

## Course Information

<b>Instructor Name:</b>	<b>John Holash</b>	<b>Classroom #:</b>	<b>Online</b>
<b>Phone Number:</b>	<b>4032207655</b>	<b>Day(s) Class Meets:</b>	<b>Asynchronous</b>
<b>Email Address:</b>	<b>john.holash@ucalgary.ca</b>	<b>Time Class Meets:</b>	<b>Asynchronous</b>
<b>Office #:</b>	<b>KNB 436</b>	<b>Course Website:</b>	<b>D2L</b>
<b>Office Hours:</b>	<b>Live / Zoom by Appointment</b>	<b>Labs:</b>	<b>Asynchronous</b>
<b>Zoom ID:</b>	<b>277 684 5266</b>		

Course TA Contacts: Jenny Zhang [mu.zhang@ucalgary.ca](mailto:mu.zhang@ucalgary.ca)  
 Lindsay Morrison [lindsay.morrison@ucalgary.ca](mailto:lindsay.morrison@ucalgary.ca)  
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### Course Description:

An introduction to research in Kinesiology with an emphasis on understanding the research process, including basic statistical knowledge, and its relationship to critical thinking. Practical application of concepts through direct involvement in individual and group projects.

### Prerequisites:

Biology 30, Chemistry 30, and Mathematics 30-1

### Course Objectives:

1. Describe the research process and its relationship to critical thinking.
2. Critically appraise and interpret the scientific literature.
3. Write using scientific terminology, APA format and a reference manager.
4. Explain and describe and basic type of research conducted in Kinesiology.
5. Describe basic concepts of measurement and data analysis and apply them to decision making.

### Course Content:

Planned Schedule – Lecture content may change according to class needs.

As this class content has been developed as an online asynchronous class, dates and times are presented as a guideline and the last date that content will be available♣.

Only the first module will be available until the add / delete course deadline has been crossed (Sept 18<sup>th</sup>), after that date subsequent modules will open upon the completion of the previous module \* dependent on lecture modules being completed\*

Lecture Topics	Reference Textbook	Lecture available 8:00 am♣
<b>Module 1 Dates: Sept 9<sup>th</sup> -18<sup>th</sup></b>		
Introduction / course overview		09-Sep
Research in Kinesiology	1	11-Sep
Discovering and describing the world	1	14-Sep
Philosophical world views	1	16-Sep

Thinking about thinking	2	18-Sep
<b>Module 2 Dates: Sept 21<sup>st</sup> - Oct 2<sup>nd</sup></b>		
Qualitative and quantitative Research	2	21-Sep
Ethics of Research / Human & Animal	3	23-Sep
Libraries tools search strategies	Internal video URL	25-Sep
Reference management / APA style	Internal video URL	28-Sep
Anatomy of research article / Critiquing articles		30-Sep
Guest Lecture / Article critique 1		02-Oct
<b>Module 3 Dates Oct 5<sup>th</sup> Oct 19<sup>th</sup></b>		
Quantitative research types and outlines	4	05-Oct
Qualitative research types and outlines	7	07-Oct
Mixed methods research types and outlines	10	09-Oct
<b>Thanksgiving Day Oct 12<sup>th</sup></b>		12-Oct
Study Design: Quantitative / Qualitative / Mixed	4	14-Oct
Guest Lecture / Article critique 2		16-Oct
Study Design: Quantitative / Qualitative /Mixed	7	19-Oct
<b>Module 4 Dates: Oct 21<sup>st</sup> - Oct 30<sup>th</sup></b>		
Qualitative sampling & access	5	21-Oct
Quantitative sampling & access	8	23-Oct
Bias and confounding variability		26-Oct
Data and data types Qualitative	5	28-Oct
Data and data types Quantitative	8	30-Oct
<b>Module 5 Dates Nov 2<sup>nd</sup> – 20<sup>th</sup></b>		
Guest Lecture / TA critique 3 & 4		02-Nov
Guest Lecture / TA critique 3 & 4		04-Nov
Data generation and recording in Qualitative studies	8&9	06-Nov
<b>Reading week Nov 8<sup>th</sup>-14<sup>th</sup></b>		Nov8-14th
Recording and representing data in Quantitative studies	5&6	16-Nov
Reliability & validity	6	18-Nov
Evaluation of merit / Authenticity	9	20-Nov
<b>Module 6 Dates Nov 23<sup>rd</sup> – Dec 9<sup>th</sup></b>		
Knowledge Translation	12	23-Nov
P-hacking, finding significance, post hoc analysis	Supplemental	25-Nov
Why don't "facts" change our minds?	Supplemental	27-Nov
Cognitive dissidence, motivated numeracy	Supplemental	30-Nov
Establishing a research library (personal)	Supplemental	02-Dec
Measurement errors (revisit bias, confounding)	Supplemental	04-Dec

