



Prince George Campus
Department of Psychology
University Transfer Program

Psychology 201 (3, 3)
Statistics for the Social Sciences
Fall 2017

Instructor:	Barbara Robertson	Office:	2-240
Phone:	561-5848 Local 5406	Email:	robertson@cnc.bc.ca
Office Hours:	Monday	12:00 - 1:00	
	Wednesday	12:00 - 1:00; 2:00 – 3:00	
	Friday	12:00 - 1:00; 2:00 – 3:00	

Total Course Hours: 90 Lecture Hours: 45 Lab Hours: 45

Textbook:

Gravetter, F.J., Wallnau, L.B. & Forzano, L.B. (2018). *Essentials of statistics for the behavioral sciences* (9th ed.). Toronto: Thompson Wadsworth.

Study Help (recommended):

Aplia Statistics for Psychology and the Behavioral Sciences, an online interactive learning tool that will help you learn basic statistical concepts and procedures.

SPSS Guide: Provided during the first computer lab.

Course Goals and Learning Objectives:

Psychology 201 provides an introduction to both descriptive and inferential statistics. Students will learn various statistical procedures and the appropriate uses of these procedures. In the laboratory a popular computer program called SPSS (Statistical Package for the Social Sciences) will be used for statistical analyses.

Format:

This course consists of lectures and laboratory sessions. During lectures you will often be asked to work on problems requiring a calculator and materials provided with this course outline. Participating actively in these exercises improves your ability to work through statistical problems. For most students, success in this course requires regular attendance at both lectures and labs. If you miss a class, get the notes from another student and see me for help if you have any problems understanding the material. A short section in the preface provides very useful study hints for students who want to improve their performance in this course (page xiiv – xiv). Posted on Moodle are study questions and suggested practice problems for each chapter. Solutions to these practice problems can be accessed at the circulation desk in the library.

If you require special accommodation during lectures or exams, please see both me and Disability Support Services early in the semester. Be sure that any special arrangement you make with me (such as changing due dates, exam dates etc.) is made in my office so that a

written record of the arrangement can be made. The use of text messaging, facebook etc. in the classroom is not permitted.

In the laboratory sessions you will be provided with various databases and asked to use SPSS to describe or analyze this data. In addition to providing statistical output, some assignments require you describe the data using APA (American Psychological Association) style.

Required Materials:

A basic calculator with a square root and memory function is necessary. A sophisticated calculator with built-in or programmable statistical functions is NOT necessary. Before the first computer lab you will need to purchase a memory stick that can be handed in each week.

Evaluation:

The following exams and assignments will determine your final mark.

<u>Exam/Assignments</u>	<u>Date</u>	<u>Value</u>
Exam 1	Oct. 2	16%
Exam 2	Oct. 30	16%
Exam 3	Nov. 24	16%
Final Exam	Exam Week	27%
Computer assignments		
1. Introduction	Sept. 19/21	1%
2. Descriptives/Select Cases	Sept. 26/28	1%
3. Frequencies/Select Cases	Oct. 3/5	1%
4. Descriptives/Split File	Oct. 10/12	1%
5. Compute/Review	Oct. 17/19	1%
6. Simple Bar Graphs	Oct. 24/26	1%
7. T-tests/estimation	Oct. 31/Nov. 2	1%
8. T-tests/estimation	Nov. 7/9	1%
9. Correlation	Nov. 14/16	1%
10. Regression	Nov. 21/23	1%
Computer lab exam	Nov. 28/30	16%

All exams must be written in order to pass the course. Please inform me before an exam if you can't write it at the scheduled time. A make-up exam will be provided only if you have legitimate reason for missing the exam (e.g. significant illness, bereavement). Make-up exams will include short answer questions in addition to or in place of multiple-choice questions. Lab assignments must be given to me on a memory stick before the lab period is over; extensions may be given to students who arrive on time and work diligently during the lab but are unable to complete it. The lab with the lowest mark will not be calculated into your final course grade so you will not be penalized for missing one lab. You will lose 1% for each lab you miss after the first one.

Transfer Credit:

Simon Fraser University: PSYC 210(3), BUEC 232 (0) exemption.

Thompson Rivers University: Psyc 2100 (3)

Thompson Rivers University: Open Learning: Psyc 2101(3)

University of British Columbia: PSYC (3) credit.

