

School of Kinesiology  
Faculty of Health Sciences  
Western University

SENIOR RESEARCH PROJECT

Kin 4443

Fall - Winter

Course Manager: J.M. Kowalchuk  
Office Hours: by appointment

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Course Description:

Independent research project in Kinesiology, involving experimental design, presentation of proposal, collection and analysis of data, presentation of results and final written report as a scientific paper.

This laboratory-based research course is restricted to 4<sup>th</sup> year students enrolled in the Honours BSc Kinesiology programme. Enrolment is limited and will depend on the availability of individual faculty members and their willingness to act as a research supervisor. Students must get written approval from one of the designa

scientific information in the form of seminar presentations and research reports, respectively.

2. perform the experimental procedures and operate scientific equipment relevant to the research project.
3. search for, critically review and synthesize information from published literature
4. understand and explain, in more detail, the specific physiological, metabolic and/or

### General course information:

1. Presentation length - 10-15min with 5-10 min for questions
2. Student presentations - may take place over 2 or more days depending on the number of students enrolled
3. Research Presentation dates and times - TBD - dependent on availability of students and faculty supervisors - but usually complete early- to mid-November in the 1<sup>st</sup> term, and before the final day of classes in the 2<sup>nd</sup> term (usually mid- to late-March or early April)
4. Abstract deadline - TBD but approximately 1 week before 2<sup>nd</sup> term presentations in March
5. Final research report - TBD but approximately 1 week after 2<sup>nd</sup> term presentations (on or before final day of classes in April)

### Abstract and Final Research Paper:

- Abstract: Copies of the project abstracts should be submitted to the Kin 4443 course coordinator approximately one week before the 2<sup>nd</sup> term presentations (usually held in late March or early April). The supervisor and other faculty supervisors will mark and provide feedback on the abstract. A revised abstract will be submitted within a week and all abstracts will be sent out to all Kin 4443 students and supervisors prior to the final presentation. The format of the abstract will follow guide for "preparing an abstract" used by the American College of Sports Medicine (to be discussed).

- Final Research Paper: The final research report should be submitted to the Kin 4443 course coordinator at the end of the 2<sup>nd</sup> term (date TBD but usually 1-2 weeks after the 2<sup>nd</sup> term presentation and on or before the final day of classes). Depending on the number of students enrolled in the course, the final research paper will be marked by the faculty supervisor and one (or more) of the other course supervisors. Students will submit one copy of the final research report to the Kin undergraduate office. Students will be informed as to whether to submit a paper copy or an e-copy of the final research report to the course coordinator.

-- The final research paper should be written in "manuscript style" and include the following sections: Abstract, Introduction, Methods, Results, Discussion, References - i.e., as if you were submitting your research for publication to a journal commonly used by your supervisor (e.g., American Journal of Physiology; Applied Physiology, Nutrition and Metabolism; European Journal of Applied Physiology; Journal of Applied Physiology; Journal of Biomechanics; Journal of Physiology; Medicine and Science in Sports and Exercise).

-- The final research paper should be formatted as follows (details subject to change each year):

- length not to exceed 15 pages (this limit does not include title page, figures, tables, and references)
- typed, double-spaced
- margins (top, bottom, sides) should be 2.54 cm
- Arial or Times New Roman font, with 12 pt font size
- tables and figures can be appended at the end of the Results section or at the end of the manuscript - do not embed them into the body of the Results section