

Western University
Faculty of Health Sciences
School of Kinesiology

**KIN 2032B - Research Design in Human Movement Science
Winter 2021**

<p>Instructor: Dr. Lindsay Nagamatsu, PhD Office: Arts & Humanities Bldg Rm 3G20 Email: lindsay.nagamatsu@uwo.ca Office Hrs: Zoom - Wednesdays 1:00pm-2:00pm https://westernuniversity.zoom.us/j/95729403746 Meeting ID: 957 2940 3746 Passcode: 193605</p> <p>TAs: Teran Nieman tnieman@uwo.ca Isabella Randall irandall@uwo.ca Siobhan Smith ssmit422@uwo.ca Taylor Sutherland tsuther9@uwo.ca Michelle Wong ywong252@uwo.ca Edwin Zhou gzhou22@uwo.ca</p>	<p>Lectures: Posted on OWL Mondays & Wednesdays at 9:00am Instruction Mode: Online (asynchronous)</p> <table> <tr><td>Lab 002</td><td>Mo</td><td>4:30pm - 6:00pm</td></tr> <tr><td>003</td><td>Mo</td><td>4:30pm - 6:00pm</td></tr> <tr><td>004</td><td>Tu</td><td>7:00pm - 8:30pm</td></tr> <tr><td>005</td><td>Tu</td><td>7:00pm - 8:30pm</td></tr> <tr><td>006</td><td>We</td><td>4:30pm - 6:00pm</td></tr> <tr><td>007</td><td>We</td><td>4:30pm - 6:00pm</td></tr> <tr><td>008</td><td>We</td><td>7:00pm - 8:30pm</td></tr> <tr><td>009</td><td>We</td><td>7:00pm - 8:30pm</td></tr> <tr><td>010</td><td>Th</td><td>7:00pm - 8:30pm</td></tr> <tr><td>011</td><td>Th</td><td>7:00pm - 8:30pm</td></tr> <tr><td>012</td><td>Fr</td><td>8:30am - 10:00am</td></tr> <tr><td>013</td><td>Fr</td><td>8:30am - 10:00am</td></tr> </table> <p>*Note that labs are synchronous</p>	Lab 002	Mo	4:30pm - 6:00pm	003	Mo	4:30pm - 6:00pm	004	Tu	7:00pm - 8:30pm	005	Tu	7:00pm - 8:30pm	006	We	4:30pm - 6:00pm	007	We	4:30pm - 6:00pm	008	We	7:00pm - 8:30pm	009	We	7:00pm - 8:30pm	010	Th	7:00pm - 8:30pm	011	Th	7:00pm - 8:30pm	012	Fr	8:30am - 10:00am	013	Fr	8:30am - 10:00am
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NOTE: All course information including grades, assignment outlines, deadlines, etc. are available via OWL. Check the website regularly for course announcements.

Calendar Course Description (including prerequisites/anti-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.

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 that you have not taken an anti-requisite course.

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/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)

Week	Topics	Schedule & Deadlines
Week 1: Jan. 11-15	Introduction, course outline & policies Scientific method	
Week 2: Jan. 18-22	Ethics Searching the literature	✓Friday Jan. 22 – Quiz 1
Week 3: Jan. 25-29	Evaluating scientific literature Variables & relationships	✓Lab 1
Week 4: Feb. 1-5	Experimental methods Reliability & validity	✓Friday Feb. 5 – Quiz 2
Week 5: Feb. 8-12	Reliability & validity Measurement scales	✓Lab 2 ✓Wednesday Feb 10 – Assignment #1 due at 8pm
Week 6: Feb. 15-19	NO CLASS – READING WEEK	
Week 7: Feb. 22-26	Observational methods	✓Friday Feb. 26 – Quiz 3
Week 8: Mar. 1-5	Non-experimental methods	✓Lab 3 (presentation week)
Week 9: Mar. 8-12	Experimental methods	✓Wednesday March 10 – Assignment #2 due at 8pm ✓Friday March 12 – Quiz 4
Week 10: Mar. 15-19	Conducting experiments Complex study designs	✓Lab 4
Week 11: Mar. 22-26	Complex/other study designs	✓Friday March 26 – Quiz 5
Week 12: Mar. 29-Apr. 2	Summarizing & interpreting data	
Week 13: Apr. 5-9	Applications & knowledge	✓Wednesday April 7 - Final lab assignment due at 8pm ✓Friday April 9 – Quiz 6
Week 14: Apr. 12	Wrap-up	

Course Format:

Lecture: Online, asynchronous. Lectures will be posted on OWL Mondays & Wednesdays at 9:00am.

