Psych 3600 – Statistics  
Summer Semester, 2015  
Mondays and Wednesdays, SS 323

Professor: Shannon McGillivray, Ph.D.  
Email: smcgillivray@weber.edu  
Office Hours: Monday and Wednesday 1:15-2:20 & by appointment  
Office Location: 368 SS Building  
Office Phone: 801-626-7867  
Course Website - CANVAS: https://weber.instructure.com/login  
Textbook Website: www.mystatlab.com

Course Description – Why Study Statistics?
A. Statistical methods are essential tools used in most psychological research (including in clinical and other areas of applied psychology). Therefore:
   • This course prepares you for later psychology courses, which usually require reading research articles.  
   • This course prepares you for more advanced statistics courses, which equip you to use statistics in research you conduct yourself.  
B. This course often meets a general education requirement in quantitative reasoning.  
   • Psychological statistics involves abstract logical and numeric methods.  
   • Mastering these methods develops your ability to think clearly and very precisely about these kinds of abstractions—something every educated person ought to be able to do.  
C. By the end of this semester you will be able to:
   • Know both definitional and numerical formulas and how to apply them  
   • Understand the logic behind each formula  
   • Identify the appropriate statistical procedure for many basic research situations and to carry out the necessary computations.  
   • Understanding the relationship between statistical analysis and hypothesis testing.  
   • Learn how to use and interpret SPSS

Getting the Most out of the Course
In order to get the most out of this course you should come to each class and come prepared. This means that you should do the readings, do the homework, take notes, and be ready to participate in discussions and activities. I will be posting my lecture slides on the course website (CANVAS) by the night before each lecture. At times, I will post lectures for the entire week. To make note-taking much easier in class, it is a good idea to print these out and bring them with you to class. Please note that you can print out slides in ‘handout’ form that can allow you to have multiple slides printed on one page. Keep in mind that I will be expanding on the slide content during class and going through examples, so the posted-lecture slides should NOT be considered sufficient to understand all that will be covered in lecture.
Required Text
Authors: Aron, Coups, and Aron
Website: www.mystatlab.com

*You will also need to have a calculator for this class. Calculators will be allowed on exams, but not the calculator in your smartphone. You will need to borrow/purchase one that is not an app in a phone.

To register for Psy 3600 - Statistics:
2. Under Register, click Student.
3. Enter your instructor’s course ID: mcgillivray34894, and click Continue.
4. Sign in with an existing Pearson account or create an account:
   · If you have used a Pearson website (for example, MyITLab, Mastering, MyMathLab, or MyPsychLab), enter your Pearson username and password. Click Sign in.
   · If you do not have a Pearson account, click Create. Write down your new Pearson username and password to help you remember them.
5. Select an option to access your instructor’s online course:
   · Use the access code that came with your textbook or that you purchased separately from the bookstore.
   · Buy access using a credit card or PayPal.
6. Click Go To Your Course on the Confirmation page. Under MyLab & Mastering New Design on the left, click Psy 3600 - Statistics to start your work.

To sign in later:
2. Click Sign in.
3. Enter your Pearson account username and password. Click Sign in.
4. Under MyLab & Mastering New Design on the left, click Psy 3600 - Statistics to start your work.

Additional Information
See Students > Get Started on the website for detailed instructions on registering with an access code, credit card, PayPal, or temporary access.
Course Requirements

Exams (45%)
There will be a total of 3 exams given throughout the semester. All of the material from the readings and lectures is fair game on the exams. The EXAMS ARE NOT CUMULATIVE, and thus only consist of material covered since the previous exam. However, many of the formulas and concepts build on what is covered in earlier chapters. The exams will be administered through Weber State’s Testing Center. EXAMS WILL ONLY BE AVAILABLE AT THE SOCIAL SCIENCE BUILDING TESTING CENTER located in the basement of this building. The testing center hours are Monday–Thursday 8:30am-6:30pm, Friday 8:30am-4:30pm, and Saturday 10:30am-4:30pm. To take an exam you must have a valid form of ID (driver’s license, student ID) and show up to the testing center on the correct date(s). You will not be allowed to take the exam if you do not have an ID or if you show up after the posted and allowed hours. No make-up exams will be given. However, if you know you are going to be out of town for the dates of a posted exam, we can make arrangements for you to take the exam early.

Homework (30%) 
There are homework problems for each chapter. These homework assignments are administered online through MyStatLab. In order to receive full credit, you need to complete all problems assigned before the posted due date. The dates of homework assignments are on the class schedule. You may miss ONE homework assignment without penalty. Each homework assignment is worth 3% of your overall final grade, and must be fully completed. Given the pace of this course, late homework assignments will not be accepted. However, if you miss a homework assignment it is STRONGLY recommended that you complete the problems regardless as they will help you prepare for the exam.

