Psychology 300B (A01) – Statistical Methods in Psychology II
Summer 2018 (July-August)
M/W 12:30am-2:20pm, DTB A102
F 12:30-1:20, Cor B135

Instructor: Iris Gordon
Office: Cornett A215
E-mail: igordon@uvic.ca
Office hours: Wednesday 2:30 – 3:30 pm

Teaching Assistant: Taylor Agate
Office: Cornett A051
E-mail: tagate@uvic.ca
Office hours: Thursday 1:00- 2:00 pm

What is this course about?
This course is designed to give students both a better conceptual and practical understanding of statistics used in psychology research. Students will learn how to apply, interpret and report statistical findings. We will meet three times a week, and meetings will include lectures, discussions, in-class exercises and computer-lab experience.

The goal of this course is for you to become an intelligent, critical consumer of statistical claims. By the end of this course, you should be able to:
- Explain the logic underlying statistical procedures
- Understand the theory related to statistical computation
- Apply the appropriate statistical analyses needed to test specific hypotheses
- Communicate statistical findings in an intelligent and APA manner

Before you take this course, make sure you have completed the following:
- Psyc 300A
- core requirements for Psychology Majors/Honours OR declared Major/ Honours in Linguistics (BSc)

Please note that the course add/drop deadline is July 21st! It is the student’s responsibility to check their registration status by the drop deadline to ensure they are registered only in courses they have been attending!

Materials: What you will need for this course

Required Technology:
- A simple (if not more fancy) calculator that has a square-root key and a memory key. NO GRAPHING CALCULATORS. You will be allowed to use calculators during exams and during class exercises as well.
Optional (but highly recommended) text:


Please note: basic statistics for psychology hasn’t changed much in the past 50 years or so, thus any statistics text makes a wonderful resource. The Instructor has a desk copy of the above available for browsing.

Computer Software
The research project (and some homework) will require the use of computers, thus we will be using SPSS as the software program. SPSS is available for PC or MAC, and can be found on the computers in the B&E Building (basement), in Clearihue A105 and in the Human and Social Development building (basement). In order to gain familiarity with this program, computer-lab sessions have been booked and students will be introduced to the functions required to complete the research report.

How will your progress be evaluated?

Final grades will be based on the following criteria:

<table>
<thead>
<tr>
<th>Percent of Grade</th>
<th>Evaluation Tool</th>
<th>Date(s)</th>
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<tbody>
<tr>
<td>0%</td>
<td>Syllabus Quiz</td>
<td>No access to materials until this is complete</td>
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<tr>
<td>20%</td>
<td>Mid-term #1</td>
<td>July 20th</td>
</tr>
<tr>
<td>20%</td>
<td>Mid-term #2</td>
<td>August 3rd</td>
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<tr>
<td>25%</td>
<td>Final (cumulative)</td>
<td>August 20th</td>
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<tr>
<td>15%</td>
<td>Workshop activities</td>
<td></td>
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<tr>
<td>2%</td>
<td>Bonus</td>
<td>See CourseSpaces</td>
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Grading Criteria

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<thead>
<tr>
<th>Grade</th>
<th>Mark</th>
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<tr>
<td>A+</td>
<td>90-100</td>
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<tr>
<td>A</td>
<td>85-89</td>
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<tr>
<td>A-</td>
<td>80-84</td>
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<tr>
<td>B+</td>
<td>77-79</td>
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<tr>
<td>B</td>
<td>73-76</td>
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<tr>
<td>B-</td>
<td>70-72</td>
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<tr>
<td>C+</td>
<td>65-69</td>
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<tr>
<td>C*</td>
<td>60-64</td>
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<td>D</td>
<td>50-59</td>
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<tr>
<td>F</td>
<td>0-49</td>
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* A minimum grade of 60% is required as credit toward a Psychology Degree.

Midterms
Midterms will consist of a mixture of multiple choice, true/false, fill in the blank, short answer and computation questions. Midterms will be worth 65% of your grade. Please note that holiday trips, weddings, and other summer courses are not acceptable excuses for missing midterms.

Midterm Policies
1. “*The Iris Special*”: In order to alleviate some test anxiety, the weight of your best midterm will be increased by 3% while the weight of your worst midterm will be decreased by 3%.
2. **Midterm Absences:** You are responsible for attending exams as scheduled. If you miss an exam due to illness, accident, or a death in the family, you must supply:
   - documentation for your absence (e.g. doctor's note, obituary, etc.) **dated within 2 days** of missing the exam.
   - must include a statement declaring (e.g.) *there is evidence to substantiate this claim.* (please see UVic Health-Services documentation format)
   - Medical documentation must be provided by an M.D., **not** a practitioner (i.e. physiotherapists, chiropractors, midwives, etc.)

