



**Advanced Research Design and Methods
NURS 6337
Spring 2023**

Scheduled Class Days and Times: Online

Instructor's Name: Barbara S. McAlister Section .060

Office: Virtual

Phone: (903) 566-7320

Email: bmcalister@uttyler.edu*

Office Hours: Virtual: Tuesdays from 4-7 PM CST **by appointment** for phone call or video conference. Additional days and times may be arranged upon request. Please email faculty to make arrangements/obtain Zoom link.

*Best way to contact me

Course Description: Theoretical, methodological, and procedural aspects of data generation and measurement are presented. Measurement theory, concept operationalization, and instrument development and testing for both qualitative and quantitative methods are explored.

Prerequisites: NURS 6330 & NURS 6333

Student Learning Outcomes:

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

1. Critically analyze published research and research proposals/grant applications for research rigor.
2. Analyze research instruments for reliability and validity.
3. Develop a quantitative, qualitative, or mixed methods research proposal to study a substantive transcultural health problem.

Required Textbooks and Readings:

Creswell, J. W. & Creswell, J.D. (2018). *Research design: Qualitative, quantitative, and mixed methods approaches* (5thed.) Thousand Oaks, CA: Sage Publications, Inc. ISBN 978-1-5063-8670-6.

Portney, L.G. (2020). *Foundations of clinical research: Applications to evidence-based practice*, 4th edition. Philadelphia, PA: F. A. Davis Company. ISBN 978-0803661134.

American Psychological Association. (2019). *Publication manual of the American Psychological Association*. (7th ed.). Washington, D.C.: Author. ISBN 9781433832161.

Recommended Textbooks and Readings:

Field, A. (2018). *Discovering statistics using SPSS, (5th edition)*. Sage Publications. ISBN 9781526440273 or 9781526436566. (may also use an older edition)

Nunnally, J. C., & Bernstein, I. H. (1994). *Psychometric theory (3rded.)*. New York, NY: McGraw-Hill, Inc. ISBN 0-07-047849-X. (this is a classic upon which many subsequent texts have built). (CLASSIC)

Patton, M.Q. (2015). *Qualitative research and evaluation methods (4th ed.)*. Los Angeles: Sage. ISBN 978-1412972123 or 1412972124.

Waltz, C., Strickland, O. L., & Lenz, E. R. (2017). *Measurement in nursing and health research. (5thed.)*. NY: Springer Publishing Co. ISBN 13: 978-0826170613 or 10: 0826170617.

<http://www.r2library.com/resource/title/0826170617>

Special Course Notes: You may find these resources helpful:

1) [Purdue Online Writing Lab](#)

2) [SPSS on-line Training Workshop](#)

3) Research Methods Resources Lab: Canvas Organization-this resource is still under development; nevertheless, you may find some helpful nuggets therein.

Assignments and Weights/Percentage/Point Values

1. Review of Quantitative Methods Part A	10%
2. Review of Quantitative Methods Part B	10%
3. Quantitative Quiz	10%
4. Instrumentation: Domains & Dimensions	10%
5. Critiquing Instrumentation	10%
6. Critiquing Theoretical Congruence	10%
7. Critique of Published Research	20%
8. Research Proposal	20%

Grading Scale:

Specific guidelines and grading criteria for all assignments are in the Modules. Final grades for the course will be determined based upon the following point assignments:

A - 90-100

B - 80-89

C - 70-79

D - 60-69

F - Below 60

Grades will not be rounded when calculating the average (79.5 is not rounded to 80, and 89.5 is not rounded to 90). Students are required to achieve an average of 80% (B) to complete the course successfully.

Academic Integrity: Cheating of any kind, as defined in Section 8 of the UT Tyler Manual of Policies and Procedures (MOPP) for Student Affairs (<https://www.uttyler.edu/mopp/>), will not be tolerated. Consequences may include:

- reprimand
- exam failure
- course failure
- expulsion from the Nursing program
- expulsion from the University
- other consequences as assigned

Exam and homework materials, questions, and problems are the intellectual property of faculty, UT Tyler, or publishers.