#### Required Reading Materials:

Kent C. Kowalski, Tara-Leigh F. McHugh, Catherine M. Sabiston and Leah J. Ferguson (2018) Research Methods in Kinesiology, Oxford University Press, Don Mills, Ontario, Canada.

Refer to materials on D2L

#### Recommended Reading Materials: (Optional)

Thomas, J., Nelson J., and Silverman, S. (2020) Research Methods in Physical Activity 7th Edition, Human Kinetics Publishing, Champaign, Illinois.

## Assessment Components/Expectations

### Grading Scale:

Letter	Percent	Grade Point Value	Description
A+	97.0-100.0	4.00	Outstanding
A	92.0-96.9	4.00	Excellent – Superior performance, showing comprehensive understanding of subject matter
A-	87.0-91.9	3.70	
B+	83.0-86.9	3.30	
B	79.0-82.9	3.00	Good – Clearly above average performance with knowledge of subject matter generally complete.
B-	75.0-78.9	2.70	
C+	71.0-74.9	2.30	
C	67.0-70.9	2.00	Satisfactory – Basic understanding of the subject matter. Grade point average below 2.00 is not sufficient for promotion.
C-	63.0-66.9	1.70	<b>Minimum grade required if needed as a prerequisite course.</b>
D+	59.0-62.9	1.30	
D	55.0-58.9	1.00	Minimal pass – Marginal performance, generally insufficient preparation for subsequent courses in the same subject.
F	0.0-54.9	0	Fail – Unsatisfactory performance of failure to meet course requirements.

### Evaluation schedule:

	Assignment Description	Due Date	Value %
Module 1	Something about yourself discussion (SAYS)	18-Sep	1
	Social media with science references	21-Sep	3
	<b>End module 1 quiz</b>	21-Sep	5
Module 2	Library Search		
	2 topics 4 references (APA)	28-Sep	3
	Ethics Certificate	02-Oct	3
	<b>End Module 2 quiz</b>	05-Oct	5
Module 3	Study critique Quantitative Presented by Guest Speaker	09-Oct	5

	<b>End module 3 quiz</b>	21-Oct	5
Module 4	Study critique Qualitative Presented. by Guest Speaker	23-Oct	5
	<b>End module 4 quiz</b>	02-Nov	5
Module 5	Study Critique Papers presented by TA	06-Nov	8
	Mini Research proposal	18-Nov	12
	<b>End module 5 quiz</b>	23-Nov	5
Module 6	Group Project (3-4 members) Product review	27-Nov	15
	<b>End module 6 quiz</b>	09-Dec	5
	Full article critique	09-Dec	15

#### Midterm Exam Policy:

The Faculty of Kinesiology policy is that all students are expected to write midterm exams on the dates listed on the course outline. Special accommodation may be granted by the instructor in **exceptional circumstances only**, which includes illness, participation in athletic events (varsity, national or international), domestic affliction, and religious conviction. It is the student's responsibility to supply proper documentation and/or notification **prior to** the originally scheduled midterm to support their circumstance. Personal travel plans and arrangements are not valid reasons for requesting a special accommodation for a midterm exam.