If documentation is not accepted, you will receive a “0” for the midterm. Students who do not provide any documentation will receive an “N” in this course.

**Midterm 1 & 2**
You are responsible for attending exams as scheduled. **NO make-up exams will be given.** If you do miss an exam:
   - you must supply documentation for your absence (i.e. doctor’s note) **within 5 days of** missing the exam.
   - If documentation is approved, then the remaining midterm grades will be **prorated.** For example, if Midterm 1 is missed, then an extra 10% will be added to the weight of Midterm 2 (22%) and 10% will be added to the Final (35%).

**If you miss both midterms, you will not be permitted to write the Final Exam and will receive an “N” in this course.**

**Final Exam**
If you are unable to attend the final exam you must apply to Records Services for a “Request for Academic Concession”, **typically within 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 exam must be arranged with the instructor.

**If you do not take the final exam, you will received an “N” in this course regardless of the course percentage earned up until the exam.**

All grades will be posted on CourseSpaces following each exam. Please take the time to check this posting to make sure the grade is correct.

**Research Project Report (20%)**
An original research report is required for successful completion of this course. You will work in groups to create your own study following the guidelines on CourseSpaces “Research Project”. You will be provided with a data set unique to your study, and your grade will be determined in-part by your group members’ assessment of your participation.

**If you do not turn in the research project paper, you will receive an “N” in this course.**
Workshop Activities (15%)
Math is about doing. You will be given ample opportunity to practice carrying out statistics both in-person and on the computer. In-class exercises will be completed in groups, whereas homework assignments can be done together or in solitude.

- **In-class exercises**: There will be 8 in-class exercises. These will be marked for completion. No “make-up” exercises will be given, and no opportunities to complete them on your own will be permitted.

- **Homework Assignments**: There will be 9 activities. You will be required to submit your answers on Coursespaces, and achieve at least a 50% on an activity to receive your credit. No late submission will be accepted.

In order to receive full points, you will only need to complete 15 of the 17 activities; this allows students to miss up to 2 activities due to illness or extraneous circumstances without penalty.

**Bonus (2%)**
4 SONA credits OR art project (see Coursespaces).

What Else Can You Do to Succeed in The Course?

**Conduct yourself appropriately.**
The University of Victoria is committed to promoting, providing and protecting a safe learning and working environment for all its' members. We are all very diverse and come from all walks of life, have different values, beliefs, and opinions. Please maintain an open mind to these differences when interacting with others and remain respectful at all times.

Respect also includes creating an environment conducive to learning, which means being on time, not leaving class early, turning off cell phones, listening, not speaking to others during lecture, and only using computers to take notes and not to check e-mail or surf the web. Please note, in order to facilitate an optimal learning environment, **individuals using laptops will be asked to sit in a designated area (“laptop land”).**

**Check the study tips.**
In line with tried-and-true methods of learning theory, there are several study methods you can engage in to optimize your learning. These tips are posted on Coursespaces for your convenience.

**We are available to help.**
If you have any questions regarding course content, or would like to discuss course material, we are available to help via e-mail and office hours. **When e-mailing the Instructor or the TA, please include “psych300B” in your subject headline or the e-mail will not reach us!** No appointment is necessary for attending regular scheduled office hours.

The Instructor will be available during office hours to discuss your grades, understanding of the material, or discuss more general topics about psychology and statistics. The TA can also provide assistance in learning/understanding course material. Please be advised the TA has no power to change grades or postpone due-dates; the TA is a learning resource.
Go to the Math and Statistics Assistance Centre. Work on your homework assignments at the center and get immediate help when you’re stuck on a problem or concept. Please go to: [http://www.math.uvic.ca/~msassist/index.html](http://www.math.uvic.ca/~msassist/index.html) for more information on their hours and location.

