

STAT 495 Statistical Models in Epidemiology SPRING 2024

TENTATIVE COURSE SCHEDULE

<i>No.</i>	<i>Date</i>	<i>Topic</i>
1	Tu, Jan. 23	Introduction
2	Th, Jan. 25	Introduction, terminology, basic concepts
3	Tu, Jan. 30	Basic concepts
4	Th, Feb. 1	Basic concepts, graphs
5	Tu, Feb. 6	Graphs, exact binomial test
6	Th, Feb. 8	Exact Poisson test
7	Tu, Feb. 13	Homework 1 is due , CIs for relative risk, odds ratio, and incidence rate ratio
8	Th, Feb. 15	One-way analysis of variance, Tukey HSD test
9	Tu, Feb. 20	Wilcoxon rank-sum test, Kruskal-Wallis H-test
	Th, Feb. 22	Review for First Midterm Exam
	Tu, Feb. 27	Homework 2 is due, FIRST MIDTERM EXAM
10	Th, Feb. 29	Binary logistic regression, Poisson regression for count data
11	Tu, Mar. 5	Poisson regression for incidence rate
12	Th, Mar. 7	Mixed-effects normal response regression
13	Tu, Mar. 12	Mixed-effects logistic and Poisson regressions
14	Th, Mar. 14	Nonparametric regression for continuous response
15	Tu, Mar. 19	Nonparametric logistic and Poisson Regressions
16	Th, Mar. 21	Choropleth maps
17	Tu, Mar. 26	Homework 3 is due , compartmental epidemic models
18	Th, Mar. 28	Compartmental epidemic models
	Tu, Apr. 2	Spring Break – No Class
	Th, Apr. 4	Spring Break – No Class
19	Tu, Apr. 9	Kaplan-Meier survival curve
	Th, Apr. 11	Review for Second Midterm Exam
	Tu, Apr. 16	Homework 4 is due, SECOND MIDTERM EXAM
20	Th, Apr. 18	Log-rank test
21	Tu, Apr. 23	Cox proportional hazards model
23	Th, Apr. 25	Propensity score matching
	Tu, Apr. 30	Project presentations, Session I
	Th, May 2	Project presentations, Session II
	Tu, May 7	Project presentations, Session III
	Th, May 9	Homework 5 is due, Review for Final Exam

The Final Examination is on Tuesday, May 14, 2024, 12:30 – 2:30PM in LA5-263.