Quantitative Research Design
NURS 6330.060
Spring 2026

Scheduled Class Days and Times: Online

Instructor's Name: Christy Gipson PhD, RN, CNE, ACUE
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Office Hours: Virtual Office Hours: Wednesdays 10:00 AM – 1:00 PM CST and by appointment or 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.

Optional Group Office hours: Schedule to be determined. Attendance is completely voluntary. Feel free to come and go as your schedule allows. These informal sessions are a chance to review course material, discuss assignments, and ask questions. My hope is that this time optional becomes an enjoyable space for open conversation and shared learning.

Course Description: Advanced quantitative research that integrates methodology, design, measurement, analysis, and interpretation.

Prerequisites: 6312; 6322 or concurrent enrollment

Student Learning Outcomes:

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

1. Synthesize the state of the science relevant to a substantive transcultural health problem through critical analyses of the literature.
2. Develop a quantitative proposal to study of a substantive transcultural health problem.
3. Provide structured critique of a published quantitative research study.

Required Textbooks and Readings:

American Psychological Association. (2019). *Publication manual of the American Psychological Association: The official guide to APA style* (7th ed.). Washington, D.C**.** ISBN 978-1-4338-3216-1

Creswell, J.W. & Creswell, J.D. (2023). *Research design: Qualitative, quantitative, and mixed methods approaches* (6th ed.). ISBN Thousand Oaks, CA: Sage Publications, Inc.-10: 1071817949, ISBN-13: 978-1071817940.

Fink, A. (2020). *Conducting Research Literature Reviews: From the Internet to Paper* (5th ed.). Sage Publishing. ISBN- 978-1-5443-1847-9

Portney, L.G. (2020). *Foundations of clinical research: Applications to Evidence-Based Practice* (4th ed.). Philadelphia, PA: F.A. Davis. ISBN-9780803661134.

Special Course Notes:

1. Proctoring Notice: No proctoring software required.
2. This course requires you to use PIVOT, an online resource UT Tyler subscribes to for the use of locating funding opportunities. You will be provided instructions on how to subscribe using your Patriots email address in Module 1 of this course. https://www.uttyler.edu/research/proposal-development/.

Assignments and Weights/Percentage/Point Values

Funding sources	5%
Review of literature	30%
Definitions table	5%
Quiz of quantitative knowledge	10%
Critique of peer-reviewed article	10%
Quantitative research proposal (Outline)	10%
Quantitative research proposal (Paper)	30%
Total	**100%**

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

UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in UT Tyler's Honor Code. Faculty and students must not use protected information, data, or copyrighted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased. Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course (see below) is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy.

You can use AI programs (ChatGPT, Copilot, etc.) in this course. These programs can be powerful tools for learning and other productive pursuits, including completing assignments in less time, helping you generate new ideas, or serving as a personalized learning tool. However, your ethical responsibilities as a student remain the same. You must follow UT Tyler's Honor Code and uphold the highest standards of academic honesty. This applies to all uncited or improperly cited content, whether created by a human or in collaboration with an AI tool. If you use an AI tool to develop content for an assignment, you must cite the tool's contribution to your work following the guidelines established by the APA/MLA/Chicago Style Guide, including the specific version of the tool used.

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:

- **Funding sources** –Identification of possible funding sources for independent research topic and alignment with National Institute of Nursing Research (NINR) strategic goals.
- **Review of Literature (ROL)** – In-depth ROL related to selected independent research topic.
- **Definitions Table** – Literature based description of major concepts and variables of independent research topic.
- **Quiz of Quantitative Knowledge** – Online quiz comprised of multiple choice and matching questions to test knowledge and application of major quantitative research elements.
- **Critique of Published Quantitative Research Methods** – In-depth and scholarly discussion and critique of major elements of a peer-reviewed and published quantitative research study.
- **Quantitative Research Proposal Outline**—Annotated outline identifying primary elements of the quantitative research proposal as applied to selected independent research topic using the SON dissertation guidelines for elements of the quantitative proposal.
- **Quantitative Research Proposal** – Proposal built from outline that provides in-depth description of planned research approach and tools that will be used to complete the proposed research.

