

## Homework 6 (Due Date: May 29, Monday)

“rawdata.csv” contains simulated data from a study on attitudes by Fredricks and Dossett (1983). In their study,  $x_1$  and  $x_2$  are two measures of attitude,  $y_1$  and  $y_2$  are two measures of intention, and  $y_3$  and  $y_4$  are two measures of behavior. Test the structural model with latent variables in the figure below.

1. What is the goodness fit of the measurement model? Do you need to modify the measurement model? Modify the measurement model if needed.
2. What is the goodness fit of the structural equation model? Are there any non-significant paths in the model ( $\alpha = 0.05$ )? Modify the structural equation model if needed.
3. Please show the 95% confidence interval of the non-standardized direct effect and the non-standardized indirect effect. What is the effect of attitude on behavior – that is, does it affect behavior directly or only indirectly through intention?

