

Data Analysis: Mixed Methods Approach

Course Syllabus

LAS F693-xxx (CRN:xxxxx), 3 credits

Select Mondays 6pm – 9pm

Spring 2012

Instructor Information

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Course Description

Data analysis techniques for mixed methods, quantitative and qualitative methods. Investigations into qualitative coding and developing thematic strands, review of statistical analyses such as ANOVA, correlations, cross-tabulations, and analysis of survey data within the context of social science research. Introductions to analyzing mixed methods data based on convergent parallel, explanatory sequential, exploratory sequential, embedded, transformative and multiphase designs. Includes use of PASW (SPSS) and Atlas TI software applications. Limit of ten graduate students per section.

Textbooks

Mixed Methods

- Creswell, John W. (2011). *Designing and Conducting Mixed Methods Research*. 2nd edition. SAGE Publications.
- Glatthorn, Allan A. and Joyner, Randy L. (2005). *Writing the Winning Thesis or Dissertation: A Step-by-Step Guide*. 2nd edition. Corwin Press.

Survey Data Analysis

- Fink, Arlene G. (2003). *How to Manage, Analyze, and Interpret Survey Data*. SAGE Publications.
- Rea, Louis M. and Richard, A. Parker. (2005). *Designing and Conducting Survey Research: A Comprehensive Guide*, third edition. John Wiley & Sons, Inc.
- De Vaus, David. (2002). *Analyzing Social Science Data: 50 Key Problems in Data Analysis*. SAGE Publications. (optional)

Qualitative Data Analysis

- Kvale, S. and S. Brinkmann. (2009). *InterViews: Learning the craft of qualitative research interviewing*. 2nd edition. SAGE Publications.
- Feldman, Martha S. (1995). *Strategies for Interpreting Qualitative Data (Qualitative Research Methods)*. SAGE Publications.
- Lofland, John; Snow, David A.; Anderson, Leon; Lofland, Lyn H. (2005). *Analyzing Social Settings: A Guide to Qualitative Observation and Analysis*. 4th edition. Wadsworth Publishing. (optional)

Quantitative Data Analysis

- Trochim, William M. The Research Methods Knowledge Base, 2nd Edition. Internet WWW page, at URL: <<http://www.socialresearchmethods.net/kb/analysis.php>> (version current as of October 20, 2006).
- Trochim, William M. The Research Methods Knowledge Base, 2nd Edition. Internet WWW page, at URL: <<http://www.socialresearchmethods.net/kb/writeup.php>> (version current as of October 20, 2006).
- Muijs, Daniel. (2004). Doing Quantitative Research in Education: with SPSS. SAGE Publications.
- Gliner, Jeffery, A. and George A. Morgan. (2000). Research methods in applied settings: an integrated approach to design and analysis. Lawrence Erlbaum Associates, Inc. (*optional*)

Course Goals

To provide PhD cohort students options of data analysis for both qualitative and quantitative as well as for mixed methods, analysis applications with software packages, and guidance on writing and presenting mixed methods results within mixed methodology research designs.

Student Learning Outcomes

Students will

- determine the appropriate data analysis technique for their data and research design
- complete the data analysis for their dissertations
- conduct data analysis using Atlas TI and PASW (SPSS) software
- critique educational research results (quantitative and qualitative) in scientific research and the popular press

Instructional Methods

This course will be conducted through regularly scheduled sessions as listed on the calendar below. We will use the Alaska IPHD Ning for communication purposes. Cohorts will be expected to meet and work together outside of contact time. Face to face sessions may be scheduled if warranted or requested given the availability of meeting times and locations.

Grading Policy

The following evaluation of student performance will be employed:

A: 90.0-100% B: 80.0-89.9% C: 70.0-79.9% D: 60.0 – 69.9% F: below 60.0%

<i>Deliverables</i>	<i>Points</i>
Project 1: Draft Data Analysis Plan	20
Project 2: Results of Preliminary Data Analysis	20
Project 3: Critique of Related Analyses	20
Final: Final Data Analysis Plan	40

<i>Total</i>	100
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Projects

Projects provide an opportunity to connect the knowledge learned in class to real world application and analysis. This will be an opportunity to practice before applying the knowledge to your own dissertation in order to hopefully eliminate having to restructure your own work. Detailed descriptions of each project will be presented during course discussion on the topic and with reasonable time before the due date.