Please Note: Detailed information along with grading rubrics for course assignments will be provided in Canvas.

Important Course Dates:

Classes Begin: January 8, 2026
Census Date (withdraw without penalty): January 21, 2026
Last Date to Withdraw: March 24, 2026. Students please notify your course faculty and contact your advisor.

Calendar of Topics, Readings, and Due Dates

Week #	Date	Class Topic	Readings	Assignments Due
			Course Schedule	
Week 1	R 1/8	Course Opens	All units contain online resources linked in Canvas in addition to these required readings	
Week 2	M 1/12	Unit 1: Introduction and funding sources	Kearney, 2017 Kiely & Wysocki, 2020 NINR Strategic Plan 2022-2026	Graduate affirmation form 1/18 **Class zoom TBD**
Week 3	M 1/19	**Martin Luther King Jr. Holiday (no class)**		
	T 1/20	Unit 2: Problem & significance of research interest	Brennan & Bakken, 2015 Creswell & Creswell, ch. 1 Portney, ch 1 & 2	Pivot & Funding Sources 1/25 ROL "quiz"-submit date/time of appt with university Health Sciences librarian 1/25
	T 1/21	*Census date*		
Week 4				
	M 1/26	Unit 3: Literature review	Fink, ch 1 pg. 3-37 Creswell & Creswell, ch 2 Moher et al., 2009 Portney, ch 6	
Week 5	M 2/2	Unit 3: Literature review	Dodgson, 2023 Fink, ch 2 pg. 49-57, 105-135 Grant & Boothe, 2009 Preston & Rew, 2021	ROL- preliminary report 2/8
Week 6	M 2/9	Unit 4: Theory, concepts, variables, and research questions	Creswell & Creswell, ch 3 Lambermon et al., 2020 Portney, ch 3 & 4 Thurman et al., 2019	

Week 7	M 2/16	Unit 5: Non-experimental designs	Creswell & Creswell, ch 8 Fink, ch 2 pg. 69-80 Portney, ch 1, 19, & 20	ROL- final report 2/22
Week 8	M 2/23	Unit 6: Quasi- and experimental designs	Creswell & Creswell, ch 8 Fink, ch 2 pg. 57-68 Portney, ch 14, 16-18	
Week 9	M 3/2	Unit 7: Population and sample pool	Creswell & Creswell, ch 8 Fink, ch 2 pg. 87-94 Portney, ch 13 & 23	
<td colspan="5" align="center">*Spring Break no class 3/9-3/13*</td>
Week 10	M 3/16	Unit 8: Measurement and analysis	Creswell & Creswell, ch 8 Riley et al., 2011 Portney, ch 8-10 & 32	Definitions Table 3/22
Week 11	M 3/23	Unit 9: Rigor and threats to validity	Creswell & Creswell, ch 8 Fink, ch 2 pg. 81-86 Portney, ch 9 pg. 210-225	Quiz of Quantitative Knowledge 3/29 Quant. Research Proposal Outline 3/29
	T 3/24	<td colspan="3">***Last day to withdraw***</td>
Week 12	M 3/30	Unit 10: Critique of published research	Conn, 2020 Portney, ch 36 pg. 558-567	Critique 4/5
Week 13	M 4/6	Unit 11: Data collection and intervention	Creswell & Creswell, ch 4, ch 8	
Week 14	M 4/13	Unit 12: Percolate and ponder	Review previously assigned material as needed	**Class Zoom**- Q&A – **time TBD** on first class date Initial date to submit Quant. Research Proposal 4/19

Week 15	M 4/20	Unit 13: Looking back and moving forward	Review previously assigned material as needed	Final date to submit Quant. Research Proposal 4/22

*Please note that all assignments must be submitted by <mark>11:59 PM Central Time</mark> on the due date listed.

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.