*

*Students should have some background with psychometric measurement, factor analysis, and regression/path modeling prior to course.*

#### *Software requirements:*

*Students will need access to statistical software (e.g., SPSS, STAT, Minitab or other preferred platform). The course will provide access to LISREL (student version) for measurement and modeling exercises.*

### Questions?

Contact Gerard Kyle, PhD  
gerard.kyle@ag.tamu.edu