PHC 6716/ANG6930: Survey Research Methods. 3 credit hours

Description: This course provides an introduction to population surveys typical in descriptive (surveillance) and analytic epidemiologic research. The course has a strong emphasis on telephone questionnaire methods, but also includes other data collection modes and their relative advantages and disadvantages. Survey sampling, survey planning and data collection, computer interviewing and data management techniques for research surveys are emphasized. The course includes generalized methods and didactic materials as well as case studies drawn from the experiences of the course instructor and other University researchers.

Prerequisites: Students are recommended to have completed PHC 6001 and STA 6207 or PHC 6052 or the equivalent.

Course Objectives: Students will be able to:
- Understand and choose among data collection methods for surveillance and research
- Apply survey methods to real-life examples
- Understand sampling for research and the applicability of various analytic techniques depending on sampling
- Prepare data reports from surveys
- Prepare data collection plans with scheduling and financial estimates
- Apply quality assurance procedures in survey research

Course Schedule: The course will meet Wednesdays from 9:30-12:30 at the University of Florida Survey Research Center (summer C). The UFSRC is located in the Ayers Building at 720 SW 2nd Ave. Suite 156. The class will meet in the conference room.

Text/Readings:
Readings will be assigned from scientific and survey literature. These will be posted weekly at:
http://www.bebr.ufl.edu/chrism/phc6716

Grading: The grading scale for this course consists of the standard scale below:

90% - 100% = A
85% - 89.9% = B+
80% - 84.9% = B
75% - 79.9% = C+
70% - 74.9% = C
65% - 69.9% = D+
60% - 64.9% = D
Below 60% = E

Grading Methods: The assessment will include homework assignments, quizzes, an individual course paper and associated class presentation, and class participation.

Homework assignments = 10%
Individual project = 20% (Based on oral presentation)
Quizzes = 30% (Three quizzes at 10% each)
Class Survey Project = 20%
Class participation = 20% (Based on in class dialogue and summaries of articles)

Class Attendance: Class attendance is mandatory for students. Excused absences follow the criteria of the UFL Graduate Catalogue (e.g., illness, serious family emergency, military obligations, religious holidays), and should be communicated to the instructor prior to the missed class day when possible. UFL rules require attendance during the first two course sessions, and students also must attend the final two course sessions of student presentations for this class. Missing three scheduled sessions will result in a failure. Regardless of attendance, students are responsible for all material presented in class and meeting scheduled due dates for class assignments. Finally, students should read the assigned readings prior to the class meetings, and be prepared to discuss the material except for the first class session.

Homework: Students will be assigned a homework project at the end of selected classes that will be due at the beginning of the next class.

Individual Projects: Each student enrolled in PHC6716 is on a career track that will involve the collection of survey data or the use of existing survey data. Through the course of the semester we will discuss the challenges of conducting survey research in the current context. For your final project you will create a 15 minute PowerPoint presentation describing how you anticipate using survey data in your future career and how you expect to address those challenges. For example, you may intend to use existing data sets, such as BRFSS or MEPS. You should think about the challenges that the organizations responsible for collecting these data will face over the next decade. Or you might envision a career that relies on primary data collection. How do you see yourself fulfilling your data collection needs? The proposal should center on your specific dissertation topic.

Survey Project: Students will be trained to conduct telephone survey research per the protocols of the UF Survey Research Center. A portion of each class will be devoted to the development of a survey questionnaire, telephone calls to potential respondents and analysis of the data.

Policy on Make-Up Work: Students are allowed to make up work as the result of illness or other unanticipated circumstances warranting a medical excuse and resulting in the student missing a homework or project deadline, consistent with College policy. Documentation from a health care provider is required. Work missed for any other reason will receive a grade of zero.
Accommodations for Students with Disabilities: Students requiring accommodations must first register with the Dean of Students' Office. The Dean of Students' Office will provide documentation to the student who must then provide this documentation to the faculty member when requesting accommodation. The College is committed to providing reasonable accommodations to assist students in their coursework.

Structure of Class:
Each class will consist of three parts. The first will be a presentation on a fundamental aspect of the survey research process. I will present a PowerPoint on the topic for about an hour. This will be followed by student-led discussion of the assigned articles for about an hour. The remainder of each class will be devoted to the development of the telephone survey project the class will conduct throughout the semester.

