

# Western HealthSciences

## School of Kinesiology

### Foods and Nutrition 2032A: Research Design in Foods and Nutrition/ Kinesiology 2032F: Research Design in Human Movement Science

Fall 2025

#### Campus Supports

Western University is committed to a **thriving campus**. For help with:

- Both physical and mental health, go to [Wellness & Wellbeing](#)
- Studying with disabilities, go to [Accessible Education](#)
- Writing skills, go to the [Writing Support Centre](#)
- Learning skills and strategies, go to [Learning Development & Success](#)
- Contacting the ombudsperson, go to the [Office of the Ombudsperson](#)



Your course instructor can also **guide you** to available campus resources and/or services.

#### Technical Requirements



Laptop computer



Audio-Visual

#### Contact Information

Instructor	Email	Office Hours
Dr. Stephen Lin	clin64@uwo.ca	By zoom appointment
Teaching Assistants	Email	Office Hours
Kenneth Aguh	kaguh@uwo.ca	By zoom appointment
Heba Al-Samarai	halsamar@uwo.ca	Wednesdays 9:00am-2:00pm
Mina Khalid	mkhal7@uwo.ca	By zoom appointment
Emma Miller	emill29@uwo.ca	By zoom appointment
Marissa Moore	mmoor223@uwo.ca	By zoom appointment
KJ Uyeno	kuyeno@uwo.ca	By appointment
Songlin Zhu	szhu86@uwo.ca	By appointment
Ann Waithera	awaither@uwo.ca	By zoom appointment
Rachel Watson	rwatso53@uwo.ca	By zoom appointment

**NOTE:** All course information including grades, assignment outlines, deadlines, etc. are available via [OWL Brightspace](#). Download the Brightspace Pulse App to stay up-to-date on course communication and enable your notification settings within “Communications” in the top toolbar.

### Calendar Course Description:

An introduction to the basic aspects of reading, interpreting, evaluating, and presenting research 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):** [Foods and Nutrition 2032A/B](#), [Health Sciences 2800](#), [Health Sciences 2801A/B](#), [Psychology 2801F/G](#), [Psychology 2802F/G](#), [Psychology 2830A/B](#), [Psychology 2840F/G](#), the former Psychology 2800E, the former Psychology 2820E.

*Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course, and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.*

**NOTE: If you wish to enroll in this course without the stated pre-requisite(s), you must obtain written approval from the course instructor. The approval should then be forwarded to your academic counsellor.**

### Learning Outcomes:

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

1. Understand what research is and how research questions can be answered
2. Formulate relevant research questions and evaluate research designs
3. Know the basic elements of different of methodological approaches and understand their merits and limitations
4. Appreciate the challenges and complexity of human-based research
5. Understand the ethical considerations involved in doing human subjects research
6. Develop skills for reading and critically thinking about empirical research

**Lecture Time & Location:** Mondays, 7:00-8:50pm, AHB 1R40

### Lab Sessions & Timetables

Section	Dates	Time	Room	TA
002	Monday	3:30 pm - 4:20 pm	PAB 36	Emma Miller
003	Monday	4:30 pm - 5:20 pm	PAB 36	Emma Miller
004	Tuesday	4:30 pm - 5:20 pm	UCC 61	Songlin Zhu
005	Tuesday	5:30 pm - 6:20 pm	UCC 61	Songlin Zhu
006	Wednesday	3:30 pm - 4:20 pm	UCC 59	Marissa Moore
007	Wednesday	4:30 pm - 5:20 pm	UCC 59	Marissa Moore
008	Thursday	4:30 pm - 5:20 pm	SH 3305	KJ Uyeno
009	Thursday	5:30 pm - 6:20 pm	SH 3305	KJ Uyeno
010	Friday	9:30 am - 10:20 am	UCC 59	Rachel Watson
011	Friday	10:30 am - 11:20 am	UCC 59	Kenneth Aguh
012	Wednesday	7:00 pm - 7:50 pm	SH 3307	Heba Al-Samarai
013	Wednesday	8:00 pm - 8:50 pm	SH 3307	Heba Al-Samarai
014	Thursday	2:30 pm - 3:20 pm	UCC 59	Ann Waithera
015	Thursday	3:30 pm - 4:20 pm	UCC 59	Mina Khalid

