

Note:

Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.

COURSE SYLLABUS

EDUC 915

QUANTITATIVE ANALYSIS

COURSE DESCRIPTION

This course addresses the skills and knowledge necessary for completion of a quantitative dissertation, including research design, analysis, and associated statistical procedures. This course also addresses sampling, assumptions, data interpretation, validity, reliability, and instrumentation.

RATIONALE

The doctoral dissertation is the final academic requirement for the PhD. This course provides PhD candidates with specific knowledge and skills needed to write a viable quantitative doctoral dissertation including formal writing, synthesizing information, planning and conducting research, connecting chapters in the dissertation, reporting and interpreting data, drawing conclusions, finding links and discussing findings.

I. PREREQUISITE

For information regarding prerequisites for this course, please refer to the [Academic Course Catalog](#).

II. REQUIRED RESOURCE PURCHASE

Click on the following link to view the required resource(s) for the term in which you are registered: <http://bookstore.mbsdirect.net/liberty.htm>

and Statistical Guides. This membership can be purchased for 6 months or 1 year.

III. ADDITIONAL MATERIALS FOR LEARNING

- A. Computer with basic audio/video output equipment
- B. Internet access (broadband recommended)
- C. Blackboard [recommended browsers](#)
- D. Microsoft Office

IV. MEASURABLE LEARNING OUTCOMES

Upon successful completion of this course, the candidate will be able to:

- A. Explain how descriptive, causal-comparative, correlational, and experimental designs differ in their power to reveal causal relationships.
- B. Identify and communicate appropriateness, validity, and reliability of an instrument used to collect data.

- C. Refine null hypotheses and research questions related to a given topic.
- D. Identify and explain the appropriate parametric or non-parametric statistical procedure(s) to solve a research problem.
- E. Understand the assumptions, notations, and interpretations associated with the various statistical procedures studied.
- F. Identify and communicate participants, setting, and procedures for a study.
- G. Calculate, interpret, and communicate results of parametric and non-parametric statistical analyses.
- H. Develop a viable methods chapter for a doctoral dissertation.
- I. Identify the steps in the dissertation process for Liberty University's PhD in Higher Education Administration.
- J. Make and defend connections between prior research and current findings, taking into account a biblical worldview.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

- A. Textbook readings and presentations
- B. Course Requirements Checklist
After reading the Course Syllabus and [Student Expectations](#), the candidate will complete the related checklist found in Module/Week 1.
- C. Discussion Board Forums (4)
The candidate is required to create 4 threads in response to the provided prompt for each forum. Each thread must be 500–600, with the exception of Discussion Board Forum 2 which can be 500–700 words, and demonstrate course-related knowledge. In addition to the thread, the candidate is required to reply to the threads of at least 2 classmates. Each reply must be 250–350 words. (MLO: A, B, C, D, F, G, H, J)
- D. Dissertation Critiques (2)
The candidate will read and critically analyze a dissertation using the template provided in Blackboard. The critique must follow current APA format and match the formatting guidelines provided in Blackboard. (MLO: A–I)
- E. Data Analysis Scenarios (4)
Using data analysis scenarios provided, the candidate will determine the analysis needed and analyze the data individually, then work with a group to complete a template giving the appropriate research design, final question(s)/hypothesis(es), purpose, and results. (MLO: D, E, G)

F. Chapter Three Project

1. Outline

The candidate will prepare a proposed outline of his or her methods chapter for formative instructor feedback prior to submitting Chapter Three. The outline must be 2–3 pages. (MLO: A–I)

2. Mock Defense

The candidate will prepare a presentation outlining his or her Chapter Three and participate in a mock proposal defense with peers via an e-conferencing system of choice. The presentation must be accompanied by a PowerPoint or similar presentation media and include all sections of the Chapter Three outline (MLO: A–I)

3. Final Chapter

The candidate will complete a fully drafted dissertation Chapter Three. This chapter must be developed in accord with the Dissertation Handbook Quantitative Dissertation Template (Appendix D) and current APA format. The chapter will be approximately 10 pages, excluding the title page, abstract page, references, and appendices (MLO: H)

G. Quizzes (2)

The candidate will complete 2 quizzes during the course. Each quiz will cover the Reading & Study material for the assigned modules/weeks. Each quiz will be open-book/open-notes, contain 20–25 multiple-choice and true/false questions, and have a 45-minute time limit. (MLO: A–I)

VI. COURSE GRADING AND POLICIES

A. Points

Course Requirements Checklist	10
Discussion Board Forums (4 at 50 pts ea)	200
Dissertation Critiques (2 at 75 pts ea)	150
Data Analysis Scenarios (2 at 50 pts ea, 2 at 25 pts ea)	150
Chapter Three Project	
Outline	100
Mock Defense	100
Final Chapter	200
Quizzes (2 at 50 pts)	100
Total	1010

B. Scale

A = 960–1010 A- = 940–959 B+ = 920–939 B = 900–919 B- = 880–899
 C+ = 860–879 C = 840–859 C- = 820–839 D+ = 800–819 D = 780–799
 D- = 760–779 F = 0–759

C. Disability Assistance

Candidates with a documented disability may contact Liberty University Online's Office of Disability Accommodation Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations. Further information can be found at www.liberty.edu/disabilitysupport.

If you have a complaint related to disability discrimination or an accommodation that was not provided, you may contact ODAS or the Office of Equity and Compliance by phone at (434) 592-4999 or by email at equityandcompliance@liberty.edu. Click to see a full copy of Liberty's [Discrimination, Harassment, and Sexual Misconduct Policy](#) or the [Student Disability Grievance Policy and Procedures](#).

COURSE SCHEDULE

EDUC 915

Textbooks: Rovai et al., *Social Science Research Design and Statistics* (2012).

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	Rovai et al.: chs. 1, 3 3 presentations	Course Requirements Checklist Class Introductions Advising Guide Acknowledgement DB Forum 1	10 0 0 50
2	Rovai et al.: chs. 4, 6 1 presentation	DB Forum 2 Quiz 1	50 50
3	Rovai et al.: chs. 7–8 2 presentations Assigned Dissertation	DB Forum 3 Dissertation Critique 1	50 75
4	Rovai et al.: ch. 9 Supplemental Readings 1 presentation	DB Forum 4 Data Analysis Scenario 1 – Individual Data Analysis Scenario 1 – Group	50 50 25
5	Rovai et al.: ch. 10 Supplemental Readings 1 presentation	Data Analysis Scenario 2 – Individual Data Analysis Scenario 2 – Group CTP – Outline	50 25 100
6	1 presentation Assigned Dissertation	Dissertation Critique 2 CTP – Mock Defense	75 100
7	Rovai et al.: ch. 11 1 presentation	CTP – Final Chapter	200
8	None	Quiz 2	50
TOTAL			1010

DB = Discussion Board

CTP = Chapter Three Project

NOTE: Each course module/week begins on Monday morning at 12:00 a.m. (ET) and ends on Sunday night at 11:59 p.m. (ET). The final module/week ends at 11:59 p.m. (ET) on **Friday**.