PSYC 300A A02 (13029)
Statistical Methods in Psychology I

Fall 2022

Course Prerequisites

The prerequisites for PSYC 300B include:
- PSYC 201 and the Academic Writing Requirement (AWR) fulfilled
- Recommended: Math 12 (Pre-Calculus) or MATH 120 or MATH 151 at UVic

Course Format

Lectures: We will meet three times per week for lectures. There will be opportunities during lectures to work on practice problems. It is recommended that you come prepared to do so (i.e., bring your calculator).

Labs: Most weeks will have a lab associated with it (see Class Schedule). The weekly labs will include guided activities for you to practice and apply the course content. You will be able to ask questions during lectures and labs. Please note, ***Labs are mandatory, and you must attend at least 50%*** of the labs or you will receive an N, in the course. You must attend the lab section you are registered in.

Brightspace

All course material, including lecture slides and weekly assignments, will be available through Brightspace. You can access our Brightspace page by logging in through MyPage or directly through bright.uvic.ca.

Textbook

There is no required textbook for this course. All required content will be delivered through lectures, assignments, and discussion of course concepts. If you are interested in having a supplemental text as a guide, I recommend the following **OPTIONAL** texts:

> Pagano, R. R. (2012). *Understanding statistics in the behavioral sciences* (10th edition). Belmont, CA: Wadsworth/Cengage Learning.

> (free) Navarro, D. (2019). *Learning statistics with R: A tutorial for psychology students andW'nBTCu B;Q92eW'nB4Q82eW'nB9T0B8jhB9TO*

COURSE REQUIREMENTS AND EVALUATION

Final grades will be calculated based on the following specific elements:

Evaluation	Date	% of Grade
Weekly Assignments (10)	Due by end of day each Friday	10%
Labs	Most weeks during lab sessions	10%
In-Class Activities	Throughout term	5%
Test #1 (topics 1-3)	Tuesday, October 4	15%
Test #2 (topics 4,5)	Tuesday, October 25	15%
Test #3 (topics 6-8)	Tuesday, November 15	15%
Final Exam (cumulative)	Saturday, December 10: 7:00 10:00PM	30%

Weekly Assignments

There will be ten (10) assignments throughout the term, each worth 1% of your total grade. Assignments are to be submitted by the **end of the day** on the day they are due. You will receive credit for completing assignments on time. Assignments will not be graded, but we will check your assignment for completeness and to ensure sufficient effort was given.

Note that the 10% for homework assignments are the easiest marks and most important work you will do. By doing them you will not only guarantee yourself 10/10 but you will be better prepa2I2Tf1 0 0 1 9.3o4

Tests/Exams

Tests and Exams will include calculations, short answer and multiple choice questions. **Bring Your Calculator**. Tests will focus on material covered since the last test but may require use of previous material (statistics knowledge is cumulative). Final Exam will be cumulative but will focus on material that has not yet been tested.

<u>*Missed Exams:*</u> It is your responsibility to attend in-class exams as scheduled. **There will be no make-up exams**. If you miss an exam due to illness, accident, or family affliction, you must notify me (via email or telephone message) on or before the exam date. If your justification for missing an exam is accepted, then you will be assigned a score based on the class average for that midterm and on how well you do, relative to the rest of the class, on the remaining exams. **If you miss two or more tests/exams you will receive an** .

<u>You must write the Final Exam to pass the course</u>. If you are unable to attend the final exam you must apply to Records Services for a
10 working days of the exam date. If an academic concession is granted for the final exam, an alternative date to write the make up

Course Completion Requirement

Students who have completed the following elements will be considered to have completed the course:

- Earn a minimum grade of 50% on the labs (note that grades are not rounded up)
- Complete at least two Midterm Exams
- Complete the Final Exam

Failure to complete one or more of these
cumulative percentage of all other elements in the course. N is a failing grade and factors into GPA as a value of 0.

In accordance with the _____
all course require
only request deferrals for the completion of required course components and not for non-essential course components.

Course Registration

It is your responsibility to check your registration status by the drop deadline to ensure that you are registered in the course.

- **September 20th** is the last day for 100% fee reduction
- **September 23rd** is the last day to add courses
    Undergrad course adds after this date will require an Undergraduate Course Change form and are subject to the approval of the Director of the Academic Advising Centre.
- **October 11th** is the last day for 50% fee reduction
- **October 31st** is the last day for withdrawing without academic penalty of failure
- University policy state that failing to attend lectures does not

TENTATIVE CLASS SCHEDULE

This is a guide only. Topics covered in class may not correspond exactly with this outline. You will be responsible for all material covered in class. I will keep to this schedule as closely as I can. You may notice that the lectures occur about 1 week before the assignments are due for any particular topic. This is to give you time to absorb that material, work on the assignment, ask questions if needed and finish all aspects of each assignment.

