



ORIGINAL COURSE IMPLEMENTATION DATE: September 2008
 REVISED COURSE IMPLEMENTATION DATE: September 2018
 COURSE TO BE REVIEWED: (six years after UEC approval) March 2024
 Course outline form version: 09/15/14

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: KIN 301	Number of Credits: 3 Course credit policy (105)																
Course Full Title: Research Methods in Kinesiology Course Short Title (if title exceeds 30 characters): Research Methods in Kin																	
Faculty: Faculty of Health Sciences	Department (or program if no department): Kinesiology																
Calendar Description: An introduction to scientific research methods and their application to kinesiology. Topics include the basic elements of research design, critical analysis of research literature, and development of research proposals. Note: Students with credit for KPE 301 cannot take this course for further credit.																	
Prerequisites (or NONE):	Admission to the Bachelor of Kinesiology degree and 60 university-level credits including one of STAT 104, STAT 106, or PSYC 110.																
Corequisites (if applicable, or NONE):	NONE																
Pre/corequisites (if applicable, or NONE):	NONE																
Equivalent Courses (cannot be taken for additional credit) Former course code/number: KPE 301, KPE 400 Cross-listed with: Equivalent course(s): KPE 301, KPE 400 <i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>	Transfer Credit Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Transfer credit requested (OReg to submit to BCCAT): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form) Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input type="checkbox"/> No To find out how this course transfers, see bctransferguide.ca .																
Total Hours: 45 Typical structure of instructional hours: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr><td>Lecture hours</td><td style="text-align: right;">35</td></tr> <tr><td>Seminars/tutorials/workshops</td><td style="text-align: right;">10</td></tr> <tr><td>Laboratory hours</td><td></td></tr> <tr><td>Field experience hours</td><td></td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;">Total</td><td style="text-align: right;">45</td></tr> </table>	Lecture hours	35	Seminars/tutorials/workshops	10	Laboratory hours		Field experience hours		Experiential (practicum, internship, etc.)		Online learning activities		Other contact hours:		Total	45	Special Topics Will the course be offered with different topics? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, different lettered courses may be taken for credit: <input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit <i>Note: The specific topic will be recorded when offered.</i>
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Online learning activities																	
Other contact hours:																	
Total	45																
Maximum enrolment (for information only): 36 Expected frequency of course offerings (every semester, annually, every other year, etc.): once annually																	
Department / Program Head or Director: Alastair Hodges	Date approved: October 2017																
Faculty Council approval	Date approved: October 2017																
Campus-Wide Consultation (CWC)	Date of posting: November 24, 2017																
Dean/Associate VP: Joanne MacLean	Date approved: October 2017																
Undergraduate Education Committee (UEC) approval	Date of meeting: March 23, 2018																

Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Describe how knowledge in kinesiology and other health science fields is generated through the research process.
2. Describe the characteristics, strengths, and weaknesses of a variety of research designs used in the health sciences.
3. Identify appropriate research approaches to investigate a variety of researchable problems.
4. Discuss principles associated with sampling, data collection, and data analysis, including methods for establishing reliability and validity and minimizing systematic error.
5. Describe the basic components of scientific papers and their purpose.
6. Evaluate scientific literature with respect to design, measurement instruments, analyses, and conclusions.
7. Apply the basic principles of descriptive and inferential statistics as presented in scientific papers.
8. Develop a detailed proposal for a research project in kinesiology.

Prior Learning Assessment and Recognition (PLAR)

Yes No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Lectures, discussion of readings, seminars, case studies, group projects

Grading system: Letter Grades: Credit/No Credit: Labs to be scheduled independent of lecture hours: Yes No

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1. Cozby, P.C. & Rawn, C.D.	Methods in Behavioral Research, Canadian ed.	<input checked="" type="checkbox"/>	McGraw Hill	2012
2.	Readings posted to the Blackboard	<input type="checkbox"/>		
3.		<input type="checkbox"/>		

Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)**Typical Evaluation Methods and Weighting**

Final exam:	40%	Assignments:	%	Midterm exam:	25%	Practicum:	%
Quizzes/tests:	%	Lab work:	%	Field experience:	%	Shop work:	%
		Research proposal:	25%	Paper evaluation:	10%	Total:	100%

Details (if necessary):

Typical Course Content and Topics

1. Introduction
 - development of critical thinking skills
 - generation of knowledge
2. Research approaches
 - quantitative vs. qualitative
 - naturalistic, correlational, and experimental research
3. Analysis of research/scientific papers
4. Library orientation
5. Research ethics
6. Hypotheses and variables
 - operational definitions
 - independent and dependent variables
7. Reliability and validity
8. Survey research
9. Experimental research
 - determining cause and effect
 - confounds and internal validity
 - control, participant assignment
 - simple and complex designs
10. Understanding research results
 - presentation of descriptive statistics and correlation
11. Presentation of inferential statistics
 - simple and complex designs