

Sampling Theory SURV 440, Fall 2010

Class Time: 1:00pm – 3:30 pm, Wednesdays

Class Room: I will teach the class from Census Bureau Training Room 10 or the Bureau of Labor Statistics Conference Center Room 10 using two-way video technology.

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Reference Book: Wayne A. Fuller (2009), *Sampling Statistics*, Wiley

Class Web Site: <http://www.jpsm.umd.edu/surv440>. The lecture notes, take-home exams and their solutions will be posted on the class website. Students are asked to print a copy of the notes before coming to the class. It is the student's responsibility to check the website for additional readings, homework, and other important information.

Course Description: The purpose of the class is to provide the students with theoretical background in survey sampling. We shall cover a wide range of sample designs and estimation techniques used in practice, including simple random sampling, sampling with varying probabilities of selection, stratification, systematic sampling, cluster sampling, double sampling, stratification, single-stage and multi-stage cluster samples, ratio and regression estimators, and double sampling.

Prerequisite: STAT 401 or STAT 420 or equivalent

Grading Policy: The final course grade will be based on a composite score based on two take-home exams (25% each), one comprehensive in-class open book/notes final exam (25%), and a term paper summarizing research findings of any two papers from a list of selected papers (to be listed on the class website).

Important Dates:

Midterm Exam 1 (Take-home): Wednesday, September 29, 2010

Midterm Exam 2 (Take-home): Wednesday, November 10, 2010

Final exam (In-class): 1-3:30PM, Wednesday, December 15, 2010

Deadline for the term paper submission: 5PM, Wednesday, December 8, 2010