

The University of Western Ontario
Faculty of Health Sciences
School of Kinesiology

KIN 2032B

Welcome to
Research Design in Human Movement Science!

January 2017

Instructor: Emily Knight, PhD, MPT, CSEP-CEP®
Email: eknigh2@uwo.ca
Office Room Number: TBD
Office Hours: Virtual, or by appointment (as available around my clinical schedule)
Course schedule: Lectures Mondays & Wednesdays, 8:30-9:30am,
Natural Sciences Building, Room 145

Labs Mondays, 4:30-6:00pm, SSC-1032
Tuesdays, 7:00-8:30pm, HSB-14
Wednesdays, 4:30-6:00pm, HSB-13
Wednesdays, 7:00-8:30pm, HSB-16
Thursdays, 7:00-8:30pm, HSB-16
Fridays, 8:30-10:00am, HSB16

Teaching Assistants: Janice Grey, jgrey4@uwo.ca
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PREREQUISITE CHECKING

Unless you have either the requisites for this course or written special permission from your Dean to enrol 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.

Refer to the Western Academic Calendar at www.westerncalendar.uwo.ca to ensure your prerequisites and/or antirequisites for this course are correct.

COURSE INFORMATION

Calendar course description: 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 commonly employed in movement science.

My Course Description: This course is intended to provide you with an overview of the research process as it relates to the evidence base in Kinesiology. We will be focusing on common research designs, data collection procedures, and statistical analyses. In this course, we will critically examine examples of research with attention to appraising the quality of the study and the evidence it creates. This course will involve both face-to-face lectures and online learning via OWL: you are expected to be present and participate in both formats.

Learning Objectives: The goal of this course is to gain a foundational knowledge of research methodologies commonly employed in human movement science through an understanding of common qualitative and quantitative approaches to design and data collection, developing and refining skills of critical appraisal, and synthesizing this knowledge through written and oral assignments. Therefore, through this course the learner will:

1. Describe the research process
2. Compare and contrast different types of research, including methodological issues
3. Demonstrate appropriate selection and interpretation of common statistical analyses
4. Critically appraise existing evidence, with a focus on the conclusions drawn based on the design, data collected and analysis employed
5. Communicate knowledge through written (e.g. assignments, tests, exams) and oral (e.g. presentation, answering questions, VoiceThread) formats

Attendance & Participation: Learners are expected to attend and participate in lectures and labs. As a class, we have the right to a creative and respectful learning environment that promotes knowledge acquisition and skill mastery. To achieve this, we have the collective responsibility to engage in behaviours that demonstrate respect for and collaboration with our fellow learners and teachers. This includes:

- *Punctuality* - arrive prior to the start of a lecture and, when required, enter or exit lectures quietly and discretely so as not to disrupt your colleagues.
- *Nourishment* - as needed to sustain learning throughout lectures and labs (as appropriate) in a manner that is not disruptive to your colleagues. This includes consuming lidded beverages and

'quiet' food, and disposing of any waste in the bins provided to keep our learning environment clean.

- *Technology* - using personal technologies, such as phones and laptops, quietly and in a manner that enhances, not detracts from, the learning environment. For example, ensure that phones do not make audible noise during class (i.e. set ringers to silent –not vibrate- mode) and that conduct on mobile devices is not disruptive to peers (i.e. seek out information related to course materials and learning objectives unobtrusively).
 - *Note:* If I notice disruptive behaviour or receive complaints from your peers, your privileges for technology in the classroom will be revoked.

Course Materials

There is no required textbook or reference material for this course. Necessary course information will be posted to OWL. Students are encouraged to seek resources to supplement their learning.

Lecture & Lab Schedule - See OWL

Evaluation - Full description of evaluation criteria is available in OWL.

Labs (30%)

- There are a total of 3 labs you must attend for this course (see schedule posted in OWL), each worth 10% of your final grade. Lab assignments will be posted prior to the start of lab, and are to be completed individually during the lab.
- Punctuality is expected: latecomers to lab may not be permitted to enter, resulting in a grade of zero (0) for that lab's assignment.

