

RESEARCH PROJECT APPLICATION
Kinesiology 4490E

Student's Name: _____ Student #: _____

UWO Email Address: _____

Name of Supervisor: _____

Describe your study proposal which includes your area of research, a description of your study, the course objectives, and research methods.

Student Time commitment: _____

STATEMENT OF RECOGNITION: (Student)

I have read the detailed course outline and understand and accept the structure & evaluation system.

Student Signature

Date

APPROVAL

Supervisor Signature

Date

Director of Kinesiology

Date

INSTRUCTIONS TO STUDENT:

Email the completed form with Supervisor's signature to wmandigo@uwo.ca by September 10. Once approved by the Director of Kinesiology, you must formally add the course no later than the approved Add deadline date.

You must provide a copy of the final written research report to the Undergraduate Office via email to wmandigo@uwo.ca by the last day of classes in April.

INSTRUCTIONS TO SUPERVISOR:

1. Final marks are to be submitted to the Undergraduate Office one week after the end of classes.
2. No grade can be submitted for incomplete work.

School of Kinesiology
Faculty of Health Sciences
Western University

SENIOR RESEARCH PROJECT
Kinesiology 4490E

Course Description

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

Course Summary

1. The goal of this course is to provide a student with the opportunity to conduct a research project under the supervision of a Kinesiology faculty member. Projects may cover a variety of designs and topics including, but not limited to, program design, experimental design, historical reviews, analysis of current sport/physical activity/health topics, health promotion, and empirical research involving human subjects.
2. While the form and format of the project is to be determined by the supervisor and the student, empirical research should include the development of the research question(s), the design of the study, completion of ethics and development of the human participants (where necessary), participant recruitment and data collection, analysis and completion of the final report.
3. KIN 4490E is not an opportunity to gain credit for volunteer work in a research/teaching lab.
4. KIN 4490E project must be supervised by a Kinesiology faculty member. The following Faculty members are eligible to accept students (Note: Faculty members may choose not to accept students in any given year):

Socio-cultural area:

Dr. A. Doherty
Dr. L. Misener
Dr. A. Ali
Dr. E. Pila

Dr. D. Howe
Dr. A. Schneider
Dr. G. Teare
Dr. K. Esmonde
Dr. M. Driediger

Bioscience area:

Dr. M. Heath
Dr. C. Rice
Dr. K. Fewster
Dr. M. Mottola
Dr. L. Nagamatsu
Dr. A. Christie
Dr. T. Jenkyn
Dr. K. Boldt

Dr. S. McWatt
Dr. K. Shoemaker
Dr. M. Mitchell
Dr. D. Humphreys
Dr. D. Keir
Dr. J. Melling
Dr. D. Pamukoff

5. Projects are restricted to Kinesiology students who are in their fourth year of study.
6. Before a student can be registered in KIN 4490E, a contract must be completed and signed by the student, the supervising faculty member and the Director of Kinesiology.
7. Students cannot receive remuneration for work completed as part of the KIN 4490E experience.
8. In the case where human participants are involved, Western Research Ethics specifies that ethics approval must be obtained prior to any data collection, as outlined in the University Policy statement at <http://www.rcr.ethics.gc.ca/eng/policy-politique/framework-cadre/>.

Course Procedures

1. Students must contact an appropriate Kinesiology faculty member to discuss their proposal, faculty expectations, completion date, and evaluation. Preference will be given to students with an academic average of 80% and above.
2. Once a verbal arrangement has been made, a KIN 4490E contract should then be signed by the supervising faculty member and the student and submitted to Wendy Hacon by email (wmandigo@uwo.ca). Faculty members are encouraged NOT to participate in KIN 4490E projects until the contract has been signed.
3. Once the Contract has been signed by the student, the supervising faculty member, and the Director of Kinesiology, special permission will be added to the student's record and they will be able to enrol themselves in the course.
4. Students are advised to meet regularly with their supervisor during the term.
5. A minimum of 10 hours per week will be devoted to the research project throughout the academic year.
6. Final grades should be submitted by the supervising faculty member to the Course manager no later than April 15th.