**Note: Please note that the first lab will take place in week 3 (Sept 22-26)**

## Course Content and Schedule

Week	Lecture Date	Topics	Assignment	Reading
1	Sept 8	Course Introduction Theory & Social Research		Chapter 1 Section 1,2,3
2	Sept 15	Design a Research Study		Chapter 2 Section 7,8,9, 10,11
3	Sept 22	Measurement  Validity & Reliability	Lab 1	Chapter 4 Section 19,20,21
4	Sept 29	Sampling	Lab 1 Assignment Due in Week 4 <sup>a</sup>	Chapter 7 Section 36 (read until the first paragraph of page 201)
5	Oct 6	Online Midterm Exam (No Class)		
6	Oct 13	Thanksgiving (No Class)		
7	Oct 20	Experimental Research Quasi-experimental Research	Lab 2	Chapter 5 Section 23,24,25,26  Chapter 8 Section 38,39
8	Oct 27	Survey Research Questionnaire Design	Lab 2 Assignment Due in Week 8	Chapter 6 Section 28,29,30
9	Nov 3	Reading Week (No Class)		
10	Nov 10	Foundations of Quantitative Data Analysis - Central Tendency - Dispersion	Lab 3	Chapter 12 Section 52,53
11	Nov 17	Hypothesis Testing	Lab 3 Assignment Due in Week 11	Chapter 13 Section 57
12	Nov 24	Introduction to Qualitative Methods	Lab 4	Chapter 6 Section 31,32
13	Dec 1	Qualitative Data Analysis		Lecture Content
14	Dec 8	Research Ethics	Lab 4 Assignment All Due on Dec 9	Chapter 3 Section 15,16,17

<sup>a</sup> For students who are in lab section 4 and 5, your lab assignment 2 is due on October 1, Wednesday by 11:59pm due to the fact that Tuesday, September 30 is National Day for Truth and Reconciliation.

## **Required Course Material**

The required, free textbook for this course is available below. Readings can be found on the course schedule and are testable:

<https://open.umn.edu/opentextbooks/textbooks/research-methods-in-psychology-3rd-american-edition>

## **Assessments and Evaluation**

Below is the evaluation breakdown for the course. Any deviations will be communicated.

<b>Assessment</b>	<b>Format</b>	<b>Weight</b>	<b>Date</b>	<b>Flexibility</b>	<b>Learning Outcome</b>
Midterm Test	Multiple choice	25%	October 6	Not applicable - Designated Assessment <sup>1</sup>	1,2,3
Lab Assignment 1	Written	10%	One week after your lab session by 11:59pm	See academic policy and statements <sup>2</sup>	1,2
Lab Assignment 2	Written	10%	One week after your lab session by 11:59pm	See academic policy and statements <sup>2</sup>	3
Lab Assignment 3	Written	10%	One week after your lab session by 11:59pm	See academic policy and statements <sup>2</sup>	3
Lab Assignment 4	Written	10%	December 9 by 11:59pm	See academic policy and statements <sup>2</sup>	4
Final Exam	Multiple Choice	35%	TBA	Not applicable - Designated Assessment <sup>3</sup>	1,2,3,4,5,6

