

**Generalized Estimating Equations and Mixed-Effects Models
for Longitudinal Data Analysis**
UW SISCER 2024, Module 7

Overview and Schedule

*All times are Pacific Daylight Time (PDT)

Time	Activity	Mode
Day 1 (Monday, July 15)		
8:30 - 8:40	Introductions and logistics	Live lecture
8:40 - 9:30	Case studies & exploratory analysis	Live lecture
9:30 - 9:45	Break	
9:45 - 10:45	Walkthrough: set up & making graphs	Live lecture + activity
10:45 - 11:00	Break	
11:00 - 12:00	Methods for continuous data, part 1	Live lecture
Day 2 (Tuesday, July 16)		
8:30 - 8:45	Recap of Day 1	Live lecture
8:45 - 9:30	Methods for continuous data, part 2	Live lecture
9:30 - 9:45	Discussion & questions	Live lecture
9:45 - 10:00	Break	
10:00 - 11:00	Walkthrough: continuous outcomes	Live lecture + activity
11:00 - 11:15	Break	
11:15 - 11:30	Review of generalized linear models for independent data	Live lecture
11:30 - 12:00	Methods for binary and count data, part 1	Live lecture
Day 3 (Wednesday, July 17)		
8:30 - 8:45	Recap of Day 2	Live lecture
8:45 - 9:15	Methods for binary and count data, part 2	Live lecture
9:15 - 9:30	Discussion & questions	Live lecture
9:30 - 9:45	Break	
9:45 - 10:45	Walkthrough: binary or count outcomes	Live lecture + activity
10:45 - 11:00	Break	
11:00 - 11:45	Special topics: missing data and time-dependent covariates	Live lecture
11:45 - 12:00	Wrap-up	Live lecture