# Development of a Survey Instrument to Measure Student Response to Instructional Practices 

Matt DeMonbrun \& Cynthia Finelli, Ph.D.
University of Michigan


This materiai is based upon work supported by the National Science Foundation under DUE
Awards 11347411, , 347482, 1347580, and 1347711 . Any opinions, , indingss, and conclusions ecommendations expressed are those of the authors and do not necessarily reflect the views of

## Results

- We have initial results from students' responses to our eight piloted course - Six active learning and two traditional (lecture-based) courses were included


Table 2: Confirmatory Factor Analyses for Student Responses to Instruction

|  | Standardized factor | Stardard |  | Comat | cirime |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| Iteme | $\begin{gathered} 0.78 \\ 0.85 \\ 0.89 \end{gathered}$ | $\begin{aligned} & 0.09 \\ & 0.03 \\ & 0.03 \end{aligned}$ | cos $\substack{0.89 \\ 0.85}$ |  |  |
| Factor 2: Posititity |  |  |  | 0.72 | ${ }^{0.86}$ |
| I felt positively towards the instructor I felt the instructor had my best interests in mind | $\begin{aligned} & 0.65 \\ & 0.55 \\ & 0.57 \end{aligned}$ | $\begin{gathered} 0.00 \\ 0.007 \\ 0.07 \end{gathered}$ | $\begin{gathered} 0.658 \\ 0.052 \\ 0.02 \end{gathered}$ |  |  |
| Factor 3 P Praticipation |  |  |  | 0.77 | ${ }_{0} .84$ |
|  | $\underset{\substack{0.58 \\ 0.65}}{ }$ |  | (0.70 |  |  |
|  | ${ }_{\substack{\text { a } \\ 0.64 \\ 0.65}}^{0.6}$ | ${ }_{0.09}^{0.09}$ | ${ }_{\substack{0.788 \\ 0.08}}^{0 .}$ |  |  |
| Fatarat 4 Distaration |  |  |  | 0.73 | ${ }^{0.85}$ |
|  | $\underbrace{}_{\substack{0.38 \\ \text { a. } \\ 0.65}}$ | $\underbrace{\text { a, }}_{\substack{0.08 \\ 0.06}}$ | $\underbrace{}_{\substack{0.78 \\ 0.058 \\ 0.65}}$ |  |  |
|  |  |  |  |  |  |
|  | ${ }_{\substack{0.70 \\ 0.63}}^{0.0}$ | ${ }_{0}^{0.066}$ | ${ }_{0}^{0.65}$ |  |  |
|  | ${ }_{0} .82$ | 0.05 | 0.60 | 0.72 | 0.93 |
|  | 0.82 |  |  |  |  |

- We conducted EFA on Fall 2014 data and found five factors for student response - We conducted CFA with same five factors on Spring 2015 data and found that all five factors had acceptable construct reliability and factor loading
- Two survey measures loaded strongly on two different factors (Distraction and Participation)
- We split these items into four different questions to address both constructs


## References

[^0]
[^0]:    
    
    
    
    
    
    
    
    