End of module quizzes are individual assessments and to be completed as such. Quizzes will be one-way assessments (no going backward to view previous questions) with question order randomized. End of Module quizzes are cumulative and will contain a small number of questions from previous modules.

Special accommodations will be provided as required, please see section on academic accommodation below for further information. If an unsurmountable technical difficulty is encountered during a quiz you will need to contact the instructor immediately so a solution can be formulated. Students will have 40 minutes (plus 50% extra time for any technical issues) to write the quiz in D2L with a total time of 60 minutes. Students will have a 24-hour window in which to write the quiz. Once a student starts the quiz, they have 60 minutes to complete it. The quiz will become available in D2L according to the following schedule:

Quiz for:	Open: 12:00 Am	Closes 11:59 pm
Module 1	21-Sep	21-Sep
Module 2	05-Oct	05-Oct
Module 3	21-Oct	21-Oct
Module 4	02-Nov	02-Nov
Module 5	23-Nov	23-Nov
Module 6	09-Dec	09-Dec

#### Final Exam:

There is no final exam in this course, as evaluation and assessment is continuous with course material .

**Late Policy:**

Due to the online nature of these assessments deadlines represent the last possible day to submit work or complete quizzes. It should be possible to submit all work before the listed deadlines. Exceptions to this rule maybe granted due to extenuating circumstances, and will be evaluated based on the merits of the request.

**Additional Course Information:**

**Marking:** Grades are assessed and given to one decimal point. Grades will not be rounded further, for example a 96.9 is an A not an A+ and will not be changed or rounded to achieve a higher grade.

**Academic integrity KNES 213:**

Cheating in any form compromises your grade and lowers the quality of your degree. Classmates who cheat may actually lower your grade by inflating grades, etc. Please make a point to read the university's regulations on academic misconduct <https://www.ucalgary.ca/pubs/calendar/current/k.html>. To clarify, using someone's work without giving that person proper credit (i.e. properly citing them) or passing other people's works off as your own is considered plagiarism regardless of whether you got the material from: a book, the Web or your best friend. Directly sharing your personal answers, solutions, or work, constitutes cheating for all parties involved. Module quizzes in this course are designed to be personal evaluations. For this reason, any communication with other class members while participating in any quiz is strictly forbidden, regardless of its modality (text, voice, video, etc.) or technology (IRQ, Discord, Telegram, Signal, etc.). Let us all work together to keep this course fair for all students.

Publishing and or posting of lecture material, class notes, lecture content, assignment notes, video links, etc. outside of this courses D2L shell is **not** allowed. Violations of this rule will follow the procedures listed in the UCalgary calendar <https://www.ucalgary.ca/pubs/calendar/current/k.html>

**Contacting the Instructor:**

Students requiring assistance are encouraged to speak with their instructor during class or office hours. If you wish to meet with the instructor outside of office hours, please phone or email the instructor to make an appointment.

Email, while commonly used, does limit the effectiveness of communications and may not be the best way for instructors to answer student questions. Therefore, the instructor may request a telephone call or personal meeting. Your instructor will inform you as to his/her expectations about emails.

**Students' Union:**

The Faculty of Kinesiology representative is Deyana Altahsh and can be reached at [kinesrep@su.ucalgary.ca](mailto:kinesrep@su.ucalgary.ca).

## Supplementary Course Information

**Plagiarism/Cheating/Other Academic Misconduct**

(see Calendar <https://www.ucalgary.ca/pubs/calendar/current/k.html>):

A **single** offence of cheating, plagiarism or other academic misconduct is a serious act that will not be tolerated in the Faculty of Kinesiology. Penalties for such acts will be determined by the Dean and may result in a failing grade, probation, suspension, or expulsion. Any student who is uncertain if an action falls into this category should consult the instructor and/or the Calendar in advance.

