



<p><u>Instructor:</u> Dr. Megan Udala (she/her/hers) Contact Email: megan.udala@ubc.ca Office hours: By appointment (please email)</p>	<p><u>Land Acknowledgment:</u> I acknowledge and respect the privilege I have to work and live on the Musqueam, Tsleil-Waututh, and Coast Salish lands. Please https://native-land.ca to see the territories you are living on.</p>
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Academic Calendar Entry:

PSYO 270 Introduction to Research Methods and Design: How to Ask and Answer Questions in Psychology

Survey of topics in psychology which relate to personal functioning. Methods and statistics, motivation and emotion, life span development, social processes, personality, abnormal behaviour, and psychotherapy.

Prerequisites required: PSYO 111 and PSYO 121

Course Overview and Objectives:

Introduction to the procedures and difficulties in the design and critical evaluation of research in experimental psychology. Various research designs and basic statistics. A required course for students majoring in Psychology.

Textbook:

Price, P. C., Jhangiani, R. S., & Chiang, I. A. (2015). *Research Methods in Psychology* (2nd Canadian Edition).

This is a free, open-access textbook that can be viewed online or downloaded in a variety of formats:

<https://opentextbc.ca/researchmethods/>

Learning Outcomes:

This course is designed to introduce you to the philosophy of science and inquiry in psychology. We will accomplish this by combining online lectures with various class activities. Course objectives include:

- Understand research methods and design in psychological science, including the concepts of research ethics, validity and reliability, measurement, single and multiple-variable research techniques, survey design, and data analysis and interpretation
- Increase familiarity with scientific writing and reporting results in APA format
- Propose a research idea (specification of a testable research idea, development of testable hypotheses)
- Development of a research study (choose the appropriate design to test specific hypotheses, consider ethical guidelines, and consider data management)
- Learn about data analysis and interpretation techniques
- Critically evaluate research and every day claims made about research

Course Format:

The course consists of lectures, PowerPoint slides, and readings. PowerPoint slides will emphasize the key points of the chapters and will provide clarification and explanation of course concepts. All lectures will be recorded live and uploaded to *Canvas* by 9 pm PST on Monday and Thursday evenings. The lectures will be available on *Canvas* for student viewing until the content-relevant examination. It is the responsibility of the student to stay up to date with the course content and to monitor *Canvas* for important announcements.



Class Zoom Link:

<https://ubc.zoom.us/j/69746150167?pwd=ZnpUMG5zZ0hudjhyRmhlb3lLZlV3Zz09>

Meeting ID: 697 4615 0167

Passcode: 308932

Grading:

Most of the class preferred to be evaluated by a midterm, final, and small quizzes. Many of you also voted to have a small paper/poster to lessen the weight of exams. As such, you can **choose** to do an optional research proposal paper/poster to lessen the percentage of your exam grades. You **do not need to tell me what option you are choosing**. If you do not hand in anything by the due date, you will be evaluated by Option #1 criteria. If you hand in an assignment by the due date, I will evaluate your final grading using the Option #2 criteria. If you hand a written assignment in, **you cannot switch back to Option #1** grading if you are dissatisfied with your mark.

<u>Option #1</u>	<u>Option #2</u>
Exam #1 (40% of grade) June 2nd, 2022 <ul style="list-style-type: none"> • Chapters <u>1, 2, 3, 4, and 5</u> • <u>65 questions</u> • Multiple choice (15 questions per chapter) • <u>Open book</u> completed via Canvas. • <u>120 minutes (2 hours)</u> • <u>Scheduled during class time.</u> 	Exam #1 (30% of grade) June 2nd, 2022 <ul style="list-style-type: none"> • Chapters <u>1, 2, 3, 4, and 5</u> • <u>65 questions</u> • Multiple choice (15 questions per chapter) • <u>Open book</u> completed via Canvas. • <u>120 minutes (2 hours)</u> • <u>Scheduled during class time.</u>
Final Exam (40% of grade) Date TBD. <ul style="list-style-type: none"> • Chapters <u>6, 8, 9, 12, and 13</u> • <u>65 questions</u> • Multiple choice (15 questions per chapter) • <u>Open book</u> completed via Canvas. • <u>120 minutes (2 hours)</u> • The examination will take place during the <u>scheduled exam time TBD by Dean.</u> 	Final Exam (30% of grade) Date TBD. <ul style="list-style-type: none"> • Chapters <u>6, 8, 9, 12, and 13</u> • <u>65 questions</u> • Multiple choice (15 questions per chapter) • <u>Open book</u> completed via Canvas. • <u>120 minutes (2 hours)</u> • The examination will take place during the <u>scheduled exam time TBD by Dean.</u>
Small Quizzes (20% of grade) June 22nd, 2022 <ul style="list-style-type: none"> • 4 quizzes total • Can be done at any time 	Small Quizzes (20% of grade) June 22nd, 2022 <ul style="list-style-type: none"> • 4 quizzes total • Can be done at any time
	Optional Paper/Poster Assignment (20% of grade) <ul style="list-style-type: none"> • Due: June 16th, 2022 •
Sona (2% Bonus) June 8th or June 22nd, 2022 <ul style="list-style-type: none"> • Research Participation • Direct participation in research through the Sona online volunteer subject pool (Option 1), by completing two written summaries of primary research articles (Option 2), or by a combination of the two types of activities 	Sona (2% Bonus) June 8th or June 22nd, 2022 <ul style="list-style-type: none"> • Research Participation • Direct participation in research through the Sona online volunteer subject pool (Option 1), by completing two written summaries of primary research articles (Option 2), or by a combination of the two types of activities