University of Northern British Columbia: Psych 315(4), STAT 240(3)

University of Victoria: Psyc 200 level (1.5).

Other institutions: CNC PSYC 201 receives credit at many other post-secondary institutions throughout BC. For more detailed information visit <http://www.bctransferguide.ca>.

Academic Honesty and Student Conduct:

Students are expected to conduct themselves with academic integrity and in accordance with CNC's established standards of conduct. Penalties for misconduct, including plagiarism, cheating and personal misconduct are outlined in the *Standards of Conduct: Student Responsibility and Accountability* document found in the policies section of CNC's website. All students should familiarize themselves with this document.

http://cnc.bc.ca/Visiting/CNC_Policies.htm

Accessibility services:

Students who require academic accommodations as a result of a disability should advise both the instructor and Accessibility Services. Students requiring support should familiarize themselves with the College Access: Students with Disabilities policy.

http://cnc.bc.ca/Visiting/CNC_Policies.htm

Withdrawal policy:

The College's policy concerning a student's withdrawal from a university transfer course is outlined in the CNC Calendar. Please read and familiarize yourself with this policy. Counsellors can help you through the process if, for personal reasons, you need to drop a course after the deadline.

PSYCHOLOGY 201-3
Lecture\Laboratory Schedule *

Week of	Chapter	Topic
Sept. 4	1	General course information, overview of statistics
Sept. 11	1/2	Introduction to Statistics/Frequency distributions
Lab	1 App'x A	Diagnostic math quiz, math review, statistical notation
Sept. 18	2/3	Frequency distributions/Central tendency
Lab		Computer Lab 1: Introduction to SPSS
Sept. 25	4	Variability
Lab		Computer Lab 2: Descriptives/Select Cases
Oct. 2	5	Z-scores Exam 1 (Monday, October 2): Chapters 1-4

Lab		Computer Lab 3: Frequencies/Select Cases
Oct. 9	6	Probability
Lab		Computer Lab 4: Descriptives/Split File
Oct. 16	7	Probability and Samples
Lab		Computer Lab 5: Compute/Review Problems
Oct. 23	8	Introduction to Hypothesis Testing
Lab		Computer Lab 6: Simple bar graphs
Oct. 30	9	Introduction to the t statistic Exam 2 (Monday, October 30): Chapters 5-8
Lab		Computer Lab 7: t tests / estimation
Nov. 6	10	t Test for Two Independent Samples
Lab		Computer Lab 8: t tests/ estimation
Nov. 13	11	t Test for Related Samples
Lab		Computer Lab 9: Correlation
Nov. 20	14	Correlation
Lab		Computer Lab 10: Regression
Nov. 27	14/15	Regression/Chi Square Exam 3 (Friday, November 24): Chapters 9-11
Lab		Lab Exam: all computer material to date
Dec. 4		Final Exam Period Begins (Thursday)

*Topics and dates are subject to change. You are responsible for noting such changes and directing your readings accordingly.

Psychology 201 - Statistics for the Social Sciences
Recommended Chapter Questions (8th Ed.)

Complete the following questions at the end of each chapter. Try more questions if you need more practice. Appendix C provides solutions for odd numbered questions; solutions (including all the steps) to even numbered questions are on reserve in the library.

Chapter 1

1, 3, 4, 5, 6, 9, 10, 13, 15, 18 - 23

Chapter 2

2, 3, 6, 8, 12, 13, 14, 16, 19, 20

Chapter 3

2, 5-9, 16, 19, 20, 22, 23, 27

Chapter 4

1, 3, 5, 6, 10, 14, 17, 19, 20, 24

Chapter 5

1-4, 7, 11, 12, 16, 18, 20, 22, 23

Chapter 6

2, 3, 5, 6, 8, 9, 12, 14, 16, 20

Chapter 7

1, 3, 4, 6, 11, 15, 21, 23

Chapter 8

1-4, 7, 10, 15, 16, 17, 19, 20

Chapter 9

1, 2, 3, 5, 9, 12, 13, 17, 23

Chapter 10

1, 4, 9, 13, 15, 16, 18, 20, 23

Chapter 11

1, 3, 4, 5, 8, 10, 14, 20

Chapter 14

1, 2, 5, 8, 10, 11, 17, 19, 21, 24

Chapter 15

1, 2, 5, 8, 9