

PT630: Foundations in Clinical Research

Fall 2024

TBD by Faculty after 8/30/2024

COURSE DESCRIPTION:

This course will explore various methods of physical therapy clinical research. Students will work with faculty through study coordination, data collection, data analysis, and scientific writing.

CAPTE Standards & Elements:

Standard 7: Elements 7C and 7D

DEPARTMENT OFFERING THE COURSE:

UND School of Medicine and Health Sciences - Department of Physical Therapy

CREDIT HOURS: 2 Credit Hours**ABOUT THE PROFESSOR & CONTACT INFORMATION:**

Name: Ricky Morgan, PT, DPT, PhD, OCS, Cert. MDT

Phone: (701) 777-3862

Email: Richard.morgan@und.edu

Office Location: UND-SMHS Suite E321, Room E349

Student Hours: By Appointment

COURSE CONTACT HOURS:

Schedule (Clock hours): 2 hours per week (times may vary depending on availability of lab space for data collection)

Lecture: 10:00am-12:00pm (8/30/24 only)

Laboratory: TBD by independent faculty that is leading the research

COURSE PREREQUISITES:

Registered in the professional Physical Therapy program.

COURSE OBJECTIVES:

After successfully completing this course, you should be able to:

1. Prepare and discuss a clinical case from clinical education experience (**SRE:** 7C, 7C1, 7C2, 7D, 7D13, 7D17, 7D18; **Blooms Taxonomy:** Cognitive: Analyzing and Evaluating; **PGs:** 1 & 4; **Threads:** Critical Inquiry/Clinical Decision Making, Evidence Based Practice).
2. Demonstrate an understanding of a variety of devices for research studies available in the Department of Physical Therapy through participation in immersive lab activities for each device (**SRE:** 7C, 7C1; **Blooms Taxonomy:** Cognitive: Remembering, Understanding, Applying, Affective: Responding, Psychomotor: Set; **PGs:** 1 & 4).
3. Identify appropriate research study design elements for a variety of research project types (**SRE:** 7C, 7C1; **Blooms Taxonomy:** Cognitive: Remembering, Understanding, Applying, Affective: Responding; **PGs:** 1 & 4; **Threads:** Critical Inquiry/Clinical Decision Making, Evidence Based Practice).
4. Work with a faculty member and peers as a team to complete a course project. The course project will include a review of the literature, methods, results, discussion, project reflection, and references. Students will develop a minimum 5-page paper to demonstrate their understanding of study design, data capture, and data analysis (**SRE:** 7C, 7C1, **Blooms Taxonomy:** Cognitive: Applying, Analyzing, Evaluating, and Creating, Affective: Responding, Psychomotor: Set, Guided response, Mechanism; **PGs:** 1 & 4; **Threads:** Critical Inquiry/Clinical Decision Making, Evidence Based Practice).
5. Demonstrate efficient use of current literature and AMA Guidelines in developing a paper on the course project (**SRE:** 7C, 7C1; **Blooms Taxonomy:** Cognitive: Applying, Affective: Responding, Psychomotor: Mechanism;

COURSE SCHEDULE AND OUTLINE OF CONTENT:

- See attached schedule

DESCRIPTION OF TEACHING METHODS AND LEARNING EXPERIENCES:

Lecture, laboratory, self-study. Written assignment on a course project.

COURSE MODE OF DELIVERY:

- Synchronous, in-person

ATTENDANCE:

Class attendance is expected 100% of the time. Students must first attempt to notify the instructor by phone or in person of any absences. The student must also contact the instructor directly through e-mail or written documentation for any absences.

MAKE-UP WORK/EXAMINATIONS:

If an absence is anticipated, make-up examinations should be completed *prior* to the absence. If an absence is unanticipated, arrangements for make-up examinations must be made *by the student within three days* of the student's return to classes. **Students may be assigned additional coursework for all absences.**

MATERIALS – TEXT, READINGS, & SUPPLEMENTARY READINGS:

Completion of course project data collection and analysis, development of a scholarly project-like document. Readings include research articles, case study guidelines, and instrumentation manuals relevant to the scholarly project research.

METHODS OF STUDENT EVALUATION:

Successful completion of IRB training, collaboration with peers and faculty to complete a course project, and developing a 5-page (minimum paper describing the activities and overall course experience). A rubric is utilized to assess performance.

