

Course Schedule

1/23	Lecture: Reading:	Longitudinal and Clustered Data FLW, Chapter 1
1/28	Lecture: Reading:	Longitudinal Data: Basic Concepts FLW, Chapter 2, Appendix A
1/30	Lab 1:	Introduction to SAS (Review)
2/4	Lecture: Reading:	Overview of Linear Models for Longitudinal Data FLW, Chapter 3
2/6	Lecture: Reading:	Estimation and Statistical Inference FLW, Chapter 4
2/11	Lecture: Reading:	Modeling the Mean: Analyzing Response Profiles FLW, Chapter 5
2/13	Lab 2:	Analyzing Response Profiles using PROC MIXED in SAS
2/18	Lecture: Reading:	Modeling the Mean: Parametric Curves FLW, Chapter 6
2/20	Lab 3:	Fitting Parametric Curves using PROC MIXED in SAS
2/25	Lecture: Reading:	Modeling the Covariance FLW, Chapter 7
2/27	Lab 4:	Fitting Covariance Pattern Models using PROC MIXED in SAS
3/4	Lecture: Reading:	Linear Mixed Effects Models FLW, Chapter 8
3/6	Lecture: Reading:	Fixed Effects versus Random Effects Models FLW, Chapter 9
3/11	Lab 5:	Fitting Linear Mixed Effects Models using PROC MIXED in SAS Fitting Linear Fixed Effects Models using PROC GLM in SAS
3/13	Lecture: Reading:	Residual Analyses and Diagnostics FLW, Chapter 10
3/25	Lecture: Reading:	Review of Generalized Linear Models FLW, Chapter 11
3/27	Lecture: Reading:	Marginal Models: Generalized Estimating Equations FLW, Chapters 12-13
4/1	Lab 6:	GEE using PROC GENMOD in SAS

4/3	Lecture: Reading:	Generalized Linear Mixed Effects Models FLW, Chapter 14
4/8	Lab 7:	Fitting Generalized Linear Mixed Models using PROC GLIMMIX in SAS
4/10	Lecture: Reading:	Contrasting Marginal and Mixed Effects Models FLW, Chapter 16
4/15	Lecture: Reading:	Missing Data and Dropout: Overview of Concepts and Methods FLW, Chapter 17
4/17	Lecture: Reading:	Missing Data and Dropout: Multiple Imputation and Weighting Methods FLW, Chapter 18
4/22	Lab 8:	Multiple Imputation using PROC MI in SAS Inverse Probability Weighted (IPW) Methods in SAS
4/24	Lecture: Reading:	Smoothing Longitudinal Data: Semiparametric Regression Models FLW, Chapter 19
4/29	Lab 9:	Fitting Smooth Curves using PROC MIXED in SAS
5/1	Lecture: Reading:	Multilevel Models FLW, Chapter 21