Week	Date	Lecture Topic	Lab
PART 1: UNIVARIATE STATISTICS			
1	Wed Sep 7	Topic 1: Introduction and Course Overview	*No Lab*
	Fri Sep 9	Topic 1: Scales of measurement; Variables	
2	Tues Sep 13		

Week	Date	Lecture Topic	Lab
PART 3: PROBABILITY AND INFERENTIAL STATISTICS			
8	Wed Oct 26	Topic 6: Empirical Distributions (normal curve; standard scores)	
	Fri Oct 28	Topic 6: Standard Scores; Random Sampling	
9	Tues Nov 1	Topic 7: Probability	*Distributions*
	Wed Nov 2	Topic 7: Probability (*asynchronous*)	
	Fri Nov 4	***In-Class Activity #3 (topics 6 & 7)*** **Assignment #6 Due: Distributions**	
10	Tues Nov 8	Topic 8: Hypothesis Testing	*No Lab*
	Wed Nov 9	***Reading Break (No Classes)***	
	Fri Nov 11	***Reading Break (No Classes)*** **Assignment #7 Due: Probability**	

UNIVERSITY OF VICTORIA

Department of Psychology
Important Course Policy Information
Winter Session 2022

Accessible Learning

The University of Victoria is committed to creating a learning experience that is as accessible as possible. If you anticipate or experience any barriers to learning in this course, please feel welcome to discuss your concerns with me. Ifrequirement set by instructor for lectures, lab3.4 (u)1e.1 (e)TJ0 Tc 0 T7 (u)1e.1 TJ0 Tc 0 Tw 23.566 0 Td( )Tj-0.004 Tc 0.004 Tw 0.22

Copyright

All course content and materials are made available by instructors for educational purposes and for the exclusive use of students registered in their class[1]. The material is protected under copyright law, even if not marked with ©. Any further use or distribution of materials to others requires the written permission of the instructor, except under fair dealing or another exception in the Copyright Act. Violations may result in disciplinary action under the **Resolution of Non-Academic Misconduct Allegations policy (AC1300)** or the **Academic Integrity Policy**, whichever is more appropriate for the situation.

Course Experience Survey (CES)

I value your feedback on this course. Toward the end of term, you will have the opportunity to complete a confidential course experience survey (CES) regarding your learning experience. The survey is vital to providing feedback to the instructor regarding the course and their teaching, as well as to help the department improve the overall program for students in the future. When it is time for you to complete the survey, you will receive an email inviting you to do so. If you do not receive an email invitation, you can go directly to

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Policy on Academic Integrity including Plagiarism and Cheating

The Department of Psychology fully endorses and intends to enforce rigorously the <u>Senate Policy on Academic Integrity</u>. It is of utmost importance that students who do their work honestly be protected from those who do not. Because this policy is in place to ensure that students carry out and benefit from the learning activities assigned in each course, it is expected that students will cooperate in its implementation.

The offences defined by the policy can be summarized briefly as follows:

1. **Plagiarism**. You must make sure that the work you submit is your work and not someone else's. There are proper procedures for citing the works of others. The student is responsible for being aware of and using these procedures.

2. **Unauthorized Use of an Editor**. The use of an editor is prohibited unless the instructor grants explicit written authorization.

3. **Multiple Submission**. Only under exceptional circumstances may a work submitted to fulfill an academic requirement be used to satisfy another similar requirement. The student is responsible for clarifying this with the instructor(s) involved.

4. **Falsifying Materials Subject to Academic Evaluation**. This includes falsification of data, use of commercially prepared essays, using information from the Internet without proper citation, citing sources from which material is not actually obtained, etc.

5. **Cheating on Assignments, Tests, and Examinations**. You may not copy the work of others in or out of class; you may not give your work to others for the purpose of copying; you may not use unauthorized material or equipment during examinations or tests; and you may not impersonate or allow yourself to be impersonated by another at an examination. The Department of Psychology has a policy of not making old examinations available for study purposes. Therefore, use of old exams without the express written permission of the instructor constitutes cheating by the user, and abetting of cheating by the person who provided the exam.

6. **Aiding Others to Cheat**. It is a violation to help others or attempt to help others to engage in any of the conduct described above.

Instructors are expected to make every effort to prevent cheating and plagiarism. This may include the assignment of seating for examinations, asking students to move during examinations, requests to see student identification

Prerequisites

Students who remain in courses for which they do not have the prerequisites do so at their own risk. Students who complete courses without prerequisites ARE NOT exempt from having to complete the prerequisite course(s) if such courses are required for the degree program.

Program Requirements

For more information see the **UVic Calendar**.

Registration Status

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A note to remind you to take care of yourself. Do your best to maintain a healthy lifestyle this semester by eating well, exercising, getting enough sleep and taking some time to relax. This will help you achieve your goals and cope with stress. All of us benefit from support during times of struggle. You are not alone.

Social Life, Friends, & Community at UVic:
Having a social network is an extremely important foundation for positive mental health. There are lots of benefits to joining clubs, course unions, intramurals and teams on campus.
https://www.uvic.ca/mentalhealth/undergraduate/connecting/index.php

Counselling Services:
Counselling Services can help you make the most of your university experience. They offer free professional, confidential, inclusive support to currently registered UVic students. www.uvic.ca/services/counselling/

Health Services:
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