

The University of Texas at Tyler
Department of Health and Kinesiology
Course Information
Fall 2024

Course Title: Research Methods and Analysis

Course Number: KINE 5301

Course Structure & Meeting Times

Date: 8 / 26 / 2024 – 12 / 4 /2024

Days and Times: Online

Lecture: Online

Instructor Information

Name and Title: Woohyoung Jeon, Ph.D., Assistant Professor of Health and Kinesiology

Office location: HPC 2245 (inside Lab at HPC 2235)

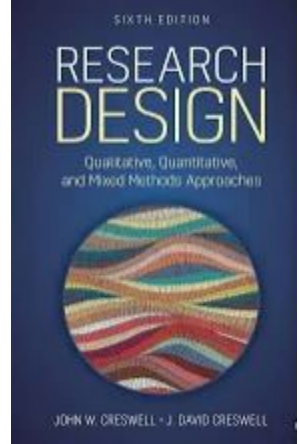
Email address: wjeon@uttyler.edu

Office hours: By appointment

Overview: This course offers an overview of research design, methodology and technique, and data analysis. Course objectives include:

- 1) Becoming familiar with the concepts, language, methods, and applications of research.
- 2) Developing the ability to formulate clear research questions.
- 3) Developing the ability to identify an appropriate research design to answer your research questions.
- 4) Learning how to frame the problem with the correct research methodology.
- 5) Learning statistical analysis methods.
- 6) Learning how to analyze data to extract insights that support decision-making.

Required Texts:

	<p><i>Research Design: Qualitative, Quantitative, and Mixed Methods Approaches</i> <i>Sixth (or Fifth) Edition by John Ward Creswell and John David Creswell</i></p> <p><i>*The textbook is necessary to take this course. It should be used to prepare for chapter quizzes and final test.</i></p> <p><i>*You will take the chapter quizzes and final test through Proctor U: Test through Proctor U: Don't get "looked off" flagged. Remove all the cheating sheets around your laptop screen or monitor. <u>Your score will be "0" if you get flagged by Proctor U. No excuse.</u></i></p>
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Evaluation: Course Evaluation will be based on two exams covering lecture materials, completion of assignments, and a separate literature review on a topic chosen by the student.

1. Post Chapter Quizzes (50% of grade)
2. Research Proposal Writing (50% of grade)

Title Page (Topic)	
Introduction & Background	Background (literature review) Research Problem Objectives (Aims)
Significant and Impact	
Methods (Approach)	Research Design Participants Data Collection Data Analysis
Expected Outcome & Future Direction	

Post Chapter Quizzes (Quiz 1, 2, 3, 4, 5) <i>*You will take all the quizzes through Proctor U</i>	50 %
Research Proposal Writing Assignment (Introduction 25% + Methods 25% + Final draft 50%)	50 %
Total	100%

Final Grades:

Grading will be based on the following scale (**no round-off** calculation):

A	90% ≥	PASS
B	80% ≤ < 90%	
C	70% ≤ < 80%	
D	60% ≤ < 70%	FAIL
F	< 60%	

KINE 5301 Course Schedule

Date	Topic	Assignments
8/26 - 9/1	The Use of Theory: Quantitative	Read: Chapter 3 – 1 Quantitative Theory <u>*Assignment</u> General research question, research topic
9/2 - 9/8	The Use of Theory: Qualitative	Read: Chapter 3 – 2 Qualitative Theory Post-Chapter <u>Quiz 1</u> (Chapter 3: The Use of Theory) <u>*Assignment</u> Proposal writing title
9/9 - 9/15	The Introduction Background of the proposed research	Read: Chapter 5 Post-Chapter <u>Quiz 2</u> (Chapter 5: The Introduction) <u>*Assignment</u> Review paper summary: <i>Introduction & Background</i>
9/16 - 9/22	Proposal Writing: Introduction & Background (What is the problem? Why is it important?)	Due: Introduction & Background
9/23 - 9/29	The Purpose Statement Study Aims	Read: Chapter 6 Post-Chapter <u>Quiz 3</u> (Chapter 6: The Purpose Statement) <u>*Assignment</u> Study Aims
9/30 - 10/6	Research Questions and Hypotheses How to narrow down the purpose statement to the predictions about what will be answered?	Read: Chapter 7 Post-Chapter <u>Quiz 4</u> (Chapter 7: The Questions and Hypotheses) <u>*Assignment</u> Study Hypotheses supporting the aims.

10/7 - 10/16	Proposal Writing: Introduction & Background + Research Questions & Hypotheses	Due: Research Proposal - Introduction & Background + Research Questions & Hypotheses
10/17 - 10/26	Statistical Analysis for Quantitative Research Design	Read: Chapter 8 – 1 <u>*Assignment</u> Design, Methods, and Data Analysis (part 1)
10/27 - 11/6	Quantitative Methods: Measurement and Data Analysis Plan	Read: Chapter 8 – 2 Post-Chapter <u>Quiz 5</u> (Chapter 8: Quantitative Methods) <u>*Assignment</u> Design, Methods, and Data Analysis (part 2)
11/7 - 11/14	Proposal Writing: Methods	Due: Research Proposal - Design, Methods, and Data Analysis
12/9	Proposal Writing: Final Draft	Due: Research Proposal - <u>Final Draft</u>

Course Policies and Expectations:

Professionalism: Students are expected to arrive on time for class. It is expected that students will display a professional attitude at all times, including being attentive during lectures and being respectful to the instructor and fellow classmates. No cell phone use during lecture!

Attendance: Students are expected to attend all classes and are responsible for any material missed. Your success in this class will depend on your attendance and the effort you put forth, both online and in person.

Missed class: Students who miss class, regardless of the reason, are expected to take the initiative to obtain notes and/or homework from a fellow student who attended that class.

Make-up: All online assignments have firm due dates. You'll have access to these for at least three days prior to the due date. Any work turned in after the deadline will receive a **zero** for a grade. If you need a make-up for personal reasons, contact me at least a week before. I will work with you to make appropriate arrangements.

Classroom Accommodations: The University of Texas at Tyler provides, upon request, appropriate academic accommodations for qualified students with disabilities. For more

information, contact Disability Services Office at 903-566-7079 or <https://www.uttyler.edu/disability-services/request/>. If this office certifies your need, I will work with you to make all appropriate arrangements.

Artificial Intelligence Statement

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 is considered a breach of academic integrity.** The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy. *Refer to the About This Course section of the UT Tyler Syllabus Module for specific information on appropriate use of AI in your course(s).*

Learner Support:

The University of Texas at Tyler provides institutional support services essential to learner success.

[Student Resources for Hybrid and Online Courses](#) is available for technical support. [Student accessibility and resources](#) are available through The UT Tyler Office of Student Accessibility and Resources (SAR). The office provides students equal access to all educational, social, and co-curricular programs through coordination of services and reasonable accommodations, consultation and advocacy.

[UT Tyler PASS Tutoring Center](#) (University Center, 3114) is a free walk-in tutoring center, with an individual appointment option, for current UT Tyler students. Currently support for 20 courses is being offered in a variety of subjects.

Student

[UT Tyler Student Services](#) provides support and opportunities that maximize a student's ability to benefit from the academic environment through accessibility, professional counseling, recovery, wellness and testing services. The support services encourage personal responsibility and healthy decision-making that contribute to lifelong learning.