**Academic Accommodation Policy and Information on Student Accessibility Services:**

It is the student's responsibility to request academic accommodation. If you are a student with a documented disability who may require academic accommodation and have not registered with Student Accessibility Services, please contact their office at 403-220-8237. You are also required to discuss your needs with your instructor preferably within the first fourteen (14) days of this course. Students who have not registered with Student Accessibility Services **are not** eligible for formal academic accommodation. For further information, go to <http://www.ucalgary.ca/access/>.

#### **Accommodations on Protected Grounds other than Disability:**

Students who require an accommodation in relation to their coursework or to fulfil requirements for an undergraduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to Jodie McGill, Team Lead Student Advising at [jdmcgill@ucalgary.ca](mailto:jdmcgill@ucalgary.ca). Students who require an accommodation unrelated to their coursework or the requirements for an undergraduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Vice-Provost (Student Experience). For additional information on support services and accommodations for students with disabilities, visit [www.ucalgary.ca/access/](http://www.ucalgary.ca/access/).

#### **Intellectual Property:**

Course materials created by professor(s) (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the professor(s). These materials may not be reproduced, redistributed or copied without the explicit consent of the professor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited.

#### **Internet and Electronic Communication Device Information:**

Any surfing of the Internet during lectures that is not directly related to the class discussion is distracting and strictly forbidden. Additionally, the use of any electronic devices (i.e., cellular phones) for emailing, texting, etc., is strictly prohibited. Please turn **OFF** your phone before the beginning of each lecture unless permitted. Instructors have the authority, at the discretion of the Dean to require that specific course assignments, term papers and academic exercises be submitted in an electronic format.

#### **Library and Resources in the Library:**

Visit the University of Calgary's library at <http://library.ucalgary.ca/>.

#### **Student Success Centre:**

The Student Success Centre can help you pursue your academic goals while expanding your learning opportunities. For more information go to <http://www.ucalgary.ca/ssc/>.

#### **Wellness and Mental Health Resources:**

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the excellent mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, <https://www.ucalgary.ca/wellnesscentre/services/mental-health-services>) and the Campus Mental Health Strategy website (<http://www.ucalgary.ca/mentalhealth/>).

#### **Ombuds Office:**

For an appointment with the Student Ombuds, send your request via email or call: [Ombuds@ucalgary.ca](mailto:Ombuds@ucalgary.ca) – 403-220-6420 or visit their website at <https://www.ucalgary.ca/student-services/ombuds>.

#### **Distress Centre Calgary:**

They are available to talk anytime – 24 hours a day, 7 days a week, 365 days a year. Crisis doesn't take time off, neither do they. Contact them at <https://www.distresscentre.com/need-help/>.

#### **FOIP Policy:**

The University of Calgary is under the jurisdiction of the Provincial Freedom of Information and Protection of Privacy (FOIP) Act. Please refer to the website for further details. <https://www.ucalgary.ca/legalservices/foip>.

**Copyright Information:**

All posted and distributed materials **must** comply with the [Copyright Act](#). Further copyright information is available on the Copyright Office webpage at <http://library.ucalgary.ca/copyright>.

**Emergency Evacuation/Assembly Points:**

For classes in the Kinesiology buildings, the Primary assembly point is in the MacEwan Student Centre – North Courtyard. The Alternate assembly point is in the lobby of the University Theatres. For all other buildings, please refer to the website: <https://www.ucalgary.ca/risk/emergency-management/evac-drills-assembly-points/assembly-points>.

**Safewalk Information:**

Safewalk volunteers walk people safely to their destination on campus (including Health Sciences, Children's Hospital, McMahon Stadium and the University LRT Station). This service is free and available to students, staff and campus visitors. Call 403-220-5333 (24 hours a day, 7 days a week, 365 days a year).