PSYCHOLOGY 300B – Section A01
Statistical Methods in Psychology II
Spring (Jan. - Apr.) 2018 : CRN 22596

Time: TWF 9:30 am – 10:20 am
Room: COR B143

Instructor: David Medler
Office: COR A277
Office Hours: By Appointment
Phone: 250-721-6108 (email is preferable)
Email: dmedler@uvic.ca

Teaching Assistant: Tom Ferguson
Office: COR A051 / MCK 021
Office Hours: By Appointment
Phone: (email is preferable)
Email: tomferg@uvic.ca

Required Text: Psyc 300B CoursePack, from the CourseSpaces website

OPTIONAL TEXT: Howell, David C. (2017/2014). Fundamental Statistics for Behavioral Sciences (9th/8th Edition). May be on reserve in library. This text is for supplemental reading and supplemental homework. No material from the optional text will be examined.

PREREQUISITES and REGISTRATION
The prerequisites for Ψ300B include:

1. The completion of Psychology 300A with a minimum grade of 50%. This is non-negotiable.
2. The completion of core requirements for Psyc majors & Honours, or declaration of Major or Honours in program in Linguistics (BSc).

NOTE regarding registration. Registered students who do not attend at least one class during the first two scheduled class sessions may be dropped from the class. Priority for waitlisted students will be given to those students who have met all course pre-reqs and attended the first two class sessions. Students are responsible for checking their registration status before the end of the course change period (January 19, 2018). Students will not be added to the course after this time.

COURSE MATERIAL for 300B on UVic’s CourseSpaces site:
All course material, including detailed lecture notes and the full course syllabus, is available through CourseSpaces. This site will have all course lecture material with the accompanying overheads that are presented in class. It will also have class exercises and homework assignments and their respective answer keys. Files are in pdf format.

COURSE OBJECTIVES
1. To gain conceptual understanding of statistical analyses to advanced research designs.
2. To gain practical experience in the interpretation and communication of statistical analysis in a manner appropriate for those involved in psychological research.

TOPICS COVERED
Measurement (independent & dependent variables); Power; Inferential analysis for research designs under the Random Sampling Model of Hypothesis Testing. Research designs include related-samples, bivariate correlation, independent samples for $k = 2, \ k > 2,$ & multi-factorial. Other topics include multiple comparisons, options for analyzing data when assumptions are violated, and analysis of frequency data.

COURSE FORMAT
Course material will be presented in 5 discrete sections through text readings, lectures, graded in-class group activities, graded homework assignments, and a course research project. At the start of each new section, you will receive a Class Prep outline that will detail the text readings for each day and the material you are expected to know prior to the in-class exercises. Answer keys for exercises & homework will be available through the web site. It is assumed that you have read the relevant course material prior to each lecture.
COURSE EVALUATION
Comprehension of course material will be assessed through performance on…

(a) 2 midterm exams (each worth 15% of your final grade),
(b) a cumulative final exam (25%),
(c) a research report (20%),
(d) graded in-class assignments (5%),
(e) online quizzes (10%)
(f) iClicker responses (5%). &
(g) Graded Homework Assignments (5%)

GRADING (% of total marks)
Effective May 1, 2014, the letter grading system previously used at UVic was discontinued. Your final grade will be a straight percentage. Your final grade will be rounded at the 0.5% level (e.g., 84.50 will be rounded to 85; 84.49 will be rounded to 84.00). Rounding will only occur for the final grade.

NOTE: All deadlines & grades submitted for exams & various assignments are final. There are no make-up assignments, no make-up exams, no bonus or extra assignments that you can do post-hoc to alter your grades. The time to invest in achieving the best possible grade is during the course, not afterward.

EXAMS: There are a total of two midterms exams, each worth 15%, and one cumulative Final Exam worth 25%. Midterms will be written in class and will be 45 minutes each. The Final Exam will be scheduled during the formal exam period in April. All grades will be posted on CourseSpaces following each exam. It is your responsibility to check this posting to be sure the grade is correct.

Dates of Exams:
Exam 1: January 30 (Tuesday)  Exam 2: March 6 (Tuesday)
Final Exam: T.B.A.

Exam Format: Short answer and computational with emphasis on conceptual mastery of statistical material. Each exam will cover material from the text, class lectures, class exercises and relevant homework assignments.

POLICY ON MISSED EXAMS: (Please read as this is important!)

Midterms: You are responsible for attending the in-class midterms as scheduled. NO make-up midterms will be given. If you miss a midterm due to illness, accident, or family affliction, you must send me an email as soon as possible indicating that you have missed the midterm, and the reason for it. You must then supply written support for your absence (e.g., doctor’s note) within 10 days of missing the midterm.

In the case of illness, documentation should be dated within two days of the missed midterm, or earlier indicating that you are likely ill for a couple of days, including the date of the midterm. If you are too sick to attend the midterm, then you should see a doctor as soon as possible! Except in extreme circumstances (e.g., life-threatening illness) Medical Documentation dated after two days past the midterm date WILL NOT BE ACCEPTED.

If your documentation is accepted for the missing midterm, then a grade for that midterm will be generated by weighting your grades from the remaining midterms and final exam. Students who miss two midterms will receive a grade of “N” in the course as they will be deemed to have missed too much of the course material to have met course completion requirements.

