# BIOS 6643 – Data Notes

### What is the data?

The provided data contains daily weights for overweight or obese participants. Participants used a Bluetooth scale daily to weigh themselves. There are 3 cohorts in the study. These cohorts indicate participants who started the study around the same time.

For each cohort, how many days do we have recorded? – summarize this

Cohort 1

29 people beginning 04/10/2018 – 07/01/2018 (All but 1 began on in April and May)

Ending between 11/14/2018 – 02/20/2020

Mean study days 546.6 (95% CI: 324.8, 600.0)

Cohort 2

27 people beginning 02/13/2019 – 09/30/2019 (All but 2 began between 02/13/2020 – 02/16/2020)

Ending between 12/22/2019 – 04/20/2020 (All but 2 ended between 04/05/2020 – 04/20/2020)

Mean study days 412.85 (95% CI: 233.4, 433.0)

Cohort 3

37 people beginning 09/30/2019 – 11/05/2020 (No weird dates here)

Ending between 12/02/2019 – 04/20/2020 (All but two ended in March or April)

Mean study days 178.35 (95% CI: 79.7, 202.0)

### Visualization

Spaghetti Plots over the course of the study and by month. Color by cohort.

### Analysis Plan

GEE

Spline Model

FDA