Labs:	Sec 002	Mon	4:30 pm – 6:00 pm
	Sec 003	Mon	4:30 pm – 6:00 pm
	Sec 004	Tue	7:00 pm – 8:30 pm
	Sec 005	Tue	7:00 pm – 8:30 pm
	Sec 006	Wed	4:30 pm – 6:00 pm
	Sec 007	Wed	4:30 pm – 6:00 pm
	Sec 008	Wed	7:00 pm – 8:30 pm
	Sec 009	Wed	7:00 pm – 8:30 pm
	Sec 010	Thu	7:00 pm – 8:30 pm
	Sec 011	Thu	7:00 pm – 8:30 pm
	Sec 012	Fri	8:30 am – 10:00 am
	Sec 013	Fri	8:30 am – 10:00 am

Labs are run synchronously during your registered lab time. Lab attendance is mandatory and you must attend during your own registered section – this is essential, as there is group work in pre-assigned groups.

If you cannot attend your lab due to an accommodated reason, labs will be recorded and you may watch the recorded lab on your own time. In this case, you must follow up with your TA and group members. If you miss Lab 3 (with accommodation), your final report will be worth 40%.

If you miss a lab without proper accommodation, you will be deducted 10% from your final report mark.

Communication:

Office hours & appointments: If you have questions about course material or would like to discuss issues related to the course in more detail, you can: 1) attend office hours (via Zoom) on Wednesdays from 1:00-2:00pm, 2) Talk to your TAs during lab time, or 3) email us!

EMAIL POLICY

Who to contact for your concerns or questions: If you have a question, please first consult this syllabus and the course website; there is a good chance your question can be answered through these resources, especially regarding course logistics or content (e.g., deadlines, assignments, course materials). If you cannot find an answer to your question on the syllabus or course website, you may contact the instructor or TAs.

Email inquiries to instructor: For all email responses, please permit 24 hours before a response can be expected (i.e., you are unlikely to receive a response the night before a test/assignment). Emails will rarely be answered over the weekend.

Required Course Material/Text:

All course materials will be provided via OWL.

Course Evaluation:

Assignments are due as stated in the course syllabus and will not be accepted late, except under medical or other compassionate circumstances. Submitting a late assignment without appropriate documentation will result in a zero (0) grade. A missed mid-term examination, without appropriate documentation will result in a zero (0) grade. Acceptable reasons might include hospital stays, serious illness, family emergencies (like serious accidents, illness or death) or similar circumstances

1. Quizzes	30%
2. Group presentation (Lab)	10%
3. Grant proposal (Lab)	30%
4. Assignments	30%

1. *Quizzes (30%)*: There will be SIX quizzes throughout the semester, worth 5% each. These will be completed on OWL and will take place on Fridays (see schedule). The quizzes will be cumulative, but will focus on the material from the past 2 weeks. **If you miss a quiz due to an accommodated reason or self-reported absence: There is NO makeup. Your other quizzes will be re-weighted.**

2. *Group presentation (10%)*: Along with your lab group members, you will present your research proposal to your lab section. A rubric will be provided ahead of time.

3. *Grant proposal (30%)*: You will individually submit a written grant proposal based on your lab work. A rubric will be provided ahead of time.

4. *Assignments (30%)*: There will be TWO written assignments throughout the semester, worth 15% each. These will be submitted via OWL. A rubric will be provided ahead of time.

Course/University Policies

1. Statement on Use of Personal Response Systems (“Clickers”)

If Personal Response Systems (“Clickers”) are used in the course, a reference to the Guidelines for their use (Guidelines are shown below). Instructors are to communicate clearly to students information on how clickers are used including: how the student’s privacy will be protected, how clickers may be used by the instructor for data gathering and for evaluating the students, and why they cannot be used by anyone but the student (since the students involved in misuse of a clicker may be charged with a scholastic offence).