Final Exam: If you are unable to attend the final exam you must apply to Records Services for a “Request for Academic Concession” (RAC), 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. Any student who does not take the final exam will receive an “N” in this course. The final, unlike the other three exams, will not be extrapolated and MUST be taken.

Link for RAC – https://www.uvic.ca/registrar/students/policies/appeals/rac-request.php
## TENTATIVE COURSE SCHEDULE

<table>
<thead>
<tr>
<th>WEEK</th>
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<th>CHAPTER / LECTURE TOPIC</th>
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<td>17-Jan</td>
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<td>30-Jan</td>
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<td>Exam #1 (Lectures 1 – 4, Class Exercise #1 &amp; #2, Homework)</td>
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<td>Lecture 7: Hypothesis Testing – Multigroup Design</td>
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<td>Lecture 8: Multiple Comparisons</td>
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<td>Exam #2 (Lectures 5 – 8, Class Exercise #3 &amp; #4, Homework)</td>
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<td>09-Mar</td>
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<td>Lecture 9. Hypothesis Testing: Multi-Factorial Designs</td>
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<td>20-Mar</td>
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<td>Lecture 10: Interactions in Factorial Designs</td>
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<td>Lecture 12: Analysis of Frequency Data</td>
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<td>04-Apr</td>
<td>Wednesday</td>
<td>Lecture 12: Analysis of Frequency Data</td>
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<td>06-Apr</td>
<td>Friday</td>
<td>Class Exercise #6</td>
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APPLICATION OF COURSE MATERIAL

Homework Assignments: You will be given 6-7 graded homework assignments worth a total of 5% of your final grade. The homework will provide you with opportunities to test your mastery of the material. There is simply NO substitute for wrestling a statistics problem to the ground yourself in order to understand the material. You will be required to enter your answers to the homework questions on CourseSpaces. Once you have entered your answers, answer keys will be provided. The lowest homework grade will be dropped.

Class Exercises: To further facilitate your integration of the course material, you participate in GRADED class exercises. You will be assigned to groups with 5-6 members, and you will work together to complete these exercises over the term. Each group member is expected to contribute equally to the final product. If a person has concerns regarding the contribution of one or more members of the group she or he should speak to Dr. Medler; it is possible to request re-assignment to a different group. You are expected to be prepared for the class exercises. Each assigned exercise is worth equal points. Your worst exercise will automatically be dropped when computing the contribution of exercises to your final grade.

Note: If you miss a class exercise, there are NO “make-up” exercises, nor are there opportunities to complete an exercise on your own for a grade.

iClicker Responses: In order to assess concept attainment in class, iClickers will be used during the lectures. You will be graded on your correct responses. Each correct iClicker response will be worth 0.1% of your total grade, to a maximum of 5%. It is expected that there will be approximately 60+ iClicker questions distributed throughout the term, which means that you should bring your iClicker to every class. As only the top 50 iClicker points count towards your final mark, there are no make-up questions, etc.

Research Project Report: An original research report is REQUIRED for successful completion of this course. This term you will have the opportunity to create your own study following the guidelines on CourseSpaces, “Research project”. You will be provided with a data set unique to your study. If you do not turn in the research project paper you will receive an “N” in this course.

MISSED A CLASS?

Get notes from a classmate; lectures typically cover some, but not all, of the material in the CoursePack. All material distributed in class (e.g., class exercises) is also available on CourseSpaces.

STUDY GROUPS?

Working together in groups of 2 to 4 people on a regular basis (not just the day before the exam!) is helpful for some people. It is perfectly acceptable for a study group to come for assistance “en masse” during pre-arranged office hours.

COMPUTER SOFTWARE PROGRAM FOR STATISTICAL ANALYSIS

Some homework assignments require the use of computers. We will use SPSS (version 24.0) as the software program for statistical analysis. SPSS can be used with either a MAC or a PC. Work stations are available in the Computer labs in the B&E Building (basement), in Clearihue A105 and in the Human and Social Development building (basement). Additional support services for SPSS are available through the HELP menu function of the program. It is essential that you gain some level of familiarity and comfort in using this computer software as we will be using it in Psyc 300B for our final project.

GENERAL STATEMENT OF BEHAVIOURAL EXPECTATIONS

The University of Victoria is committed to promoting, providing & protecting a positive, supportive, and safe learning and working environment for all its members, and so am I. If you have any concerns regarding the requirements or activities that are intrinsic to Psyc 300B, please see me in the first week of the academic term.

Class Attendance: In accordance with the Academic Calendar, attendance at and participation in all class sessions is assumed and expected. If you arrive late for class, you may be refused admission to the class. If you arrive late for exams/assignments, you may be refused the opportunity to write or may receive a 0.

Refer to the relevant Class Prep handout, and the CourseSpaces site, for updated information.
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 305-308 of the UVic Calendar January 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, January 2018, p. 46-47)

• What to do if you miss the final exam scheduled during the formal exam period

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 formal exam period

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/calendar2018-01/undergrad/info/regulations/academic-integrity.html#), p. 42-45, UVic Calendar January 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 offenses 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. 43-44 in January 2018).

The definitive source for information on Academic Integrity is the University Calendar (p. 42-45 in January 2018) (https://web.uvic.ca/calendar2018-01/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
2. The Ombudsperson’s office: http://www.uvss.uvic.ca/ombudsperson/pubsguides/plagiarism.pdf
3. UVic Library Resources: http://www.uvic.ca/library/research/citation/plagiarism/