As per UBC policy, all examinations must be completed during the scheduled course time (i.e., **Monday and Thursdays 3:00-6:00 PM PST**). Exceptions to this policy include documented illness and hardship due to time zones. I will be available during all examinations via Zoom should students encounter technical difficulties. It is the responsibility of the student to ensure that any technical issues are reported **immediately**. If you cannot connect with me via Zoom, please document the issue or technical concern via a screenshot. This is the only circumstance in which it is appropriate to document (i.e., screenshot) exam material. Failing to report technical issues in a timely manner, may result in the issue not being resolved and may negatively impact your grade.

Students are asked to familiarize themselves with the academic integrity pledge found at this link:
<https://ctl.ok.ubc.ca/teaching-remotely/final-exams/integrity-pledge/>

IMPORTANT: Students who miss an examination must provide documentation (i.e., doctor's note) of the absence and must arrange to make up the exam before the next scheduled class. Students who do not write the exam by the next scheduled class will receive a "0" for the exam unless other arrangements have been made with the instructor.

Final grades will be based on the evaluations listed above and the final grade will be assigned according to the standardized grading system outlined in the UBC Okanagan Calendar. The Barber School reserves the right to scale grades in order to maintain equity among sections and conformity to University, faculty, department, or the school norms.

Students should therefore note that an unofficial grade given by an instructor might be changed by the faculty, department, or school <http://www.calendar.ubc.ca/okanagan/index.cfm?tree=3,41,90,1014>.



SONA RESEARCH ACTIVITY (2% Bonus)

Students earn Sona credit from participating in research activity. This can be either through direct participation in research through the Sona online volunteer subject pool (Option 1), by completing summaries of primary research articles (Option 2), or by a combination of the two types of activities.

Research Participation (Option 1)

As a participant in one of numerous Psychology Department Subject Pool experiments posted at <http://ubco.sona-systems.com/>, you will obtain 0.5% credit for each 0.5 hour of participation at UBCO. Hence, participation requiring a 1-hour time commitment provides a credit of 1%, 1.5 hours provides a credit of 1.5%, and 2 hours provides a credit of 2.0%, etc.

Important Requirements

You may participate in more than one experiment in order to accrue credits. It is important to sign up for experiments early in the semester in order to increase the odds that a timeslot is available. If you wait until late in the semester, all timeslots may be taken. **IMPORTANT:** Please note, due to concerns related to COVID-19, only online studies will be hosted on Sona.

Logging On To The System

Sona is only open for those students who are registered in a psychology course offering Sona credit. Please only use the request account option if you have never used the Sona system before. If you have used the Sona system before, please use the most recent login information you remember to log in.

Missed Appointments & Penalties

Missed appointments (i.e., failure to cancel the appointment at least 3 hours prior to the session) will be tracked. The consequence will be that you will not receive credit for participation in the experiment and will lose the credit value of the study from possible marks associated with participation in research.

Please email psyc.ubco.research@ubc.ca with any questions or concerns that you may have regarding the Sona system, including unassigned bonus credits. Your professor does NOT have access to this information.

Research Summary Assignment (Option 2)

As an alternative to participating in a Psychology Subject Pool experiment, you may obtain subject pool credit by completing library-writing projects to a satisfactory level. Each library-writing project is worth a total of two credits.

Important Requirements

1. This project consists of reading and summarizing (in written form) a recent, peer-reviewed, primary research article.

- A “recent” article has been published within the past 12 months.
- A “peer reviewed” article is one that has been reviewed by other scholars before it is accepted – for example, it **cannot** be a news item, an article from a popular magazine, a notice, or a letter to the editor.



