Western University  
Faculty of Health Sciences  
School of Kinesiology

KIN 2032B - Research Design in Human Movement Science  
Winter 2019

Instructor: Michael Robinson  
Office: HSB 222  
Email: mrobin7@uwo.ca  
Office Hrs: By appointment

TAs: TBD

Lectures: MoWe 8:30am - 9:30am  
Room: Natural Sci Centre Rm 1

Lab 002 Mo 4:30pm - 6:00pm ~SH 3305  
003 Mo 4:30pm - 6:00pm ~SH 3307  
004 Tu 7:00pm - 8:30pm ~SH 3305  
005 Tu 7:00pm - 8:30pm ~SH 3307  
006 We 4:30pm - 6:00pm ~SH 3305  
007 We 4:30pm - 6:00pm ~SH 3307  
008 We 7:00pm - 8:30pm ~SH 3305  
009 We 7:00pm - 8:30pm ~SH 3307  
010 Th 7:00pm - 8:30pm ~SH 3305  
011 Th 7:00pm - 8:30pm ~SH 3307  
012 Fr 8:30am - 10:00am ~UCC 59  
013 Fr 8:30am - 10:00am ~UCC 58

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 enrol 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.

My Course Description
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. Collect and analyze data in a lab assignments

Schedule (Subject to change)

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Wednesday</th>
<th>Lab</th>
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</thead>
<tbody>
<tr>
<td>WEEK 1</td>
<td>Course Overview, Introduction to Research</td>
<td>Introduction to Research</td>
<td>NONE</td>
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<tr>
<td>WEEK 2</td>
<td>Asking Good Questions</td>
<td>Asking Good Questions</td>
<td>Intro Lab</td>
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<tr>
<td>WEEK 3</td>
<td>The Role of Theory in Good Research</td>
<td>The Role of Theory in Good Research</td>
<td>Forming Good Research Questions</td>
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<tr>
<td>WEEK 4</td>
<td>Theoretical and Practical Aspects of Ethical Research</td>
<td>Theoretical and Practical Aspects of Ethical Research</td>
<td>Role of Theory in Good Research</td>
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<td>WEEK 5</td>
<td>Theoretical and Practical Aspects of Ethical Research</td>
<td>Review</td>
<td>None</td>
</tr>
<tr>
<td>WEEK 6</td>
<td>Basics of Qualitative Research</td>
<td>Basics of Qualitative Research</td>
<td>Theoretical and Practical Aspects of Ethical Research</td>
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<tr>
<td>WEEK 7</td>
<td>READING WEEK</td>
<td></td>
<td>NONE</td>
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<tr>
<td>WEEK 8</td>
<td>Basics of Qualitative Research</td>
<td>Basics of Qualitative Research</td>
<td>Basics of Qualitative Research</td>
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<tr>
<td>WEEK 9</td>
<td>Basics of Test Construction and Psychometrics</td>
<td>Basics of Test Construction and Psychometrics</td>
<td>Basics of Qualitative Research</td>
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<td>WEEK 10</td>
<td>Basics of Test Construction and Psychometrics</td>
<td>Basics of Test Construction and Psychometrics</td>
<td>Basics of Test Construction and Psychometrics</td>
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<td>WEEK 11</td>
<td>Bias and Error</td>
<td>Bias and Error</td>
<td>Basics of Test Construction and Psychometrics</td>
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<tr>
<td>WEEK 12</td>
<td>Describing Data</td>
<td>Describing Data</td>
<td>Bias and Error</td>
</tr>
<tr>
<td>WEEK 13</td>
<td>Basics of Statistical Inference</td>
<td>Basics of Statistical Inference</td>
<td>Describing Data</td>
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Required Course Material/Text:

The recommended free, online textbooks for this course are available here:
https://openstax.org/details/books/introductory-statistics
The recommended physical textbook for this course is available at the campus bookstore:


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.

Midterm 40% Feb 7th 7:00 pm – 9:00 pm (location TBD)

Final Exam 40%

Lab Assignments 20% (10 x 2%)
Attendance at labs are mandatory and lab assignments are due same day at the end of the lab. Missed labs due to illness will be accommodated by attending another lab session or via an alternative make-up assignment.

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/](http://www.health.uwo.ca/).

Students who are in emotional/mental distress should refer to Mental Health@Western ([http://www.health.uwo.ca/](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/ssa](http://www.sdc.uwo.ca/ssa)

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](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.

- November 9th, 2019 (for first term half-courses)
- November 27th, 2019 (for full-year courses)
- March 4th, 2020 (for second term half-or full year courses)

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<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Description</th>
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<tbody>
<tr>
<td>A+</td>
<td>90-100</td>
<td>One could scarcely expect better from a student at this level</td>
</tr>
<tr>
<td>A</td>
<td>80-89</td>
<td>Superior work that is clearly above average</td>
</tr>
<tr>
<td>B</td>
<td>70-79</td>
<td>Good work, meeting all requirements and eminently</td>
</tr>
<tr>
<td>C</td>
<td>60-69</td>
<td>Competent work, meeting requirements</td>
</tr>
<tr>
<td>D</td>
<td>50-59</td>
<td>Fair work, minimally acceptable.</td>
</tr>
<tr>
<td>F</td>
<td>below 50</td>
<td>Fail</td>
</tr>
</tbody>
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**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](https://www.uwo.ca/univsec/pdf/board/code.pdf)