Course Outline:

**July 2: Course Introduction**
- Overview of Course and syllabus
- Overview of UF Survey Research Center
- Discussion of survey project

Readings for July 9 PDF files located at [http://www.bebr.ufl.edu/chrism/phc6716](http://www.bebr.ufl.edu/chrism/phc6716)

- Fowler Chapter 1
- Don A. Dillman, Glenn Phelps, Robert Tortora, Karen Swift, Julie Kohrell, Jodi Berck, Benjamin L. Messer (2009) Response rate and measurement differences in mixed-mode surveys using mail, telephone, interactive voice response (IVR) and the Internet. *Social Science Research* 38:1–18

**July 9: Survey Modes – Telephone, Mail, Web, Face-to-Face**
- Defining the population
- Units of analysis
- Survey Modes (Telephone, Mail, Web, Face-to-face)
- Random Digit versus Listed Samples for telephone surveys
- Options from Sample Vendors (GENESYS and Survey Sampling)
- Case Study – Medicaid Reform and Web of Knowledge

Readings for July 11 PDF files located at [http://www.bebr.ufl.edu/chrism/phc6716](http://www.bebr.ufl.edu/chrism/phc6716)

- Fowler Chapters 4-5
- Kumar Rao, Olена Kaminska, Allan L. Mccutcheon (2010) Recruiting Probability Samples for a Multi-Mode Research Panel With Internet And Mail Components Public Opinion Quarterly, 74 (1) 68–84

**July 11: Survey Modes – New Challenges**

- Cell phone problem
- Mixed modes
- Address based sampling
- Internet Panels
- Mobile Phone Survey Designs
- Case Study – Child Trust

Readings for July 16 PDF files located at [http://www.bebr.ufl.edu/chrism/phc6716](http://www.bebr.ufl.edu/chrism/phc6716)

- Fowler Chapter 2-3

**July 16: Margin of Error, Sample Size and Sample Design**

- Calculation of margin of error
- Power analyses for determining sample size
- Predicting and planning for attrition from sampling frames, fixed lists
- Respondent selection
- Case Study – FHIS and Tallahassee Project
• Homework – Calculate margins of error

Readings for July 18 PDF files located at http://www.bebr.ufl.edu/chrism/phc6716

• Scott Keeter; Carolyn Miller; Andrew Kohut; Robert M Groves; Stanley Presser (2000) "Consequences of reducing nonresponse in a national telephone survey" Public Opinion Quarterly. 64: 125-148

**July 18: Response rates, Disposition Coding**

• What is a response rate and what should it be used for?
• Overview of AAPOR and CASRO disposition coding
• Review of different ways to calculate response rates
• Issues in improving response and quality assurance
• Case study – BRFSS Cell and CCI
• Homework 4 – Calculate response rates

Readings for July 23 PDF files located at http://www.bebr.ufl.edu/chrism/phc6716

• Fowler Chapter 6-7
July 23: Questionnaire Design, Question Wording and Incentives

- Quiz 1 – Margin of error
- Categorical (nominal) questions
- Ordinal questions
- Interval questions
- Open-ended questions
- Order Effects
- Case study – Web of Knowledge versus Elder Affairs Survey

Readings for July 25 PDF files located at http://www.bebr.ufl.edu/chrism/phc6716

- Fowler Chapters 8-10

July 25: Existing health survey data sets and Incentives

- Quiz 2 – Response rates
- Widely used Epidemiology modules (e.g. CAHPS)
- BRFSS, NHIS, NIS, ADD HEALTH
- Estimating Cost
- Things to include in a Contract
- Incentives

Readings for July 30 PDF files located at http://www.bebr.ufl.edu/chrism/phc6716

- Fowler Chapter 11-13

**July 30: Analyzing Survey Data**
- Quiz 3 – Reading crosstabs
- Analyzing Data
- What is Weighting and How to Do It
- Stratified and quota samples
- Imputation for Missing Values
- Case Study -- Hurricane

Readings for August 1 PDF files located at http://www.bebr.ufl.edu/chrism/phc6716

- Ware JE, Gandek B (1998) Overview of the SF-36 Health Survey and the International Quality of Life Assessment (IQOLA) Project. *Journal of Clinical Epidemiology* 51(11) 903-912
- DHSIII Sampling Manual
- H Russell Bernard, Tim Hallett, Alexandrina Iovita, Eugene C Johnsen, Rob Lyerla, Christopher McCarty, Mary Mahy, Matthew J Salganik, Tetiana Saliuk, Otilia


August 1: Doing Surveys Internationally, hard-to-count populations

- International surveys (DHS),
- Surveys in developing countries
- Capture-Recapture
- Multiplier Method
- Respondent Driven Sampling
- Network Scale-up

Readings for August 6 PDF files located at [http://www.bebr.ufl.edu/chrism/phc6716](http://www.bebr.ufl.edu/chrism/phc6716)

- Peter Marsden (1990) Network data and measurement Annual Review of Sociology 16:435-463

August 6: Social Network Analysis and the IRB

- IRB
- Introduction to social networks
- Whole networks versus personal networks
- One-mode versus two-mode

August 8: Student Presentations