The following dataset includes many demographic and motivational variables predicting student’s withdrawal rates for their first year of college. You will set up and test a path model predicting withdrawal for students.

Some example ideas:

* Demographics 🡪 satisfaction / commitment 🡪 intentions to quit 🡪 withdrawal
* Demographics 🡪 student success 🡪 intentions to quit 🡪 withdrawal
* Demographics 🡪 semester / career goals 🡪 intentions to quit 🡪 withdrawal
* Other combinations of included variables. Try at least four variables predicting withdrawal with at least 3 points (something 🡪 something 🡪 withdrawal … they cannot all predict withdrawal separately).

1. First, pick the variables you want to use.
   1. Eliminate all the missing data (makes AMOS grumpy), or use estimate means for a small number of missing items (<5%).
   2. Data screening (traditional fake regression style):
      1. Multivariate normality
      2. Multivariate linearity
      3. Multivariate homoscedasticity
      4. Outliers
      5. Multicollinearity
2. Sample size: do you have an adequate sample size for the data?
3. Estimate the degrees of freedom before you run 🡪 did you get it correct?
4. Test your first model and include a picture.
5. Modification indices 🡪 what would you suggest changing about your model?
   1. Did it help by changing it?
6. Did you see any Heywood cases?
7. Include a picture of the final path diagram, with the estimates on the diagram.
   1. Which estimates were significant?
8. Fit indices table
   1. Include important fit indices discussed (X2,RMSEA, SRMR, CFI).
   2. Include for each change/step you took with the model (i.e. first model, then each modification change you tried, one path at a time).

Include an APA style write up with all of the above information and this document with your notes. It does not have to be super formal, but be sure to answer every question in some way (see Tabachnick for example write up).