# School of Kinesiology Faculty of Health Sciences Western University

## SENIOR RESEARCH PROJECT Kin 4443 ( Fall, 2016 - Winter, 2017

Course Manager: J.M. Kowalchuk Office: HSB 411C

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## Course Description:

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

- scientific information in the form of seinar presentations nell research reports, respectively.
- 2. perform the experimental procedures and **dpdhæ** scientific equipment relevant to the research project.
- 3. search for, critically review and rathesize information from ublished literature
- 4. understand and explain, in more dettile specific physiological, metabolic and/or biomechanical system(s) relevant to the research area
- 5. organize and communicats earch findings via oral prestations and written reports

### Prerequisites:

- enrolment is limited to Honours BSc Kinelsigy students (Honours Bstudents are eligible to enrol with permission from the potential research supervisor)
- permission of a Kinesiology-approved restarupervisor & Director of the School
- preference will be give to studentish an academic average 80% and above
- minimum of 10 hr per weethroughout the academic year

### Course Format:

Research based course working laboratory of a Kinesiogny-approved supervisor. Students (and faculty) will meet occasionally during thear for both formal (e.g., preliminary research proposal; final presentation of quect) and informal presentatis and information sessions. Dates and times will be arranged as needed.

#### Course Evaluation:

Students will be evaluated by their supervisor webspect to their perforance in the laboratory. This will include not only technical skills, butspl their familiarity with the literature, and their contribution to the experimental design, analyzing interpretation of the tata. This evaluation will be done at the end efach of the fall and winter terms. Abstract and a final research paper will be evaluated by the immediate faculty superv and one other faculty member. Feedback will be given to students as soon as 0141 Tw [tl TD, ts as nd. s a

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### General course information:

- 1. Presentation length 10-15mwith 5-10 min for questions
- 2. Student presentations may take place 2 voer more days depending on the number of students enrolled
- 3. Research Presentation dates and times --Tobe pendent on availability of students and faculty supervisors but usually completic early- to mid-November in the term, and before the final day of classes in the 2nd term (ulsua mid- to late-March or early April)
- 4. Abstract deadline TBD bapproximately 1 week before 2erm presentations in March
- 5. Final research report TBD bathproximately 1 week after term presentations (on or before final day of classes in April)

### Abstract and Final Research Paper:

- Abstract: Copies of the project abstracthosald be submitted to the Kin 4443 course coordinator approximately one week before the arm 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 in a week and all abstacts will be sent out to all Kin 4443 students and supervisor to the final presentati. 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 submitted to the Kin 4443 course coordinator at the end of the 2term (date TBD but usually 1-2 weeks after the 12term presentation and on or before the final dayclasses). Depending one number of students enrolled in the course, the final research payoilable marked by the faculty supervisor and one (or more) of the other course supervisors.ud Stats will submit one copy of the final research report to the Kin undergraduate of the Students will be informed to whether to submit a paper copy or an e-copy of the final research port to the course coordinator.
- -- The final research paper should be writther "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 Scient in Sports and Exercise).
- -- The final research paper should be formattered laws (details subjects change each year):
- length not to exceed 15 pages (this limit does include title page, figures, tables, and references)
- typed, double-spaced
- margins (top, bottom, sides) should be 2.54 cm
- Arial or Times New Romanofit, with 12 pt font size
- tables and figures can be appended at thoteoff the Results section at the end of the manuscript do not embed them into the body of the Results section