

Course Information

Instructor: John E. Kolassa

☎: 445-2692

OFFICE: Hill Center 565

HOURS: Wed 9-10pm via zoom, In-person office hours Mon 2-3 pm and Thu 1-2 pm Hill 565.

✉: kolassa@stat.rutgers.edu Please format in plain text or PDF.

Course Meeting Time: 6 – 8:50 PM SEC 202 **DATES:** Thursdays 7 Sep – 7 Dec **BUT NOT:** 23 Nov, and Tuesday 21 Nov.

Text:

REQUIRED:

1. Agresti, A. (2018), *An Introduction to Categorical Data Analysis, Third Edition*, New York: John Wiley and Sons.

RECOMMENDED: On reserve in the Hill Center Library.

2. Breslow, N.E. and Day, N.E (1980, 1987), *Statistical Methods in Cancer Research*, Oxford: Oxford University Press, **1,2**.
3. Selvin, S. (1996), *Statistical Analysis of Epidemiologic Data*, New York, NY: Oxford University Press.
4. Browne, M.W., and Arminger, G. (1995), “Mean- and Covariance-Structure Models,” *Handbook of Statistical Modeling for the Social and Behavioral Sciences* (ed. Arminger, G., Clogg, C.C., and Sobel, M.E.), New York: Plenum Press, 185-249.
5. Clogg, C.C. (1995), “Latent Class Models,” *Handbook of Statistical Modeling for the Social and Behavioral Sciences* (ed. Arminger, G., Clogg, C.C., and Sobel, M.E.), New York: Plenum Press, 311-360.

Objectives: To be able to draw inference from categorical data.

Requirements:

HOMEWORK: Homework will be assigned approximately biweekly, and will be graded. Solutions will be supplied. Students are encouraged to consult with each other and the instructor when contemplating these problems but are expected to draft their solutions themselves. Students who submit correct homework solutions without fully understanding them can expect substantially lower grades on exams. The lowest homework grade will be dropped. This provision is meant to accommodate personal emergencies, *and constitutes all such indulgence I expect to give in most cases*. Homeworks will constitute 30% of the final grade. Students are responsible for locating computing resources needed for homeworks. I expect (but do not require) that students will perform calculations using *SAS*, which runs on eden.rutgers.edu, a machine routinely accessible by students.

EXAMS: Exams will be closed-book. Except possibly in the case of a *bona fide* emergency no makeup exams will be given. Absolutely no makeup exam will be given and no alternate source of credit will be given for predictable conflicts with exam times unless such an arrangement is requested within the first two weeks of class.

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MIDTERM: in class, accounting for 30% of the final grade.

FINAL: accounting for 40% of the final grade.

CLASSROOM PARTICIPATION: will not be explicitly graded. Students are responsible for any information and assignments discussed in class.

Prerequisites: Introductory statistics 960:484, and either statistical theory (960:583,593) or a regression course (960:563,586).

Web Page: <http://www.stat.rutgers.edu/~kolassa/960-553>