Learning Outcomes

This research project is intended to provide students with a research experience in Kinesiology. Following completion of this course, students will be able to:

1. Develop independent and/or collaborative research skills in a specific area of Kinesiology where the project includes literature review; experimental design; collection, analysis and interpretation of collected data; and oral and written communication of scientific information in the form of seminar presentations and research reports, respectively.

2. Critically review and synthesize scholarly literature in the area to identify knowledge gaps for further exploration.
3. Perform the experimental procedures and operate the scientific equipment relevant to the research project.
4. Understand and explain, in more detail, the specific theoretical positioning relevant to the research area.
5. Determine an appropriate approach for examining the research question identified in conjunction with supervisor.
6. Organize and communicate research findings via oral presentations and a written report.

Course Format

Students (and faculty) will meet occasionally during the year for both formal (e.g., preliminary research proposal; final presentation of project) and informal presentations and information sessions. Dates and times will be arranged as needed.

Course Evaluation

Students will be evaluated by their supervisor with respect to their performance in the research project/laboratory. This will include not only technical skills, but also their familiarity with the literature, and their contribution to the experimental design, analysis, and interpretation of the data. This evaluation will be done at the end of each of the fall and winter terms. An abstract and a final research paper will be evaluated by the immediate faculty supervisor and one other faculty member. Feedback will be given to students as soon as possible after presentations. Student participation in the discussion sessions, and in the question period after each student presentation is expected and required. All faculty will participate in the evaluation of student presentations. The presentations will be done with all students and faculty in attendance (dates and times will be arranged after consultation with students and faculty).

Details of the (suggested) evaluation are outlined below (subject to change each year):

<u>Activity</u>	<u>Weight</u>	<u>Evaluator(s)</u>
Research/Lab performance (1 st term)	15%	Supervisor
Research proposal presentation (1 st term; TBD)	5%	Course Manager
Research/Lab performance (2 nd term)	15%	Supervisor
Final presentation (2 nd term; March TBD)	15%	All faculty
Final research paper (due April TBD)	50%	Supervisor & other faculty

Notes:

1. A similar project cannot be completed as part of an independent study
2. **A copy of the final report must be submitted to the Undergraduate office – send by email to wmandigo@uwo.ca**

General course information

1. Final presentation length - 10-15 min with 5-10 min for questions
2. Student presentations - may take place over two 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 completed in early- to mid-November in the 1st term, and before the final day of classes in the 2nd term (usually in mid- to late-March or early April)
4. Final research report - TBD but approximately 1 week after 2nd term presentations (on or before the final day of classes in April)

Final Research Paper

The final research report should be submitted to the Kin 4490E Course Manager at the end of the 2nd term (date TBD but usually 1-2 weeks after the 2nd term presentation and on or before the final day of classes). The final research paper will be marked by the faculty supervisor. Students will submit one copy of the final research report to the Kinesiology 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 Manager.

The final research paper should be written in “manuscript style” and include the following sections as if you were submitting your research for scholarly publication to a journal commonly used by your supervisor in the related field. (i.e. Abstract, Introduction, Methods, Results, Discussion, References).

Also, either at the beginning or the end of the paper, it is important that you provide a paragraph which defines/describes/details your role in this project, and the role of the other co-authors that you may include on your paper. In other words, what exactly you did do for this project and how did the other authors support your work in this thesis.

The final research paper should be formatted as follows:

1. Length 10 - 25 pages (this limit does not include title page, figures, tables, and references)
2. Typed, double-spaced
3. Margins (top, bottom, sides) should be 2.54 cm (1")
4. Arial or Times New Roman font, with 12-point font size
5. 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
6. References may conform to either APA or Chicago Style as per the convention of the journal of target submission.