

Western University  
Faculty of Health Sciences  
**School of Kinesiology**

**KIN 2032B - Research Design in Human Movement Science  
Winter 2022**

**Instructor:** Dr.

**-requisites):**

An introduction to the basic aspects of reading, interpreting, evaluating, and presenting research in order to better understand the research process in physical activity. Measurement and data collection techniques from physical and social science areas of kinesiology will be examined using both quantitative and qualitative research designs employed in movement science.

**Antirequisite(s):** [Health Sciences 2801A/B](#).

**Pre-or Corequisite(s):** Any 1.0 or 0.5 statistics course, or Data Science 1000A/B.

**Extra Information:** 2 lecture hours; 2 laboratory hours every three weeks.

*You are responsible for ensuring that you have successfully completed all course pre-requisites, and*

**Learning Outcomes/Schedule:**

Upon completion of this course students will be able to:

1. Explain the essentials of the research process
2. Evaluate different types of research and related design issues
3. Interpret statistical analyses common to research studies
4. Appraise and reach valid conclusions based on data, methods, and logic
5. Develop and propose a research question and experiment (labs)

**Schedule (Subject to change)**

<b>Week</b>	<b>Topics</b>	<b>Schedule &amp; Deadlines</b>
Week 1: Jan. 10-14	Introduction, course outline & policies Scientific method	
Week 2: Jan. 17-21	Ethics Evaluating scientific literature	
Week 3: Jan. 24-28	Relationships between variables Experimental methods	Lab 1
Week 4: Jan. 31-Feb. 4	Reliability Validity	
Week 5: Feb. 7-11	Measurement scales Planning your study	Lab 2

Week 6: Feb. 14-18





B) Computer marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

### 3. **Electronic Device Usage:**

**During Exams** - Unless you have medical accommodations that require you to do so, or explicit permission from the instructor of the course, you may not use any of the following electronic devices during ANY of the tests, quizzes, midterms, examinations, or other in-

**The following conditions are in place for self-reporting of medical or extenuating circumstances:**

- a. **a maximum of two self-reported absences** between September and April and one self-reported absence between May and August;
- b. any absences in excess of the number designated in clause a above will require students to present a Student Medical Certificate (SMC) or appropriate documentation supporting extenuating circumstances to the Academic Counselling unit in their Faculty of registration no later than two business days after the date specified for resuming responsibilities.
- c. The duration of the excused absence will be for a maximum of 48 hours from the time the Self-Reported Absence form is completed through the online portal, or from 8:30 am the following morning if the form is submitted after 4:30 pm;
- d. The duration of the excused absence will terminate prior to the end of the 48 hour period should the student undertake significant academic responsibilities (write a test, submit a paper) during that time;
- e. The duration of an excused absence will terminate at 8:30 am on the day following the last day of classes each semester regardless of how many days of absence have elapsed;
- f. Self-

this syllabus. In the event that you must arrive late, please enter the classroom with a minimal disturbance to the class. Please keep all electronic devices on silent and avoid distracting classmates.

#### 9. **Student Code of Conduct**

The purpose of the Code of Student Conduct is to define the general standard of conduct expected of students registered at Western University, provide examples of behaviour that constitutes a breach of this standard of conduct, provide examples of sanctions that may be imposed and set out the disciplinary procedures that the University will follow. For more information, visit <https://www.uwo.ca/univsec/pdf/board/code.pdf>

#### 10. **Recordings**

Participants in this course are not permitted to record the sessions, except where recording is an approved accommodation, or the participant has the prior written permission of the instructor.

For Labs only: All of the remote learning sessions for this course will be recorded. The data captured during these recordings may include your image, voice recordings, chat logs and personal identifiers (name displayed on the screen). The recordings will be used for educational purposes related to this course, including evaluations. The recordings may be disclosed to other individuals participating in the course for their private or group study purposes. Please contact the instructor if you have any concerns related to session recordings.

#### 11. **Course delivery with respect to the COVID-19 pandemic**

Although the intent is for this course to be delivered in-person, the changing COVID-19 landscape may necessitate some or all of the course to be delivered online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on OWL for students to view at their convenience). The grading scheme will not change. Any assessments affected will be conducted online as determined by the course instructor.

**When deemed necessary**, tests and examinations in this course will be conducted using a remote proctoring service. By taking this course, you are consenting to the use of this software and acknowledge that you will be required to provide personal information (include ~~800-212-3~~ (e),) J0 Tc 0 Tw 3.26