STAT 410   Applied Regression Analysis   FALL 2024

COURSE SCHEDULE

No.	Date	Topic	Chapter
1	M, Aug. 26	General and generalized linear regressions	1.1, 1.2, notes
2	W, Aug. 28	General and generalized linear regressions	1.3-1.6
	M, Sep. 2	**Labor Day – no class**	
3	W, Sep. 4	General and generalized linear regressions	1.7-1.10
4	M, Sep. 9	General and generalized linear regressions	1.7-1.10
5	W, Sep. 11	General and generalized linear regressions	1.7-1.10
6	M, Sep. 16	Box-Cox transformation	2.1
7	W, Sep. 18	Gamma regression model	2.2
8	M, Sep. 23	Binary logistic regression model	3.1
	W, Sep. 25	**Review for first midterm exam**	
	M, Sep. 30	**Homework 1 is due, first midterm exam**	
9	W, Oct. 2	Probit model, complementary log-log model	3.2, 3.3
10	M, Oct. 7	Cumulative logit model, cumulative probit model, cumulative complementary log-log model	4.1, 4.2 4.3
11	W, Oct. 9	Generalized logit model for nominal response	4.4
12	M, Oct. 14	Poisson regression model	5.1
13	W, Oct. 16	**Homework 2 is due**, Zero-truncated Poisson model	5.2
14	M, Oct. 21	Zero-inflated Poisson model, hurdle Poisson model	5.3, 5.4
15	W, Oct. 23	Negative binomial model, zero-truncated negative binomial model	6.1 6.2
16	M, Oct. 28	Zero-inflated negative binomial model, hurdle negative binomial model	6.3 6.4
	W, Oct. 30	**Review for second midterm exam**	
	M, Nov. 4	**Homework 3 is due, second midterm exam**	
17	W, Nov. 6	Beta regression model, Zero-inflated beta model, one-inflated beta model	7.1, 7.2 7.3
	M, Nov. 11	**Veterans Day – no class**	
18	W, Nov. 13	Zero-one-inflated beta regression model, random-slope and intercept model with covariance structure for error	7.4 8.2
19	M, Nov. 18	Random-slope and intercept model with covariance structure for error	8.2
20	W, Nov. 20	Generalized estimating equations	8.3
	M, Nov. 25	**Thanksgiving break – no class**	
	W, Nov. 27	**Thanksgiving break – no class**	
21	M, Dec. 2	Generalized random slope and intercept model	9.1, 9.2
	W, Dec. 4	PowerPoint presentations, session I	
	M, Dec. 9	PowerPoint presentations, session II	
	W, Dec. 11	**Homework 4 is due, review for final examination**	

The final exam will be on Monday, December 16, 2024, 10:15 AM - 12:15 PM, in LA5-169.