

International Health and Development 2009

INHL 645: Survey measurement in the International Health, Population and Nutrition Sectors

By the end of this course students will be able to:

- (1) Synthesis of the concepts of total survey error, components of survey error, bias, precision, accuracy and optimal survey design, and apply these concepts in evaluating a survey design and/or a set of survey results;
- (2) Synthesis of the requirements of probability sampling;
- (3) Synthesis of the logic of and operational procedures for the following sampling approaches: simple random sampling, systematic random sampling, stratified sampling, and two-stage cluster sampling;
- (4) Select a sample and perform data analysis of the resultant survey data using each of these sampling approaches;
- (5) Calculate desired sample size to meet survey objectives in obtaining a single point estimate and testing significant differences between two or more point estimates;
- (6) Synthesis of the key elements of commonly-used survey protocols in the international health, population and nutrition sectors; and
- (7) Perform data analysis of a dataset obtained from a 2-stage cluster PPS design to estimate weighted point estimates, empirically-estimated standard errors and design effect