**Tentative Course Schedule**

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<tr>
<td></td>
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<td>4(^{th})</td>
<td>Introductions</td>
<td>5(^{th})</td>
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<td>9(^{th})</td>
<td>10(^{nd})</td>
<td>Topic 1: IV/DV</td>
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<td>12(^{th})</td>
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<td>Topic 4: Independent Samples</td>
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<td>21(^{st})</td>
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<td>Topic 5: Variability</td>
<td>Topic 6: Power</td>
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<td>22(^{nd})</td>
<td>23(^{rd})</td>
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<td>29(^{th})</td>
<td>30(^{th})</td>
<td>31(^{st})</td>
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<td>2(^{nd})</td>
<td>3(^{rd})</td>
<td>4(^{th})</td>
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<tr>
<td>Topic 8: HT Multiple Comparisons</td>
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<td>Topic 9: HT Multifactorial Design</td>
<td>Midterm 2</td>
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<td>5(^{th})</td>
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<td>BC Day</td>
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<td>Topic 9: HT Multifactorial Design</td>
<td>Topic 10: HT Interactions</td>
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<td>Topic 11: HT Frequency Data</td>
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<td>Topic 11: HT Frequency Data</td>
<td>Project Due</td>
<td>Catch-up/Review</td>
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<tr>
<td>19(^{th})</td>
<td>20(^{th})</td>
<td></td>
<td>Final Exam</td>
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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 pages 310-313 of the UVic Calendar, May 2018.

Registration Status

Students are responsible for verifying their registration status. Registration status may be verified using My Page, View Schedule. Course adds and drops will not be processed after the deadlines set out in the current UVic Calendar.

Commitment to Inclusivity and Diversity

The University of Victoria is committed to promoting, providing and protecting a positive and supportive and safe learning and working environment for all its members.

In the Event of Illness, Accident or Family Affliction (See UVic Calendar, May 2018, p. 50)

- What to do if you miss the final exam scheduled during the last day of classes

Apply at Records Services for a “Request for Academic Concession”, normally within 10 working days of the date of the exam. Records Services will forward the form to the instructor. If the concession is granted, the instructor will determine how to deal with the situation (for example, a deferred exam). Where a concession is not applied for or where such application is denied, an N grade will be entered on the student’s academic record.

OR, you can download the Request for Academic Concession form here:
http://www.uvic.ca/registrar/assets/docs/record-forms/rac.pdf

- What to do if you miss an exam other than one scheduled during the last day of classes

Do not apply at Records Services for a “Request for Academic Concession”. Instead submit documentation of the illness, accident or family affliction directly to your course instructor (or designated teaching assistant).

- What to do if you require additional time to complete course requirements

Apply at Records Services for a “Request for Academic Concession”, normally within 10 working days of the end of the course. Records Services will forward the form to the instructor. If the concession is granted, the instructor will determine how to deal with the situation (for example, a deferred exam). Where a concession is not applied for or where such application is denied, an N grade will be entered on the student’s academic record.

OR, you can download the Request for Academic Concession form here:
http://www.uvic.ca/registrar/assets/docs/record-forms/rac.pdf
**Policy on Academic Integrity including Plagiarism and Cheating**

The Department of Psychology fully endorses and intends to enforce rigorously the Senate Policy on Academic integrity [https://web.uvic.ca/calendar2018-05/undergrad/info/regulations/academic-integrity.html](https://web.uvic.ca/calendar2018-05/undergrad/info/regulations/academic-integrity.html), p. 45-47, UVic Calendar May 2018). 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. **Being an Accessory to Offences.** This means that helping another student to cheat (for instance, by showing or communicating to them answers to an assignment, or by allowing them to view answers on an exam) is an academic offence.

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 cards, and other measures as appropriate. Instructors also have available to them a variety of tools and procedures to check for Internet and electronic media-based cheating. In instances of suspected or actual plagiarism or cheating, instructors, following prescribed procedures, are authorized to take steps consistent with the degree of the offence. These measures will range from a zero on the test or assignment or a failing grade for the course, probation within a program to temporary or even permanent suspension from the University.

Rights of Appeal are described in the Policy on Academic Integrity in the University calendar (on p. 45-47, May 2018).

The definitive source for information on Academic Integrity is the University Calendar (p. 45-47, May 2018) [https://web.uvic.ca/calendar2018-05/undergrad/info/regulations/academic-integrity.html](https://web.uvic.ca/calendar2018-05/undergrad/info/regulations/academic-integrity.html)

Other useful resources on Plagiarism and Cheating include:

1. The Study Solutions Office: [https://www.uvic.ca/services/counselling/success/study/index.php](https://www.uvic.ca/services/counselling/success/study/index.php)
2. The Ombudsperson’s office: [http://www.uvss.uvic.ca/ombudsperson/pubsquides/plagiarism.pdf](http://www.uvss.uvic.ca/ombudsperson/pubsquides/plagiarism.pdf)
3. UVic Library Resources: [http://www.uvic.ca/library/research/citation/plagiarism](http://www.uvic.ca/library/research/citation/plagiarism)