2. **Academic offences**: They are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site: https://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf

A) Students must write their essays and assignments in their own words. Whenever students take an idea, or a passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence (see Scholastic Offence Policy in the Western Academic Calendar). All required 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 for such checking 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 <http://www.turnitin.com>

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-class evaluations: cellphones, smart phones, smart watches, smart glasses, audio players or recorders of any sort, video cameras, video games, DVD players, televisions, laptop/notebook/netbook computers, flashlights or laser pointers.

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. Please be respectful to your fellow students and turn the sound off. If the professor receives complaints from other students regarding noise or other disruptive behavior (e.g. watching videos on YouTube.com, updating your Facebook status, playing Solitaire), your classroom privileges will be revoked. 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. **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.**

4. Health and Wellness:

Information regarding health and wellness-related services available to students may be found at <http://www.health.uwo.ca/>.

Students who are in emotional/mental distress should refer to Mental Health@Western (<http://www.health.uwo.ca/>) for a complete list of options about how to obtain help.

5. Support Services

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

1. *Student Development Centre* -- <http://www.sdc.uwo.ca/ssd/>
2. *Student Health & Wellness* -- <http://www.health.uwo.ca/>
3. *Registrar's Office* -- <http://www.registrar.uwo.ca/>
4. *Ombudsperson Office* -- <http://www.uwo.ca/ombuds/>

6. Documentation for Academic Accommodation (Illness, Medical/Non-Medical Absences):

http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_12

Students who experience an extenuating circumstance (illness, injury, or other extenuating circumstance) sufficiently significant to temporarily render them unable to meet academic requirements may submit a request for academic consideration through the following routes:

- (i) Submitting a Self-Reported Absence (see below for conditions)
- (ii) For medical absences exceeding 48 hours, submitting a Student Medical Certificate (SMC) signed by a licensed medical or mental health practitioner to their Academic Counselling in their Faculty of registration in order to be eligible for Academic Consideration; or
- (iii) For non-medical absences exceeding 48 hours, submitting appropriate documentation (e.g., obituary, police report, accident report, court order, etc.) to Academic Counselling in their Faculty of registration in order to be eligible for academic consideration. Students are encouraged to contact their Academic Counselling unit to clarify what documentation is appropriate.

Students seeking academic consideration **must communicate with their instructors no later than 24 hours** after the end of the period covered by either the self-reported absence or SMC, or immediately upon their return following a documented absence.

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-reported absences will not be allowed for scheduled final examinations; for midterm examinations scheduled during the December examination period; or for final lab examinations scheduled during the final week of term;

g. Self-reporting may not be used for assessments (e.g. midterm exams, tests, reports, presentations, or essays) worth more than 30% of any given course;

For medical and non-medical absences that are not eligible for self-reporting Kinesiology students must submit an Academic Consideration Request form found online https://www.uwo.ca/fhs/kin/undergrad/files/accommodation_request.pdf in addition to an SMC or appropriate documentation in the event of a non-medical absence. These documents will be retained in the student's file, and will be held in confidence in accordance with the University's Official Student Record Information Privacy Policy.

7. **Grades:** Where possible assignment objectives and rubrics will be posted on OWL. Should you have a concern regarding the grade you received for an assignment or feel that it is unfair in any way, you must wait 24 hours from the receipt of the assignment to approach the instructor or TA. In doing so, please make an appointment and prepare in writing, with evidence, why you feel your grade is inappropriate. Please be aware that in requesting a grade reassessment, your grade could go up/down/or stay the same. Note that calculations errors (which do occur!) should be brought to my attention immediately.

At least three days prior to the deadline for withdrawal from a 1000- or 2000-level course without academic penalty, students will receive assessment of work accounting for at least 15% of the final grade.

March 7th, 2021 (for second term half-or full year courses)

A+	90-100	<i>One could scarcely expect better from a student at this level</i>
A	80-89	<i>Superior work that is clearly above average</i>
B	70-79	<i>Good work, meeting all requirements and eminently</i>
C	60-69	<i>Competent work, meeting requirements</i>
D	50-59	<i>Fair work, minimally acceptable.</i>
F	below 50	<i>Fail</i>

Rounding of Grades (for example, bumping a 79 to 80%):

This is a practice some students request. **This practice will not occur here.** The edges of this course are clear and sharp. The mark attained is the mark you achieved and the mark assigned; 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".

8. **Classroom Behaviour:** Class will begin promptly at the time specified at the top of page one of 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

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 under special circumstances. Please contact the instructor if you have any concerns related to session 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.