

# Group 42

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For Assignment 2, you will conduct a CFA and report the results via this worksheet.

- Provide the requested information for each of the following items.
- Be concise.
  - Only include the necessary information.
  - You won't get any extra credit for extraneous information.
  - Waffling will hurt your grade.
- Replace the placeholder values in the front matter with your Assignment 2 Group's details and the appropriate date.
- Submit your completed worksheet as a PDF document.
  - Any other file format will hurt your grade.

*NOTE:* The relative weights for each item are given in brackets.

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**0.1 Which dataset are you using? [1]**

**0.2 Describe your hypothesized measurement model. [2]**

- *What latent factors are you estimating?*
- *Which items will you use to define each latent factor?*
- *Why is your factor  $\rightarrow$  item mapping justified?*

**0.3 Provide a path diagram of your theoretical measurement model. [2]**

**0.4 Provide the lavaan syntax for your model. [2]**

**0.5 Use the `lavaan::cfa()` function to estimate your model. [2]**

**0.6 Report the relevant parameter estimates from your fitted model. [3]**

- *Don't include the entire model summary.*
- *The `lavaan::lavInspect()` or `lavaan::parameterEstimates()` functions could be useful here.*

**0.7 Report the  $R^2$  estimates from your fitted model. [2]**

- *Again, `lavInspect()` is your friend.*

**0.8 Report a suitable set of model fit indices for your estimated model. [3]**

- *Don't include every fit index lavaan provides.*

**0.9 Do your results support the validity of your hypothesized model? [4]**

- *Explain why or why not.*

**0.10 Do you think the model could be improved? [2]**

- *If so, explain how you would modify the model.*
  - *If not, explain why no improvement is possible.*
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