NORTHWESTERN POLYTECHNIC

DEPARTMENT OF KINESIOLOGY AND HEALTH SCIENCES

COURSE OUTLINE – Winter 2025

PE2190 (A3): Research Methods in Kinesiology – 3 (3-0-0) UT 45 Hours for 15 Weeks

Northwestern Polytechnic acknowledges that our campuses are located on Treaty 8 territory, the ancestral and present-day home to many diverse First Nations, Metis, and Inuit people. We are grateful to work, live and learn on the traditional territory of Duncan's First Nation, Horse Lake First Nation and Sturgeon Lake Cree Nation, who are the original caretakers of this land.

We acknowledge the history of this land and we are thankful for the opportunity to walk together in friendship, where we will encourage and promote positive change for present and future generations.

INSTRUCTOR:	Dr. Brye McMorran	**PHONE:**	780-539-2971
OFFICE:	K215	**E-MAIL:**	bmcmorran@nwptech.ca
OFFICE HOURS:	By appointment		

CALENDAR DESCRIPTION: The course presents a method of quantitative and qualitive analysis of human movement based on a knowledge of biomechanical principles.

Commented [LW1]: This does not match the calendar description online:
This course will provide an introduction to research methods used in the field of kinesiology. Emphasis will be placed on the application of research technique commonly used in the discipline.

PREREQUISITE(S)/COREQUISITE: PE1090

REQUIRED TEXT/RESOURCE MATERIALS:

Kowalski, K.C., McHugh, T.L.F., Sabiston, C., and Ferguson, L.J. (2018). Research Methods in Kinesiology. 2nd edition, Oxford University Press. ISBN: 9780199037643.

DELIVERY MODE(S): This course will be delivered through a variety of lecture-based strategies including discussions, group work, in-class activities, labs, and individual student work.

LEARNING OUTCOMES: By the end of the course, students will be able to:

- Critically appraise original research articles based on criteria such as rigor, internal consistency, novelty, relevance, and ethical considerations.

- Differentiate between research paradigms (such as qualitative, quantitative, and mixed methods) and understand their relationship to research design.
- Conduct thorough and rigorous literature reviews.
- Identify research ideas and transform them into clear and specific research questions.
- Evaluate the source, content, and empirical basis of a scientific claim.
- Recognize the importance of research ethics and research integrity.

TRANSFERABILITY:

Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at the Alberta Transfer Guide main page http://www.transferalberta.alberta.ca.

** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. **Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability.**

EVALUATIONS:

Assessment	%	Due Date
Midterm	25	28-Feb
Exam	30	TBD
Ethics assignment	10	31-Jan
Project 1	10	07-Mar
Project 2	20	31-Mar
Participation	5	Throughout semester

GRADING CRITERIA:

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	95-100	C+	2.3	67-69
A	4.0	85-94	C	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	D+	1.3	55-59
B	3.0	73-76	D	1.0	50-54

B-	2.7	70-72		F	0.0	00-49

COURSE SCHEDULE/TENTATIVE TIMELINE:

Lectures

Monday 1:00 - 2:20 pm

Friday 11:30 - 12:50 pm

The instructor reserves the right to alter the pace, scope, and/or breadth of the topics covered to facilitate student learning and to cohere with the natural flow of class -discussions.

Week	Date	Topic
1	Jan 6-10	Course Introduction and Introduction to Research
2	Jan 13-17	Research Questions
3	Jan 20-24	Research Ethics
4	Jan 27-31	Literature Reviews/Study Designs
5	Feb 3-7	Study Designs
6	Feb 10-14	Study Designs
7	**Feb 17-21**	**BREAK**
8	Feb 24-28	Review/Midterm
9	Mar 3-7	Study Designs Analysis
10	Mar 10-14	Mixed Methods
11	Mar 17-21	Particiaptory Research
12	Mar 24-28	Evaluating Research/Knowledge Translation
13	Mar 31-Apr4	Knowledge Translation/Knowledge Translation
14	Apr 7-Apr 11	Review
15	**Apr 14-23**	**EXAM PERIOD**

STUDENT RESPONSIBILITIES:

Students are expected to come to class prepared and regular attendance is critical to succeed in this class. Students should contact the instructor in advance if they are unable to attend. It is the student's responsibility to acquire any materials and content missed due to absence.

Lectures/Slides will be provided to students in a format of the instructors choosing. You may not always receive complete slides or there may be alterations to the ones posted. It is the student's job to ensure they are taking appropriate notes.

Refer to Northwestern Polytechnic policy on the Student Rights and Responsibilities on the NWP website.

All assignments are expected to be submitted on the due date. Late assignments will be deducted 10% per day up to 5 days late. After 5 days late, assignments will not be accepted and receive a grade of 0. Each day will consist of the 24-hour period following the due date, including weekdays and weekends. Valid reasons for submission of late assignments as well as absence from labs, tests, midterm exam need to be communicated to the instructor as soon as possible and are limited to:

- Medical emergencies (physician note may be required)
- Death in the immediate family (death certificate may be required)
- Other significant occurrences (some form of documentation may be required)

STATEMENT ON ACADEMIC MISCONDUCT:

Academic Misconduct will not be tolerated. For a more precise definition of academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available at https://www.nwpolytech.ca/about/administration/policies/index.html.

*Note: all Academic and Administrative policies are available on the same page.