



Research Methods & Statistics PSYO 372-3 / Winter Term 1, 2018

INSTRUCTOR:	Kimberley Kaseweter, MSc – Psychological Science PhD Student Email: kkaseweter@alumni.ubc.ca Office: ARTS 280L Office Hours: After class or by appointment
TIME & LOCATION:	CLASS Tuesday & Thursday 12:30pm – 2:00pm - ARTS 365 LAB Wednesday 5:30pm – 8:30pm - ARTS 215
TEACHING ASSISTANTS:	Stefanie Ciszewski, MA – Clinical Psychology PhD Student (LAB) Email: sciszews@mail.ubc.ca Office: ASC 201 Office hours: By appointment Zakary Draper, BSc - Psych Science MA Student (LAB) Email: Zakary.draper@ubc.ca Office: ART 280H Office hours: By appointment Graham Armstrong, BA - Psych Science MA Student (CLASS) Email: graham.armstrong@alumni.ubc.ca Office: ART 280H Office hours: By appointment

READINGS:

- Field, A. (2012). *Discovering statistics using R*. Los Angeles, CA: Sage.
- American Psychological Association. (2010). *Publication manual of the American Psychological Association* (6th ed.). Washington, DC: Author.
- Journal Articles (TBA)

LEARNING OBJECTIVES:

- Identify and apply appropriate statistical procedures for various research designs.
- Analyze data using *R*.
- Report and interpret statistical findings using APA.
- Design a research proposal from start to finish.

FORMAT:

- This course will be taught primarily using the lecture method in combination with discussion and laboratory sessions. Additionally, there will be seminar-style classes with required article readings that will be discussed by the class.
- Attendance at the lecture and labs is expected; students, in the past, have experienced **considerable** difficulty in the course when classes have been missed. If you have to miss a class, you should get the notes from another student.



MISSED ASSIGNMENTS/EXAMS:

- Late assignments will be reduced by 5% for each day [or part thereof] it is late.
- In-class examinations **must** be written during the designated times.
- If an exam is to be missed for a legitimate reason, I **must** be contacted before the exam. Failure to do so may mean that you will not be allowed to write the exam.
- There will be no make-ups for missed lab assignments.

EVALUATION:

CLASS (70%):

- 1) Class Midterm (20%):**
 - Closed Book Exam
 - Multiple Choice/Short Answer questions
 - 1.5 hours
- 2) Research Proposal (20%):**
 - Brief research proposal (5 pages double spaced)
 - APA format
 - Submitted online to Canvas
- 3) In-Class Exercises (5%):**
 - Class attendance required
 - Proposal design questions
- 4) Class Final (25%):**
 - Closed Book Exam
 - Multiple Choice/Short Answer questions
 - 3 hours

LAB (30%):

- 5) Lab Assignments (10%):**
 - Five lab assignments worth 2% each
 - Submitted online to Canvas
- 6) Lab Exam #1 (10%)**
 - Open-book computer exam
 - 3 hours
- 7) Lab Exam # 2 (10%)**
 - Open-book computer exam
 - Focus on material since midterm
 - 3 hours

BONUS CREDIT:

Bonus marks (up to 2%) are available to students who participate in psychological research through SONA. You are strongly encouraged to participate as this opportunity will allow you to assist researchers, earn bonus marks, and experience what it is like to be in a study. Additionally, if you complete all 6 in-class exercises you will receive 1% bonus.

GRADING:

90 -100	A+	76 - 79	B+	64 - 67	C+	50 - 54	D
85 - 89	A	72 - 75	B	60 - 63	C	0 - 49	F (fail)
80 - 84	A-	68 - 71	B-	55 - 59	C-		



TENTATIVE SCHEDULE: *Topics and dates may change*

Week	DATES	TOPICS	READING
1	09/05	Course Overview / R	Chapter 3
	09/06	Introduction	Chapters 1 & 2
2	09/11	Introduction/Assumptions	Chapter 5
	09/12	Assumptions & Graphs	Chapter 4 & 5
	09/13	Assumptions/Proposal	
3	09/18	Bivariate Correlation	Chapter 6 (6.1-6.5)
	09/19	Bivariate Correlation *	
	09/20	Seminar / Proposal	Article #1
4	09/25	Simple Regression	Chapter 7 (7.1-7.5)
	09/26	Simple Regression	
	09/27	Seminar / Proposal	Article #2
5	10/02	T-tests	Chapter 9
	10/03	T-tests *	
	10/04	Seminar / Proposal	Article #3
6	10/09	ANOVA	Chapter 10
	10/10	ANOVA *	
	10/11	Seminar / Proposal	Article #4
7	10/16	ANCOVA	Chapter 11
	10/17	LAB EXAM # 1	
	10/18	Seminar / Proposal / Review	Article #5
8	10/23	MIDTERM	
	10/24	ANCOVA	
	10/25	Factorial ANOVA	Chapter 12
9	10/30	Factorial ANOVA	
	10/31	Factorial ANOVA *	
	11/01	Seminar / Proposal	Article #6
10	11/06	Repeated Measures ANOVA	Chapter 13
	11/07	Repeated Measures ANOVA	
	11/08	Seminar / Proposal	Article #7
11	11/ 13	Non-Parametric	Chapter 15
	11/14	Non-Parametric *	
	11/15	Categorical Data	Chapter 18
12	11/20	Research Ethics	
	11/ 21	Categorical / Intro to SPSS	
	11/22	Research Ethics	
13	11/27	TBD	
	11/28	LAB EXAM # 2	
	11/29	Review	
14	12/04 - 12/19	FINAL EXAM	

***Lab Assignments due on the following Sunday by 12:00pm noon**



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 may result in a mark of zero on the assignment or exam and more serious consequences may apply if the matter is referred to the President's Advisory Committee on Student Discipline. Careful records are kept in order to monitor and prevent recurrences. A more detailed description of academic integrity, including the University's policies and procedures, may be found in the Academic Calendar at: <http://okanagan.students.ubc.ca/calendar/index.cfm?tree=3,54,111,0>

DISABILITY RESOURCE CENTRE:

- The Disability Resource Centre ensures educational equity for students with disabilities, injuries or illness. 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 Commons Corner in the University Centre building (UNC 227). UNC 227A 250.807.9263 email earllene.roberts@ubc.ca Web: <http://students.ok.ubc.ca/drc/welcome.html>

OMBUDS OFFICE:

- The Ombuds Office 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. UNC 227B 250.807.9818 email: ombuds.office.ok@ubc.ca Web: <https://www.ubcsuo.ca/services-ombudsperson>

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, please contact the Equity and Inclusion Office. UNC 227C 250.807.9291 email: equity.ubco@ubc.ca Web: <https://equity.ok.ubc.ca>

HEALTH & WELLNESS – SAFEWALK:

- Don't want to walk alone at night? Not too sure how to get somewhere on campus? Call Safewalk at 250-807-8076. For more information, see: <https://security.ok.ubc.ca/safewalk/>



a place of mind
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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

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