FCHD 7034: Extant and Secondary Data Analysis
Fall 2016
Thursday's, 3:30 – 6:00 PM, Gunshed 101

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Course Description:

Official Course Description: The following skills will be covered: locate and download secondary data sets, learn to use codebooks to identify variables, select subpopulations of participants from extant data sets, and learning how to select variables from extant data.

Course Objectives: Employing a workshop approach to secondary data analysis, this course will provide instruction on how to identify appropriate archival data sources, formulate research questions and hypotheses, manipulate and analyze data, and write concise and effective summaries of research methodologies and results.

Prerequisites:

Successful completion of EDUC 6600 and FCHD 6032

Course Learning Goals, Instructional Activities, and Assessment:

Learning Objective	*Instructional Activities*	*Assessment*
Identify and locate national data sets for secondary data analysis	Lecture, course readings, and assignments	Empirical Paper Reviews, Presentations, and Papers
Formulate appropriate research questions given available data	Lecture, course readings, and assignments	Empirical Paper Reviews, Presentations, and Papers
Apply appropriate data management techniques and evaluate psychometric properties of extant data	Lecture, course readings, and assignments	Presentations and Papers

Select the appropriate methods of data analysis, given multivariate data and study objectives	Lecture, course readings, and assignments	Presentations and Papers
Employ statistical software to carry out statistical analyses	Lecture, course readings, and assignments	Presentations and Papers
Write concise and effective summaries of methods and results using APA style	Lecture, course readings, and assignments	Papers

Course Materials:

Required Texts:

Trzesniewski, K. H., Donnellan, M. B., & Lucas, R. E. (Eds.). (2010). *Secondary data analysis: An introduction for psychologists.* Washington, DC: American Psychological Association.

American Psychological Association (2009). *Publication Manual of the American Psychological Association* (6th Ed.). Washington D.C.: American Psychological Association.

Supplemental Reading:

Articles from major human development and family science journals and other sources will supplement required reading from the text occasionally. These readings will be announced in advance and will be made available on the course website.

Website Resource:

Example Tables for publication: http://www.ncfr.org/journals/marriage_family/submit/tables.asp

Course Policies:

Attendance: Given the workshop format of the class, students are expected to attend every class session. Excused absences will be handled on a case by case basis. Each class session will include a lecture component as well as a hands on application of the instructional concepts. As such, students are encouraged to bring laptop computers (if available). Slides for each lecture will be posted on the course website hosted on Canvas. Students are encouraged to print out the PowerPoint slides prior to each class session. The slides provide an overview of what we will discuss in each class and students are strongly encouraged to take notes in addition to what is provided on the slides. Students are expected to be engaged members of the class, as such class participation will contribute towards final grades.

Academic Integrity: Academic integrity is the pursuit of scholarly activity in an open, honest, and responsible manner. Academic integrity is a basic guiding principle for all academic activity

at Utah State University, and all members of the University community are expected to act in accordance with this principle. Consistent with this expectation, the University's Honor Code states that all students should act with personal integrity, respect other students' dignity, rights and property, and help create and maintain an environment in which all can succeed through the fruits of their efforts. Academic integrity includes a commitment not to engage in or tolerate acts of falsification, misrepresentation or deception. Such acts of dishonesty violate the fundamental ethical principles of the University community and compromise the worth of work completed by others. Violation of academic integrity includes, but is not limited to, all of the following: Cheating on exams or homework, having unauthorized possession of exams, and submitting the work of another person as your own (plagiarism).

Violating academic integrity is considered a serious offense by the university and is treated accordingly. Specifically, any suspected violation of academic integrity in FCHD 7034 will be reviewed by the instructor and FCHD Department Head. Following this review, if the action is deemed a violation, it will be sent to the Office of the Dean of Students. Because graduate students are held to the highest moral and ethical standards, any violation forwarded to the Office of the Dean of Students will carry with it a recommendation for expulsion from Utah State University.

Course Assignments:

Empirical Paper Review: Each student will be required to identify and review a paper that has been published in a peer reviewed journal that used a publicly available data source (ideally, the same data source the student will use for their applied project). The review will include brief discussion of the research question and findings, but primarily focus on the strengths and weaknesses of the data source as well as key concepts relevant to secondary data analysis (e.g., variable selection, scale construction, missing data). The review will be worth 25 points.

Applied Research Project: Over the course of the semester, each student will complete an applied research project. Overall, the project requires that students select a publicly available data source, draft appropriate research questions/hypotheses, apply appropriate research methods and statistical analyses, interpret the results, and communicate the findings to an academic audience. There will be presentations and/or papers associated with each section of the project.

Presentations: Each student will make two presentations over the course of the semester.
- *Topic Selection*: Prior to finalizing your applied research topic, you will present your research question(s) and potential data source(s) to class. The class will then provide feedback on how you may "best" approach your question(s). The presentation will be brief (approximately 5 minutes) and the format is at your discretion (e.g., PowerPoint, handout, white board). The topic selection presentation is worth 25 points.
- *Final Presentation*: The final presentation will resemble a conference paper presentation (approximately 12-15 minutes in length) and include a comprehensive review of the entire project. This presentation is designed to help you practice communicating your findings to an academic audience. As such, you will discuss why your project is important (i.e., introduction), how you addressed your research questions (i.e., methods),

what you found (i.e., results), and the implications of those findings (i.e., discussion). The final presentation is worth 50 points.