GRADING SCALE:

Grading Scale	Breakdown
A 90% to 100%	Research equipment review (20%)
B 80% to 89.9%	Peer Evaluation (10%)
C 76% to 79.9%	Oral Presentation from Clinic (20%)
F < 76%	Course Group Project Paper (50%)

For more information on grading policies, please refer to the [UND-PT Scholastic Standards Document](#)

COURSE ACCESS & TECHNICAL REQUIREMENTS

This course was developed and will be facilitated utilizing Blackboard. For access go to: <http://blackboard.UND.edu> and log in with your NDUS.Identifier. If you do not know your NDUS Identifier or have forgotten your password, please visit [Your NDUS Account Webpage](#)

Visit the [UND Technical Requirements](#) webpage for more information. Students are expected to use their official UND email in the course. For technical assistance, please contact [UND Technical Support](#) at 701.777.2222

ARTIFICIAL INTELLIGENCE (AI)

Artificial Intelligence tools are allowed in this course as approved by the instructor(s). Students are required to disclose if they use AI-generated text or images and how they apply it in their work. Failure of students to acknowledge their use of AI or using fabricated information could result in their violation of the Academic Integrity Policy. Students must ensure the originality of their work, maintain academic integrity, and avoid any type of plagiarism. The students need to understand the material and complete assignments on their own, using AI tools as a supplement rather than a replacement for their work. Students should not use sources that are cited by AI tools without having read them because generative AI tools can either create fake citations or cite a real piece of writing, but the cited content may be inaccurate. The faculty reserves the right to use various plagiarism-checking tools in evaluating students' work, including those screening for AI-generated content, and impose consequences accordingly.

For more information on AI Policies, please visit [Artificial Intelligence Resources](#).

UNIVERSITY OF NORTH DAKOTA POLICIES & RESOURCES:

Nondiscrimination

It is the policy of the University of North Dakota that no person shall be discriminated against because of race, religion, age, color, gender, disability, national origin, creed, sexual orientation, gender identity, genetic information, marital status, veteran's status, or political belief or affiliation and the equal opportunity and access to facilities shall be available to all. Concerns regarding Title IX, Title VI, Title VII, ADA, and Section 504 may be addressed to Donna Smith, Assistant Vice President for Equal Opportunity and Title IX/ADA Coordinator, 401 Twamley Hall, 701.777.4171, UND.EO.TitleIX@UND.edu or the Office for Civil Rights, U.S. Dept. of Education, 230 S. Dearborn St., 37th Floor, 500 West Madison, Suite 1475, Chicago, IL 60611 or any other federal agency.

The full [Notice of Non-discrimination](#) is available online through Equal Opportunity & Title IX.

Accessibility Statement

The University of North Dakota is committed to providing equal access to students with documented disabilities. To ensure access to this class and your program, please contact <https://und.edu/student-life/student-disability-resources/index.html> to engage in a confidential discussion about accommodations for the classroom and clinical settings.

Accommodations are not provided retroactively. Students are encouraged to register with [Student Disability Resources](#) at the start of their program. More information can be obtained by email, UND.sdr@UND.edu, or by phone at 701.777.2100.

Religious Accommodations

UND offers religious accommodations, which are reasonable changes in the academic environment that enable a student to practice or observe a sincerely held religious belief without undue hardship on the University. Examples include time for prayer or the ability to attend religious events or observe a religious holiday. To request an accommodation, complete the [student religious accommodation request form](#). To learn more, please consult UND's [Religious Accommodations Policy](#) or contact the [Equal Opportunity & Title IX Office](#).

Pregnancy Accommodations

Students who need assistance with academic adjustments related to pregnancy or childbirth may contact the [Equal Opportunity & Title IX Office](#) or Academic Affairs to learn about your options. Additional information and services may be found at [Pregnancy Resources](#) and in [UND's Protections for Pregnant and Parenting Students and Employees Policy](#).

Reporting Discrimination, Harassment, or Sexual Misconduct

If you or a friend has experienced sexual misconduct, such as sex-based harassment, domestic violence, dating violence, or stalking, please contact the [Equal Opportunity & Title IX Office](#) or UND's Title IX Coordinator, Donna Smith, for assistance at 701.777.4171 or donna.smith@UND.edu.