Exams (50%)

- Exam format is multiple choice, and may include discrete knowledge, matching, cases, true/false
1. Mid-term will occur during class time (20%)
 2. Final exam will be scheduled during the April exam block (date TBD) (30%). The final is cumulative.

Participation (20%)

- During lecture you will be assigned opportunities to participate via OWL throughout the semester. You will be graded for each opportunity based on completion plus evidence of an

honest effort (i.e. not necessarily on the 'right' answer/outcome). Details will be provided during lectures.

Statement on Use of Electronic Devices

The use of electronic & communication devices (e.g. laptop, cell phone, etc) is prohibited during tests, including weekly quizzes and the final exam.

Learners are permitted to use technology during lectures to assist with learning. However learners are encouraged to use technology respectfully and responsibly so as not to interfere with other's learning.

Recording of lectures (e.g. audio, video) is prohibited.

ADDITIONAL STATEMENTS

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 The University of Western Ontario, 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 <http://www.uwo.ca/univsec/board/code.pdf>.

English Proficiency for the Assignment of Grades

Visit the website <http://www.uwo.ca/univsec/handbook/exam/english.pdf>.

Accommodation for Medical Illness or Non-Medical Absences

http://www.uwo.ca/univsec/handbook/appeals/accommodation_medical.pdf

The University recognizes that a student's ability to meet his/her academic responsibilities may, on occasion, be impaired by medical illness. Illness may be acute (short term), or it may be chronic (long term), or chronic with acute episodes. The University further recognizes that medical situations are deeply personal and respects the need for privacy and confidentiality in these matters. However, in order to ensure fairness and consistency for all students, academic accommodation for work representing 10% or more of the student's overall grade in the course shall be granted only in those cases where there is documentation indicating that the student was seriously affected by illness and could not reasonably be expected to meet his/her academic responsibilities.

A UWO Student Medical Certificate (SMC) is required where a student is seeking academic accommodation. This documentation should be obtained at the time of the initial consultation with the

physician or walk-in clinic. An SMC can be downloaded under the Medical Documentation heading of the following website: <https://studentservices.uwo.ca/secure/index.cfm>.

Documentation is required for non-medical absences where the course work missed is more than 10% of the overall grade. Students may contact their Faculty Academic Counselling Office for what documentation is needed.

Whenever possible, students who require academic accommodation should provide notification and documentation in advance of due dates, examinations, etc. Students must follow up with their professors and their Academic Counselling office in a timely manner. Documentation for any request for accommodation shall be submitted, as soon as possible, to the appropriate Academic Counselling Office of the student's Faculty of registration.

Scholastic Offences

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following website: http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf.

Additionally,

1. 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 The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>).
2. 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.

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 -- <http://www.shs.uwo.ca/student/studenthealthservices.html>
3. Registrar's Office -- <http://www.registrar.uwo.ca/>
4. Ombuds Office -- <http://www.uwo.ca/ombuds/>

Final Examination Conflict Policy

A student who is scheduled to write more than two examinations in any 24-hour period may request alternative arrangements through the office of their Academic Counsellor. This policy does not apply to mid-term examinations.

Absences & Lateness

Assignment submission criteria and deadlines are included in the assignment descriptions in OWL. Submitting a late assignment without appropriate documentation will result in a zero (0) grade. Appropriate documentation for assignments worth less than 10% should be submitted to the Undergraduate office. A missed mid-term examination without appropriate documentation will result in a zero (0) grade. There will be no make-up for mid-term examinations. Students who miss a mid-term exam with a valid reason will have the final examination re-weighted accordingly. The School's policy is not to allow make-ups for scheduled midterms, presentations, or final exams, nor to assign a grade of Incomplete without acceptable and verifiable medical (or equivalent compassionate) reasons. Acceptable reasons might include hospital stays, serious illness, family emergencies (like serious accidents or illness, death) or similar circumstances.