

Statistics 475/920 / Biostatistics 775
Sample Survey Methods
Syllabus

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Office Hours: Tuesday, 4:45-5:45; Thursday, 4:45-5:45; by appointment.

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Class Website: www-stat.wharton.upenn.edu/~dsmall/stat475-f08.

Text: *Sampling: Design and Analysis*, Sharon H. Lohr, Duxbury Press.

Course description: This course will focus on statistical methods for the design and analysis of sample surveys. We will cover most of Chapters 1-9 of the textbook (we will cover Chapters 1-6, then cover Chapters 7 and 9 together and then Chapter 8).

Course Requirements: There will be regular homework assignments and a final project. There will not be exams. There are three groups of students in the class with different backgrounds: (1) undergraduates; (2) PhD students not from statistics or biostatistics who are interested in applying sample surveys in their work; (3) PhD students from statistics or biostatistics. The homeworks will contain some common questions but some questions that are only for a particular group. Students will be evaluated in a way that is appropriate to their background.

Computing software: We will make use of the freeware statistical computing software R in class and on homework assignments. R can be downloaded from <http://www.r-project.org/> .

Course Prerequisites: For undergraduates enrolled in Stat 475, the prerequisite is Stat 102, Stat 112 or Stat 431. For graduate students enrolled in Stat 920, the prerequisite is Stat 511, Stat 512 (Biostat 621) or Stat 541.