Methods for design and analysis of sample surveys. The toolkit of sample design features and their use in optimal design strategies. Sampling weights and variance estimation methods, including resampling methods. Brief overview of nonstatistical aspects of survey methodology such as survey administration and questionnaire design and validation (quantitative and qualitative). Additional topics: calibration estimators, variance estimation for complex surveys and estimators, nonresponse, missing data, hierarchical models, and small-area estimation.

Stat 260 meets with Stat 160 for regular lectures Tuesday/Thursday 3:00 PM-4:15 PM. The additional class meeting on Thursday 4:30 PM-5:30 PM (in SC 310) will be devoted to more advanced material.

NOTICE: first lecture (only September 3) will be in Science Center hall D. We then move to Science Center 309 A for remaining lectures.

Please click here for the detailed syllabus: syllabus19.pdf

For other content relevant to this course, please visit the Stat 160 website: https://canvas.harvard.edu/courses/58640.