- These materials may not be distributed without permission.
- Distributing or uploading them to online resources destroys the integrity of the assignment and the course, allowing others an unfair advantage by letting them view the materials.
- Uploading these materials to online resources is a violation of UT Tyler's academic misconduct policies and may result in formal conduct charges.
- Sanctions for uploading or otherwise divulging the contents of these materials can include:
 - a reduced or failing grade on an assignment
 - a reduced or failing grade for the course
 - removal from the Nursing program
 - removal from UT Tyler

Late Policy: 5% will be deducted each day an assignment is past due unless prior arrangements have been made with your course faculty. Extenuating circumstances may apply.

Repeating a Course: Students repeating this course may not use previously submitted assignments nor utilize the same patients for an assignment. Submitting the same or slightly modified assignments from previous semesters is considered self-plagiarism and is subject to academic discipline, including failing the assignment or the course.

Attendance and Make-up Policy: Attendance/participation is expected. Make-up for exams, quizzes, assignments, and missed clinical time is at the instructor's discretion.

Graded Course Requirements Information:

Review Quantitative Methods: Create a short video summary of your assigned chapter from your quantitative textbook.

Peer Critique: Watch your peers' video summary and provide feedback via provided Qualtrics link.

Quiz: Tests knowledge of the fundamentals of research.

Create a Table: Explore theoretical constructs/concepts, domains, dimensions, and empirical indicators/items of your intended major outcome variable.

Instrumentation Critique: Explore a popular psychometric instrument.

Theoretical Congruence Critique: Read a variety of proposed purpose statements and their associated theories. Document your opinion on whether the theory provides a right fit for each proposed study's purpose.

Critique of Published Research: Explore a published study in the context of the elements of research design. What aspects were done well and what could have been improved?

Research Proposal: Develop the strongest possible research proposal draft for this stage of your scholarly journey. Proposals may be quantitative, qualitative, or mixed methods. Refer to the dissertation guidelines in PhrnDz for further information.

Please Note: Detailed information along with grading rubrics for course assignments will be provided in Canvas. Assume APA 7th style unless otherwise indicated.

Important Course Dates:

Classes Begin: January 9, 2023

Census Date (withdraw without penalty): January 20, 2023

Last Date to Withdraw: March 20, 2023. Students please notify your course faculty and contact your advisor.

Calendar of Modules, Dates, and Topics

Module Information	Dates	Topics
Module 1 Introductions & Review of Quantitative Methods Calendar Weeks 1 & 2	Jan 9 – 22, 2023	Recount the steps of the research process. Discern the most important aspects for each step of the process.
Census Date	January 20	
Module 2 Measurement Theory Calendar Weeks 3 & 4	Jan 23 – Feb 5	Differentiate various concepts related to measurement theory. Determine key domains and dimensions of the latent variables in your research study.
Module 3 Theoretical Congruence Calendar Week 5	Feb 6 --- Feb 12	Critically analyze existing research instruments. Synthesize psychometrics of an instrument.

Module Information	Dates	Topics
Module 4 Critique of Research Calendar Week 6	Feb 13 – Feb 19	Differentiate between the terms: theory, theoretical framework, & conceptual framework. Critique theoretical congruence
Module 5 Methodology Calendar Week 7, 8, & 9	Feb 20 – March 12	Analyze and critique a research study including the theoretical framework and associated research design and methodologies.
Spring Break Calendar Week 10	March 13 – March 18	
Last Date to Withdraw	March 20	
Module 6 Writing a Proposal Calendar Week 11	March 20 – March 26	Analyze issues related to participant recruitment; Develop a sampling plan and recruitment techniques; Sample size and type II error; Power Analysis Submit quantitative research proposal

UT Tyler School of Nursing Justice, Equity, Diversity and Inclusion Statement:

The University of Texas at Tyler School of Nursing aspires to create, foster, and sustain a culture of justice, equity, diversity, and inclusion irrespective of one's identity. We value and embrace all backgrounds, experiences, and identities, realizing that no one group, person or perspective has all the answers. We are richer when our individual skills, knowledge, experiences, cultures, backgrounds, and identities are combined in an accepting community. We strive to ensure that every individual gets a fair and equal chance to participate and thrive in a nurturing environment where all feel a sense of belonging. We are committed to intentionally and deliberately creating a diverse community that instills a sense of equitable justice and belonging for everyone affiliated with our school.

School of Nursing Policies and Additional Information:

https://www.uttyler.edu/nursing/college/student_guide_and_policies.php

Student Resources and University Policies are provided in Canvas.