- A “primary” research article describes an experiment or study where data are collected by the authors. In other words, the article you choose to review **cannot** be a book review, literature review, or summary article.

2. You must choose an article published by one of the following agencies:

- The American Psychological Society - *Psychological Science*, *Current Directions in Psychological Science*, *Psychological Science in the Public Interest*, or *Perspectives on Psychological Science*.
- The American Psychological Association - www.apa.org/journals/by_title.html has a full listing.
- The Canadian Psychological Association - *Canadian Psychology*, *Canadian Journal of Behavioural Science*, or *Canadian Journal of Experimental Psychology*.
- The Psychonomic Society - *Behavior Research Methods*, *Cognitive, Affective, & Behavioral Neuroscience*, *Learning & Behavior*, *Memory & Cognition*, *Perception & Psychophysics*, or *Psychonomic Bulletin & Review*.

3. Other Assignment Guidelines

The summary should be about 300-500 words in length. The source must be cited and referenced in accordance with the *Publication Manual of the American Psychological Association* (6th ed.). The review will be graded on a pass – fail basis (2% or 0%). At least **14 days before the end of classes** each term, submit the following to the course instructor:

- the article summary
- a copy of the article
- a cover page that specifies your name, student number, email address, and word count of the summary.
- the course title and number

Submitting the assignment 14 days in advance is necessary to ensure that you have an opportunity to make corrections, if required. If you do not check your email frequently, provide a phone number on the cover page.



Course Schedule:

DATE	LECTURE TOPIC	TEXTBOOK CHAPTER	Suggested Quiz Time
Mon May 16 th	The Science of Psychology – Why do Research?	1	
Thurs May 19 th	Getting Started in Research and Ethics	2 and 3	Quiz 1: 1, 2, and 3
Mon May 23rd	NO CLASS – STATUTORY HOLIDAY		
Thurs May 26 th	Theory in Psychology	4	
Mon May 30 th	Psychological Measurement	5	Quiz 2: 4 and 5
Thurs June 2 nd	MIDTERM		
Mon June 6 th	Experimental Research	6	
Thurs June 9 th	Complex Research Designs	8	Quiz 3: 6 and 8
Mon June 13 th	Survey Research	9	
Thurs June 16 th	Descriptive Statistics	12	
Mon June 20 th	Inferential Statistics	13	Quiz 4: 9, 12, and 13

****EXAM PERIOD June 25th – 30th 2022****

Final Examination:

The examination period for Term 1 of Summer 2022 is June 25th – 30th. Except in the case of examination clashes and hardships (three or more formal examinations scheduled within a 24-hour period) or unforeseen events, students will be permitted to apply for out-of-time final examinations only if they are representing the University, the province, or the country in a competition or performance; serving in the Canadian military; observing a religious rite; working to support themselves or their family; or caring for a family member. Unforeseen events include (but may not be limited to) the following: ill health or other personal challenges that arise during a term and changes in the requirements of an ongoing job.

Further information on Academic Concession can be found under Policies and Regulation in the *Okanagan Academic Calendar* <http://www.calendar.ubc.ca/okanagan/index.cfm?tree=3,48,0,0>



UBC Policies

Grading Practices:

Faculties, departments, and schools reserve the right to scale grades in order to maintain equity among sections and conformity to University, faculty, department, or school norms. Students should therefore note that an unofficial grade given by an instructor might be changed by the faculty, department, or school. Grades are not official until they appear on a student's academic record.

<http://www.calendar.ubc.ca/okanagan/index.cfm?tree=3,41,90,1014>

It is the policy in this course that final grades cannot be adjusted (through extra assignments or otherwise) in order to achieve a passing mark, higher letter grade etc. In order to maintain fairness within this course, requests for additional assignments or to round up grades will not be considered.

Academic Integrity:

The academic enterprise is founded on honesty, civility, and integrity. As members of this enterprise, all students are expected to know, understand, and follow the codes of conduct regarding academic integrity. At the most basic level, this means submitting only original work done by you and acknowledging all sources of information or ideas and attributing them to others as required. This also means you should not cheat, copy, or mislead others about what is your work. Violations of academic integrity (i.e., misconduct) lead to the breakdown of the academic enterprise, and therefore serious consequences arise and harsh sanctions are imposed. **For example, incidences of plagiarism or cheating usually result in a failing grade or mark of zero on the assignment or in the course.** Careful records are kept to monitor and prevent recidivism.

