Sampling Theory  
SURV 440, Fall 2013

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

Class Room:  I will teach the class from Census Bureau Training Room 10.

Instructor:  Partha Lahiri  
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Class Web Site:  www.jointprogram.umd.edu/surv440.  The lecture notes, assignments, final take-home exam 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 four assignments (15% each), one comprehensive take-home final exam (20%), and a term paper involving Monte Carlo simulation (20%).

Important Dates:  
Final exam will be handed out on Wednesday, November 27, 2013 and will be collected on Wednesday, December 4, 2013.  Deadline for the term paper submission: Wednesday, December 4, 2013