1. This assessment has been designated as being central to the evaluation of learning outcomes in this course. Accordingly, you must provide documentation with academic consideration requests for any absence from this evaluation. If you miss this evaluation, you must complete the makeup assessment. The makeup assessment is an extension of the Midterm Test, and so you will need to present documentation for this assessment, should you need to miss it. Please note that there is only one makeup assessment for this Midterm. It will be available at least one week after the date of the midterm exam. Students approved to miss the makeup will have the weight of this assessment transferred to the final exam. Students must not provide medical or compassionate documentation to the instructor. Students must submit all academic consideration requests through the [Student Absence Portal \(SAP\)](#).
2. You must submit this assignment by the deadline listed. Should extenuating circumstances arise, you are permitted to submit your assignment up to 72 hours past the deadline without a late penalty. No Academic Consideration is required for this extension. Students submitting their assessment beyond the extended deadline will receive a penalty of 5% mark deduction per day that it is late. Academic Consideration requests may be granted only for extenuating circumstances that began before the deadline and lasted longer than the extension. Students must not provide medical or compassionate documentation to the instructor.
3. You cannot use undocumented absences for final exams.

## General information about assessments

- All assignments are due at 23:59 EST unless otherwise specified
- You are responsible for ensuring that the correct file version is uploaded; incorrect submissions including corrupt files could be subject to late penalties (see below) or a 0
- Written assignments will be submitted to Turnitin (statement in policies below)
- You will have access to Turnitin reports before your submission is graded.
- After an assessment is returned, you should wait 24 hours to digest feedback before contacting their teaching assistant; to ensure a timely response, reach out within 7 days
- Prior to the filing of a written request for relief, you should attempt to resolve the concern regarding a mark or grade through informal consultation with the instructor. If you are dissatisfied with the decision of the instructor or you do not receive a decision from the instructor, a written request for relief must be submitted to the Undergraduate Chair of the School offering this course, within three (3) weeks from the date that the mark was issued.

The table below outlines University-wide grade descriptors.

Letter grade	Number grade	Description
A+	90-100	One could scarcely expect better from a student at this level
A	80-89	Superior work which is clearly above average
B	70-79	Good work, meeting all requirements, and eminently satisfactory
C	60-69	Competent work, meeting requirements
D	50-59	Fair work, minimally acceptable
F	below 50	Fail

The final grade documented is the grade that you have achieved. There is no rounding to the next grade level, or 'giving away' of marks. Please don't ask me to do this for you; the response will be "please review the course outline where this is presented".

### Information about late or missed assessments:

- Late assessments submitted without approved academic consideration will incur a penalty of 5% per day, or may receive a grade of zero if excessively overdue

**INC (Incomplete Standing):** If a student has been approved by the Academic Advising Office (in consultation with the instructor/department) to complete term work at a later date, an INC will be assigned. Students with INC will have their course load in subsequent terms reduced to allow them to complete outstanding course work. Students may request permission from Academic Advising to carry a full course load for the term the incomplete course work is scheduled.

**SPC (Special examination):** If a student has been approved by the Academic Advising Office to write a Special Examination and the final exam is the only outstanding course component, an SPC will be assigned. If the class has a makeup exam, the student is expected to write the makeup exam. If the class doesn't have a makeup exam or the student misses the makeup exam for reasons approved by the Academic Advising Office, the student will write the exam the next time the course is offered. Outstanding SPCs will reduce the course load for the term the exam is deferred as outlined in [Types of Examinations](#) policy

## **Academic Policies and Statements**

### **Support Services**

There are various support services around campus and these include, but are not limited to:

1. Academic Support and Engagement - <http://academicsupport.uwo.ca>
2. Wellness and Well-being - <https://www.uwo.ca/health/>
3. Registrar's Office -- <http://www.registrar.uwo.ca/>
4. Ombuds Office -- <http://www.uwo.ca/ombuds/>

The websites for Registrarial Services (<http://www.registrar.uwo.ca>), and the same for affiliated university colleges when appropriate, and any appropriate Student Support Services (including the services provided by the USC listed here: <http://westernusc.ca/services/>) and the Student Development Services, should be provided for easy access. Students who are in emotional/mental distress should refer to Mental Health@Western (<https://www.uwo.ca/health/>) for a complete list of options about how to obtain help.