You may also contact the Equal Opportunity & Title IX office if you or a friend has experienced discrimination or harassment based on a protected class, such as race, color, national origin, religion, age, disability, sex, sex characteristics, sexual orientation, gender identity, genetic information, pregnancy, marital or parental status, veteran's status, or political belief or affiliation.

Faculty Reporting Obligations Regarding Discrimination, Harassment, or Sexual Misconduct

It is important for students to understand that faculty are required to share with UND's Equal Opportunity & Title IX Office any incidents of potential sexual misconduct or of discrimination or harassment based on a protected class that they become aware of, even if those incidents occurred in the past or are disclosed as part of a class assignment. This does not mean an investigation will occur if the student does not want that, but it does allow UND to provide resources to help the student continue to be successful at UND. If you have been impacted by discrimination, harassment, or sexual misconduct, you can find information about confidential support services at the [Equal Opportunity & Title IX](#) webpage.

Health and Safety

UND is committed to maintaining a safe learning environment and asks students and instructors to be flexible when necessary to promote quality learning experiences.

Please do not attend an in-person class or lab if you are feeling ill or if you have been directed by health professionals to stay home.

- If you are not able to attend class or lab, please notify your instructor as soon as possible and discuss options for making up any missed work.
- If you will have an extended absence due to serious illness or other uncontrollable circumstances, you may request an absence notification through [Community Standards and Care Network](#).
- If your instructor is ill, they may need to cancel class or temporarily move your course to online delivery.

Please contact [Student Health Services](#) if you have health questions by calling 701.777.4500 or visiting myhealth.und.edu

Schedule:

PT 630: Foundations of Clinical Research

Week 1: all students will meet on August 30 from 10:00 am – 12:00 pm in room W202

Weeks 2-4: students will be in small groups with faculty as outlined below

Weeks 5 & on: students will be assigned to a small group with one faculty for project completion

EMG (Dave) rm E223	Blood Flow Restriction (Gary) rm E223 or E410 (please check below for room)	Biodex (Cindy) Storage Room	BlazePods (Ricky) rm E224 or E411 (please check below for room)	BiPED Lab (Jesse Rhoades) Basement of FPC
Group D 9:30-11:00 Sept 3	Group C 10:00-11:00 Sept 5 rm E223	Group A 10:00-10:45 Sept 10	Group B 10:00-11:00 Sept 5 rm E224	Group D 10:00-12:00 Sept 10
Group B 11:00-12:30 Sept 3	Group B 11:00-12:00 Sept 5 rm E223	Group B 10:45-11:30 Sept 10	Group C 11:00-12:00 Sept 5 rm E224	Group B 10:00-12:00 Sept 12
Group C 9:30-11:00 Sept 10	Group A 10:00-11:00 Sept 6 rm E410	Group C 10:00-10:45 Sept 12	Group D 10:00-11:00 Sept 6 rm E411	Group C 10:00-12:00 Sept 17
Group A 11:00-12:30 Sept 10	Group D 11:00-12:00 Sept 6 rm E410	Group D 10:45-11:30 Sept 12	Group A 11:00-12:00 Sept 6 rm E411	Group A 10:00-12:00 Sept 19

Group A:

Emma Boris
Hunter Johnson
Reese Richards
Lynsay Benson
Erica Peters
Logan Redding
Adam Zavalney
Tyler Grensteiner
Sadie Olson
Isabella Whiston
Gabrielle Rhey
Allison Jepson
Ian Dahners

Group B:

Matthew Feddema
Samantha Krogfoss
Hannah Snobeck
Parker Carroll
Braeden Knutson
Tyler Schmit
Abby Bertsch
Jenna Hildebrant
John Polejewski
Dana Zarn
Rachel Dukart
Carlan Haugrud

Group C:

Jake Graf
Benjamin Oie
Breana Tretter
Quincie Floden
Olivia Manuel
Jeremiah Talley
Madison Bowers
Isaiah Kludt
Hailee Schauer
Hannah Ust
Jacob Marciniak
Noah Gaffy

Group D:

Caden Heinert
Logan Petznick
Audrey Whitman
Haley Hase
Eliana Parks
Mara VanNyhuis
Matthew Fetner
Rachel Kuechle
Ellie Tillma
Lucas Simon
Crystal Koglin
Riley Ahrndt