

AHLT 4806 - Research Methods

Fall 2026 Syllabus, Section A01, CRN 40653,

Credit hours: 3

Instructor

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Public Instructor Information

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Adjunct Graduate Faculty-Respiratory Care and Health Professions; Youngstown State University. Former Administrator and Voting Scientific Board Member: Office of the Institutional Review Board (IRB) Cleveland Clinic Health System, Cleveland, Ohio.

Education: MBA/HCM, University of Phoenix, Arizona, Summa cum laude (2006), BA, Ursuline College, Pepper Pike, Ohio (1988), AS, Cuyahoga Community College (1977).

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Preferred Contact Method: The preferred and primary communication format for this course is through the course portal using the Blackboard Course Messages system tool. This approach helps to maintain all course-related communications in one centralized location. Please note that these communications are both private and secure. In the event Blackboard encounters a technical difficulty, please use my YSU email as the secondary method for course-related communications.

Course Description

4806. Research Methods. Measurement and interpretation of health data and their application in the research process. Research design considerations, data collection methods, and data analysis of health care research projects. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Conducting Research (2nd Edition)	Lawrence T. Orcher	978-1936523191

This textbook seeks to prepare students to conduct an empirical research study using both quantitative and qualitative research methods. The content emphasis truly on providing a practical knowledge base regarding how to conduct a research project. Each chapter guides students through each step of the structured research process, from selecting a research topic and study participants to analyzing data and presenting research findings. The primary focus is on providing practical guidance for successfully executing a research proposal or project.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.



Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
10/19	Orcher Text Chapter #1: Selecting Tentative Topics for Empirical Research Text Chapter #2: Locating Literature and Refining a Research Topic Text Chapter #3: Preparing a Literature Review Text Chapter #4: Citing References in APA and ASA Styles Video #1: APA Reference Formatting Video #2: Selecting a Research Design 1979 Belmont Report Instructor micro-lecture: Ethical Principles in Research	Ethical Principles and Concepts in Research Literature Reviews for Research: Critique and Analysis APA Reference Formatting	Completion of the CITI Human Research Training Program Modules Review designated instructor micro-lecture notes and topic related video presentations Written Assignment: The Belmont Report Discussion Forum: Role of the FDA
10/26	Text Chapter #5: Writing Research Hypothesis, Hypotheses, Purposes and Questions Text Chapter# 6: Selecting a Research Approach Instructor micro-lecture #1: How to Conduct a Literature Search For a Meta-analysis Instructor micro-lecture #2: Writing Research Hypotheses, Purposes & Questions Instructor micro-lecture #3: Research Designs and Methodology Video Presentation #1: Introduction to Meta-analysis	Research Hypotheses, Purpose Statements, and Research Questions Research Designs and Methodology Introduction to Meta-analysis research designs	Written Assignment #1: Meta-analysis: Topic Selection and Background Rationale Written Assignment #2: "Research Hypotheses, Null Hypothesis, Purpose Statement and Study Variables (independent and dependent) Review designated instructor micro-lecture notes and video presentations Discussion Forum: Common Research Designs and Methodology Exam #1: Chapter #1-Chapter #5 and the Belmont Report
11/2	Text Chapter #7: Looking Ahead to Participant Selection Text Chapter #8: Looking Ahead to Measurement Text Chapter #9: Looking Ahead to Data Analysis for Quantitative Research Instructor micro-lecture #1: Validity, Reliability and Credibility in Research Instructor micro-lecture #2: Sampling Procedures Video Presentation #1: Bias, Reliability, Validity and Credibility Video Presentation #2: Sampling Strategies	Validity, Reliability and Credibility in Research Sampling Strategies and Procedures Participant Selection in Research	Review designated instructor micro-lecture notes and video presentations Discussion Forum #1: Validity, Reliability and Credibility in Research Discussion Forum #2-Sampling Techniques in Research
11/9	Text Chapter #10: Looking Ahead to Data Analysis for Qualitative Research Chapter #11: Preparing a Preliminary Research Proposal Instructor micro-lecture #1: Preparing a Preliminary Research Proposal Instructor micro-lecture #2: Qualitative Data Collection and Analysis Instructor micro-lecture #3: Research Proposal Methodologies Video Presentation #1: How to Critique a Research	Qualitative Data Collection and Analysis Research Proposal Cocepts and Methodologies Preparing a Preliminary Research Proposal	Discussion Forum: Introduction to Data Analysis in Qualitative Research Review designated instructor micro-lecture notes and video presentations PowerPoint Slide Presentation: Qualitative Research Designs Exam #2: Chapter's #6, #7, #8, #9 and #10



11/16	Text Chapter #12: Participant Selection in Quantitative Research Text Chapter #13: Participant Selection in Qualitative Research Text Chapter #14: Measurement in Quantitative Research Instructor micro-lecture #1: Participant Selection in Quantitative and Qualitative Research Instructor micro-lecture #2: Sampling Techniques and Participant Selection in Quantitative Research Instructor micro-lecture #3: Understanding the Measurement of P-Values in Research Video Presentation #1: Quantitative and Qualitative Research Video #2: P-values Explained	Participant Selection in Quantitative Research Participant Selection in Qualitative Research Sampling Techniques and Participant Selection in Quantitative Research Measurement of P-Values in Research	Review designated instructor micro-lecture notes and video presentations Written Assignment: Sampling Methods Discussion Forum: Statistical Versus Clinical Significance
11/23	Text Chapter #15: Writing Objective Measures Text Chapter #16: Measurement in Qualitative Research Text Chapter #17: Descriptive Statistics for Quantitative and Qualitative Research Instructor micro-lecture #1: Developing Clear and Concise Research Objectives and Research Designs Video Presentation #1: Sampling Methods: Simple Random, Stratified, Cluster, Systematic, Self Selection, and Convenience Video Presentation #2: Writing Clear and Concise Research Objectives	Descriptive Statistics for Quantitative and Qualitative Research Developing Objective Measures and Outcomes Sampling Methods: Simple Random, Stratified, Cluster, Systematic, Self Selection, and Convenience	Review designated instructor micro-lecture notes and video presentations Written Assignment #1: Descriptive Statistics in Both Qualitative and Quantitative Research Designs Written Assignment #2: "Meta-Analysis Final Paper." Exam #3: Chapters #11, #12, #13, and Chapter #14 Discussion Forum: Understanding Valid Research Objectives and Measures
11/30	Chapter #18: Correlational Statistics for Quantitative Research Chapter #19: Inferential Statistics for Quantitative Research Chapter #20: A Closer Look at Data Analysis in Qualitative Research Instructor micro-lecture #1: The Use of Correlation Analysis in Research Video #1: Correlation Analysis Video #2: Quantitative Data Analysis Video #3: Inferential Statistics	Inferential Statistics for Quantitative Research Correlational Statistics for Quantitative Research Quantitative Data Analysis	Review Instructor micro-lecture notes and video presentations Discussion Forum: Data Analysis in Qualitative and Quantitative Research Designs using Correlational and Inferential Statistics Written Assignment: Correlational and Inferential Statistics in Quantitative Research Exam #4: Chapter's #16, #17, #19, and Chapter #20

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.