### **Statement on Gender-Based and Sexual Violence**

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at:

[https://www.uwo.ca/health/student\\_support/survivor\\_support/get-help.html](https://www.uwo.ca/health/student_support/survivor_support/get-help.html).

### **Statement on Harassment and Discrimination**

Western is committed to providing a learning and working environment that is free of harassment and discrimination. All students, staff, and faculty have a role in this commitment and have a responsibility to ensure and promote a safe and respectful learning and working environment. Relevant policies include Western's Non-Discrimination/Harassment Policy (M.A.P.P. 1.35) and Non-Discrimination/Harassment Policy – Administrative Procedures (M.A.P.P. 1.35). Any student, staff, or faculty member who experiences or witnesses' behaviour that may be harassment or discrimination **must report the behaviour** to the Western's Human Rights Office. Harassment and discrimination can be human rights-based, which is also known as EDI-based, (sexism, racism, transphobia, homophobia, islamophobia, xenophobia, antisemitism, and ableism) or non-human rights-based (personal harassment or workplace harassment).

### **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>

### **Absence from Course Commitments**

Students must familiarize themselves with the Policy on [Academic Consideration – Undergraduate Students in First Entry Programs](#)

Students missing course work for medical, compassionate, or extenuating circumstances can request academic consideration by completing a request at the [central academic consideration portal](#). Students are permitted one academic consideration request per course per term **without** supporting documentation. Note that supporting documentation is **always** required for academic consideration requests for examinations scheduled by the office of the registrar (e.g., December and April exams) and for practical laboratory and performance tests (typically scheduled during the last week of the term).

Students should also note that the instructor may **designate** one assessment per course per term that requires supporting documentation. This designated assessment is described elsewhere in this document. Academic consideration requests may be denied when flexibility in assessment has already been included. Examples of flexibility in assessment include when there are assessments not required for calculation of the final grade (e.g. 8 out of 10 quizzes), when there is flexibility in the submission timeframe (e.g. 72 hour no late penalty period), or when timed assessments (e.g., quizzes) are available over an extended period of time (e.g., when you are given a 72 hour time period to start – and finish – the assessment).

Please note that academic considerations in this course are granted by the academic advisors in your home unit and implemented by the instructor of this course in accordance with information presented in this course syllabus. Supporting documentation for academic considerations for absences due to illness should use the [Student Medical Certificate](#) or, where that is not possible, equivalent documentation by a health care practitioner. If your absence relates to accommodations that are already supported by [Accessible Education](#), please work with your accessible education counsellor regarding your missed course work.

### **Accommodation for Religious Holidays**

Students should review the policy for [Accommodation for Religious Holidays](#). Where a student will be unable to write examinations and term tests due to a conflicting religious holiday, they should inform their instructors as soon as possible but not later than two weeks prior to writing the examination/term test. In the case of conflict with a midterm test, students should inform their instructor as soon as possible but not later than one week prior to the midterm.

### **Special Examinations**

A Special Examination is any examination other than the regular examination, and it may be offered only with the permission of the Dean of the Faculty in which the student is registered, in consultation with the instructor and Department Chair. Permission to write a Special Examination may be given on the basis of compassionate or medical grounds with appropriate supporting documents. To provide an opportunity for students to recover from the circumstances resulting in a Special Examination, the University has implemented Special Examination dates. The Faculty of Health Sciences has set School-specific dates for these Special Examinations. Please speak with your instructor about the date on which the Special Examination for this course will be held.

### **Scholastic Offences**

Scholastic offences are taken seriously and students are directed to read the policy on [Scholastic Discipline for Undergraduate Students](#).