Draft Analysis Plan

Students will work towards completing a draft version of the Data Analysis Plan. All projects will provide support in learning the necessary components needed for the student to complete the draft plan. Thus the plan will serve as a final for the class. Students will have several opportunities to submit their draft for comments, with the final evaluation occurring at the end of the course in May 2012.

Prerequisites

Acceptance into the PhD Cohort Model or by permission. Expect students will be functional and competent in Word, Excel and PowerPoint type software.

Course Policies

No points are given for attendance towards determining students' grades but given the nature of this course, which focuses on discussion and learning from peers, attendance is encouraged during each E-Live session. Recognizing that life can sometimes get in the way of academics, each session will be recorded providing an opportunity for those who miss class to at least hear what was discussed. Plagiarism is a serious offense and will not be tolerated in dissertation work. Further discussion on this matter can be found at: <http://www.uaf.edu/library/instruction/handouts/Plagiarism.html>.

Support Services

Student support services are available in computing through the Help Desk, mathematics through the Math Lab, and writing through the Writing Lab. Please request if you would like further information on any of these services.

UAF Disability Services

We will work with the Office of Disabilities Services (203 WHIT, 474-7043), to provide accommodations for students with disabilities. If you have a disability and require special assistance, please contact the instructor as soon as possible. Students with disabilities must provide a written statement indicating any special requirements that will be necessary as early in the semester as possible.

Calendar

<i>Week of</i>	<i>Topics for Class Discussion</i>	<i>Readings Required - to complete before class discussion</i>
Jan. 23, 2012	Analysis of Survey Data (<i>Project 1 assigned</i>)	Fink, Chapters 1-4
Jan. 30, 2012	Analysis of Qualitative Data	Kvale & Brinkmann, Chapters 11-15
Feb. 6, 2012	Analysis of Quantitative Data	Muijs, Chapters 6-10
<i>Feb. 13, 2012</i>	<i>Project 1 Due</i>	<i>Draft Data Analysis Plan</i>
Feb. 13, 2012	Analysis of Survey Data (cont'd) (<i>Project 2 assigned</i>)	Rea & Parker, Chapters 10-12
Feb. 20, 2012	Analysis of Qualitative Data (cont'd)	Feldman, Chapters 1-6
Feb. 27, 2012	Analysis of Quantitative Data (cont'd)	Trochim, Analysis Link http://www.socialresearchmethods.net/kb/analysis.php
Mar. 5, 2012	Analysis of Mixed Methods	Creswell (2011), Chapters 7-8, Appendix A-F
<i>Mar. 19- Apr. 2, 2012</i>	<i>Project 2 Due</i>	<i>Present Preliminary Analysis Results</i>
Mar.19, 2012	Troubleshooting Survey Analysis	Presentations and discussions
Mar. 26, 2012	Troubleshooting Qualitative Analysis	Presentations and discussions
Apr. 2, 2011	Troubleshooting Quantitative Analysis	Presentations and discussions
Apr. 9, 2011	Pulling it all Together (<i>Project 3 assigned</i>)	Glatthorn, Chapters 16-22
Apr. 16, 2012	Reporting Survey Results	Rea & Parker, Chapter 13
<i>Apr. 23, 2012</i>	<i>Project 3 Due</i>	<i>Critique of Related Analyses</i>
Apr. 23, 2012	Reporting Qualitative Results	Kvale & Brinkmann, Chapter 16
May 7, 2012	Reporting Quantitative Results	Trochim, Write Up Link http://www.socialresearchmethods.net/kb/writeup.php
<i>May 7, 2012</i>	<i>Final Exam Due</i>	<i>Data Analysis Plan</i>

Note: this calendar is subject to modification.