A more detailed description of academic integrity, including the University's policies and procedures, may be found in the Academic Calendar at: <http://www.calendar.ubc.ca/okanagan/index.cfm?tree=3,54,111,0>

Copyright Disclaimer:

Diagrams and figures included in lecture presentations adhere to Copyright Guidelines for UBC Faculty, Staff and Students (<http://copyright.ubc.ca/requirements/copyright-guidelines/>) and UBC Fair Dealing Requirements for Faculty and Staff (<http://copyright.ubc.ca/requirements/fair-dealing/>). Some of these figures and images are subject to copyright and will not be posted to *Canvas*. All material uploaded to *Canvas* are used with permission of the publisher; are in the public domain; are licensed by Creative Commons; meet the permitted terms of use of UBC's library license agreements for electronic items; and/or adhere to the UBC Fair Dealing Requirements for Faculty and Staff. Access to the *Canvas* course site is limited to students currently registered in this course. Under no circumstance are students permitted to provide any other person with means to access this material. Anyone violating these restrictions may be subject to legal action. Permission to electronically record any course materials must be granted by the instructor. Distribution of this material to a third party is forbidden.

UBC Okanagan Disability Resource Centre:

The Disability Resource Centre ensures educational equity for students with disabilities and chronic medical conditions. If you are disabled, have an injury or illness and require academic accommodations to meet the course objectives, please contact Earllene Roberts, the Diversity Advisor for the Disability Resource Centre located in the University Centre building (UNC 214).

UNC 214 250.807.9263

Email: earllene.roberts@ubc.ca

Web: www.students.ok.ubc.ca/drc

UBC Okanagan Equity and Inclusion Office:

UBC Okanagan is a place where every student, staff and faculty member should be able to study and work in an environment that is free from discrimination and harassment. UBC prohibits discrimination and harassment on the basis of the following grounds: age, ancestry, colour, family status, marital status, physical or mental disability, place of origin, political belief, race, religion, sex, sexual orientation or unrelated criminal conviction. If you



require assistance related to an issue of equity, discrimination or harassment, or to get involved in human rights work on campus, please contact the Equity and Inclusion Office.

UNC 216 250.807.9291

Email: equity.ubco@ubc.ca

Web: www.equity.ok.ubc.ca

Health & Wellness:

At UBC Okanagan health services to students are provided by Health and Wellness. Nurses, physicians and counsellors provide health care and counselling related to physical health, emotional/mental health and sexual/reproductive health concerns. As well, health promotion, education and research activities are provided to the campus community. If you require assistance with your health, please contact Health and Wellness for more information or to book an appointment.

UNC 337 250.807.9270

email: healthwellness.okanagan@ubc.ca

Web: www.students.ok.ubc.ca/health-wellness

Student Learning Hub: Learning Support

The Student Learning Hub is your go-to resource for **free** learning support. The Hub welcomes students from all disciplines and years to access a range of supports that include **tutoring in math, sciences, writing, and languages**, as well as **dedicated learning support** to help you develop skills and strategies for academic success. Don't wait—successful learners access support early and often. For more information, visit students.ok.ubc.ca/hub or contact learning.hub@ubc.ca.

Office of the Ombudsperson for Students:

The Office of the Ombudsperson for Students offers independent, impartial, and confidential support to students in navigating UBC policies, processes, and resources, as well as guidance in resolving concerns related to fairness.

Email: ombuds.office@ubc.ca

Web: www.ombudsoffice.ubc.ca

SAFEWALK:

Don't want to walk alone at night? Not too sure how to get somewhere on campus? Call 250.807.8076

For more information, see: www.security.ok.ubc.ca

Sexual Violence Prevention and Response Office (SVPRO):

A safe and confidential place for UBC students, staff and faculty who have experienced sexual violence regardless of when or where it took place. Just want to talk? We are here to listen and help you explore your options. We can help you find a safe place to stay, explain your reporting options (UBC or police), accompany you to the hospital, or support you with academic accommodations. You have the right to choose what happens next. We support your decision, whatever you decide.

Visit svpro.ok.ubc.ca or call us at 250.807.9640

Independent Investigations Office (IIO):

If you or someone you know has experienced sexual assault or some other form of sexual misconduct by a UBC community member and you want the Independent Investigations Office (IIO) at UBC to investigate, please contact the IIO. Investigations are conducted in a trauma informed, confidential and respectful manner in accordance with the principles of procedural fairness.

You can report your experience directly to the IIO via email: director.of.investigations@ubc.ca or by calling 604.827.2060 or online by visiting investigationsoffice.ubc.ca