Papers:

- *Topic Selection/Introduction*: Following the topic selection presentation, you will submit a document that outlines your research question(s), hypotheses, and secondary data source. The paper should resemble an abbreviated introduction section of a manuscript, including a brief rationale for the project. You will also need to provide a description of the data set you chose to use as well as a justification for the use of that data set. The topic selection paper is worth 25 points.
- *Codebooks:* You will develop appropriately detailed codebooks for all of the variables used in your project. Codebooks are worth 25 points.
- *Methods and Results Draft*: An APA style draft of your methods and results sections will be turned in a feedback will be provided. The draft section will be worth 25 points.
- *Final Paper*: The final paper will be an APA style (including title page, abstract, introduction, method, results, discussion, references, tables and figures) manuscript that is suitable for publication in quality peer-reviewed journal. This paper should meet the standards for, at minimum, a brief report (i.e., 15-20 pages). The final paper is worth 50 points.

Due Dates: Due dates for each assignment are posted on the course schedule. Unless otherwise noted or negotiated, assignments are due at the beginning of the assigned class. Assignments turned in late will be penalized one letter grade for each day since the due date.

Course Grades:

There will be a total of 250 points possible in this course:

Topic Selection Presentation: 25 points
Topic Selection Paper: 25 points
Codebooks: 25 points
Empirical Paper Review: 25 points
Methods and Results Draft: 25 points
Final Presentation: 50 points
Final Paper: 50 points
Participation: 25 points

Final Grades will be assigned on a point system as follows:
A = 225-250
B = 200-224
C = 175-199
D = 150-174
F = < 149

University Policies:

Accommodation for Disabilities: Students with ADA-documented physical, sensory, emotional or medical impairments may be eligible for reasonable accommodations. Veterans may also be eligible for services. All accommodations are coordinated through the Disability Resource Center (DRC) in Room 101 of the University Inn, (435)797-2444. Please contact the DRC as early in the semester as possible. Alternate format materials (Braille, large print, digital, or audio) are available with advance notice.

Honor Code Policy: As stated in The Student Code, "Each student has the right and duty to pursue his or her academic experience free of dishonesty. The Honor System is designed to re-enforce the higher level of conduct expected and required of all Utah State University students." Upon admission to the university, you agreed to abide by this Honor Code by signing the Honor Pledge, which reads: "I pledge, on my honor, to conduct myself with the foremost level of academic integrity." Complete academic honesty is expected in this course. Cheating on quizzes or exams or plagiarism on written assignments will result in a failing grade and may result in further action according to University policy.

Grievance Process: Students who feel they have been unfairly treated may file a grievance through the channels and procedures described in the Student Code: See the USU Catalog at the following link:
http://catalog.usu.edu/content.php?catoid=6&navoid=1080&hl=%22grievance%22&returnto=search

Communications Via Email: Email is an official form of communication at USU. Any communication to you about this course will be to the email address you have listed in ACCESS as your preferred address. You are responsible for any information conveyed to you at that email address. To make sure that the university is using the email account you prefer, do the following:
- At the USU website, click on the link "MyUSU" at the top right of the page
- Under "Access" click on the link "Login to Access (Banner)"
- Log in using your A number and Password
- Click on "Personal Information"
- Click on "Update E-mail Addresses"
- Follow the short instructions to update your preferred email address

It is your responsibility to check your email account regularly.

Tentative Course Schedule:

Date	Topic	Readings	Assignments
9/1	Introduction & Foundations of Secondary Data Analysis		
9/8	Finding Data	Chapter 1	
9/15	Data Management and Codebooks	Chapter 2, McCartney, Burchinal, & Bub (2006) pp. 9-23	
9/22	Data Management and Codebooks	Chapter 2, McCartney, Burchinal, & Bub (2006) pp. 9-23	Topic Selection Presentations
9/29	Working with variables	Chapter 3 McCartney, Burchinal, & Bub (2006) pp. 24-41	
10/6	Working with variables	Chapter 3 McCartney, Burchinal, & Bub (2006) pp. 24-41	Topic Selection Papers Due
10/13	Missing Data	Chapter 5 McCartney, Burchinal, & Bub (2006) pp. 42-64	
10/20	No Class – University is on Thursday schedule		Empirical Paper Review Due
10/27	Work Day		Codebooks Due
11/3	Missing Data	Chapter 5 McCartney, Burchinal, & Bub (2006) pp. 42-64	
11/10	Complex Sampling Designs	Chapter 4	Methods and Results Draft Due
11/17	Issues in Secondary Data		
11/24	No Class - Thanksgiving Holiday		
12/1	Issues in Secondary Data		
12/8	Applied Research Project Presentations		Final Presentations and Final Papers Due