### **Plagiarism**

Student work is expected to be original. Plagiarism is a serious academic offence and could lead to a zero on the assignment in question, a zero in this course, or your expulsion from the university. You are plagiarizing if you insert a phrase, sentence or paragraph taken directly from another author without acknowledging that the work belongs to him/her. Similarly, you are plagiarizing if you paraphrase or summarize another author's ideas without acknowledging that the ideas belong to someone else. All papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and Turnitin.com ([www.turnitin.com](http://www.turnitin.com)).

### **Use of Artificial Intelligence for the Completion of Course Work**

Within this course, you may only use artificial intelligence tools (e.g., “ChatGPT”) in ways that are specifically authorized by the course instructor. All submitted work must reflect your own thoughts and independent written work.

### **Re-submission of Previously Graded Material**

Without the explicit written permission of the instructor, you may not submit any academic work for which credit has been obtained previously, or for which credit is being sought, in another course or program of study in the University or elsewhere.

### **Use of Statistical Pattern Recognition on Multiple Choice Exams**

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.

### **Accessibility Statement**

Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Accessible Education (AE) at 661-2111 x 82147 for any specific question regarding an accommodation or review [The policy on Accommodation for Students with Disabilities](#). If you think you may qualify for ongoing accommodation (e.g. separate room to write exams, flexibility with deadlines, etc.) that will be recognized in all your courses, we encourage you to visit [Accessible Education](#) for more information.

### **Correspondence Statement**

The centrally administered e-mail account provided to students will be considered the individual’s official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at their official university address is attended to in a timely manner. Students are further expected to attend to announcements presented through Brightspace, and to read emails generated in this way.

### **Use of Electronic Devices**

#### **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 electronic devices (e.g., cell phones, tablets, cameras, smart glass, smart watches, or iPods) during ANY tests, quizzes, midterms, examinations, or other in-class evaluations. **These devices MUST either be left at home or with your belongings at the front of the room. They MUST NOT be at your test/exam desk or in your pocket. Any student found with a prohibited device will be referred for investigation of a Scholastic Offence, per the policy listed above. The typical first-offence penalty for possession of a prohibited device is zero on the test or exam.**

#### **During Lectures and Tutorials**

Although you are welcome to use a computer during lecture and tutorial periods, you are expected to use the computer for scholastic purposes only, and refrain from engaging in any activities that may distract other students from learning. From time to time, your professor may ask the class to turn off all computers, to facilitate learning or discussion of the material presented in a particular class.

### **Copyright and Audio/Video Recording Statement**

Course material produced by faculty is copyrighted and to reproduce this material for any purposes other than your own educational use contravenes Canadian Copyright Laws. Unless explicitly noted otherwise, you may not make audio or video recordings of lectures – nor may you edit, re-use, distribute, or re-broadcast any of the material posted to the course website.

### **Contingency Plan for an In-Person Class Pivoting to 100% Online Learning**

In the event of a situation that requires this course to pivot to online content delivery, all remaining course content will be delivered entirely online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on Brightspace for students to view at their convenience). The grading scheme will **not** change. Any remaining assessments will also be conducted online as determined by the course instructor

Note that disruptive behaviour of any type during online classes, including inappropriate use of the chat function, is unacceptable. Students found guilty of Zoom-bombing a class or of other serious online offenses may be subject to disciplinary measures under the Code of Student Conduct.

### **Online Proctoring**

Tests and examinations in this course may 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** (including some biometric data) and the session will be **recorded**. Completion of this course will require you to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including technical requirements, is available on Western's Remote Proctoring website at: <https://remoteproctoring.uwo.ca>.

### **Academic Appeals and Scholastic Offences**

Students can file a **request for relief from academic decisions** if the request is based on one or more grounds listed in the policy. Students can read more about the policy [here](#) and a link to the procedures is listed in the Support Services sections of this document.

Students may **appeal** some academic and scholastic disciplinary decisions by a Dean or their designate, to the Senate Review Board Academic (SRBA). Students can read more about the policy [here](#) and a link to the procedures is listed in the Support Services section of this document.