# Agenda: MST 6600 February 28, 2018

Debrief for week 8:

1. Feel like we have covered the basics; next several weeks will be applications.
2. Acknowledge everyone is working through the materials.
3. If you have any issues and want to address them in a one-on-one session, I’ll work with you to set a time to meet.
4. I’ve really enjoyed this class and I’m glad to be here.

Modeling discussion:

1. What is modeling? (depends on the discipline)
   1. forecasting
   2. testing a theoretical model against experimental data
   3. ?
   4. ?
2. Why include a model of your data?
   1. ?
   2. ?
   3. ?

First in-class example

1. Simple line fit (“Curve fitting simplified revb.R” script file)
2. “real” data examples:
   1. lm() model applied to chromatograph data (“lm and nls example script.R” script file)
   2. nls() model applied to kinetics data

BREAK

NIST Case studies (Rmd file)

1. Load Cell Calibration
2. Thermal expansion of Copper

Meeting outcomes:

1. Understand the lm() and nls() methods for modeling data.
2. Extend these methods to original datasets.