Quizzes (15%)
There will be a total of 11 quizzes administered through the semester. These are the “post-tests” administered through the MyStatLab site. You MUST COMPLETE THE HOMEWORK FOR THE CHAPTER BEFORE TAKING THESE QUIZZES. The purpose of these quizzes is to prepare you for the actual exam. You may use your book/notes while taking these quizzes. These quizzes are graded, and there is a quiz for each chapter. The dates of quizzes are on the class schedule. Each quiz will consist of a series of questions from the chapter we have just completed. Your 3 lowest quiz grades will be dropped. No make-up quizzes will be given. You will not be allowed to take the quiz after the posted closing date.

SPSS Assignments (10%)
For many, but not all of the chapters we will be in the computer lab and you will be required to complete an assignment/activity and/or answer questions about data using SPSS (our statistical analysis software). More information will be provided about each particular assignment as the semester progresses. Most of the assignments/activities will be done in class, time permitting. There may be times that you are required to complete an assignment outside of class. You may miss up to 2 of these assignments without penalty. Please keep in mind a majority of the SPSS activities will be done in class, so if you do not come to class you will receive a 0 on this portion of your grade.
Grading

A = 92-100%  A- = 90-91%
B+ = 88-89%  B = 82-87%  B- = 80-81%
C+ = 78-79%  C = 72-77%  C- = 70-71%
D+ = 68-69%  D = 62-67%  D- = 60-61%
E = 59% or below

**If needed a curve will be applied to the course**

A = 20%  B = 30%  C = 40%  D/F = 10%

In the event that less than 20% of the students earn A’s, this curve will be applied. **I will only curve up and never down.** This means that a curve, if applied, will only help your score.

Additional Course Policies

Special Accommodations
Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in Room 181 of the Student Services Center (or Room 221 at the Davis Campus). SSD can also arrange to provide course materials (including this syllabus) in alternative formats upon request.
You can contact SSD by phone: 801-626-6413 or email: ssd@weber.edu

Academic Dishonesty
Academic dishonesty such as cheating or plagiarism will not be tolerated in this class, nor is it tolerated anywhere at Weber. If you are caught you will be immediately reported to the Dean of Students which could result in your expulsion from the university.

Emergency Closure Policy
If for any reason the university is forced to close for an extended period of time, we will conduct our class via email and CANVAS. Look for announcements on Weber e-mail. Code Purple is a good way to be alerted to campus closures, and you are encouraged to sign up for it.
### Class Schedule and Assignments

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
<th>Assignment Due Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mon 5/11</td>
<td>Introduction to the Course Tables and Graphs</td>
<td>Chap. 1</td>
<td></td>
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<tr>
<td></td>
<td>Wed 5/13</td>
<td>Central Tendency and Variability</td>
<td>Chap. 2</td>
<td>Chp 1 HW DUE 5/13 6pm</td>
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<td>Chp 1 Quiz DUE 5/15 11:59pm</td>
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<td>Mon 5/18</td>
<td>Inferential Stats</td>
<td>Chap. 3</td>
<td>Chp 2 HW and Chp2 Quiz DUE 5/17 11:59pm</td>
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<td>Wed 5/20</td>
<td>Hypothesis Tests</td>
<td>Chap. 5</td>
<td>Chp 3 HW DUE 5/20 6pm</td>
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<td>Chp 3 Quiz DUE 5/20 11:59pm</td>
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<td>Chp 5 HW AND Chp 5 Quiz DUE 5/21 11:59pm</td>
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<td><strong>Exam 1 Open Thursday 5/21 through Tuesday 5/26</strong></td>
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<td>Mon 5/25</td>
<td>Memorial Day – no class</td>
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<td>Wed 5/27</td>
<td>Statistical Significance</td>
<td>Chap. 6</td>
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<td>3</td>
<td>Mon 6/1</td>
<td>Introduction to t-Tests</td>
<td>Chap. 7</td>
<td>Chp. 6 HW AND Chap 6 Quiz DUE 5/31 11:59pm</td>
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<td>Wed 6/3</td>
<td>Independent Samples t-Tests</td>
<td>Chap. 8</td>
<td>Chp. 7 HW DUE 6/3 6:00pm</td>
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<td>Chp 7 Quiz DUE 6/3 11:59pm</td>
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<td>Chp. 8 HW AND Quiz DUE 6/4 11:59pm</td>
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<td><strong>Exam 2 Open Thursday 6/4 through Saturday 6/6</strong></td>
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<td>4</td>
<td>Mon 6/8</td>
<td>ANOVAs</td>
<td>Chap. 9</td>
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<td>Wed 6/10</td>
<td>Factorial ANOVAs</td>
<td>Chap. 10</td>
<td>Chp. 9 HW DUE 6/10 6pm</td>
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<td>Chp 9 Quiz DUE 6/12 11:59pm</td>
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<td>Mon 6/15</td>
<td>Factorial ANOVAs cont.</td>
<td>Chap. 10</td>
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<td>Wed 6/17</td>
<td>Correlation</td>
<td>Chap. 11</td>
<td>Chp. 10 HW DUE 6/17 6pm</td>
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<td>Chp 10 Quiz DUE 6/19 11:59pm</td>
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<td>Mon 6/22</td>
<td>Prediction and Regression</td>
<td>Chap. 12</td>
<td>Chp. 11 HW AND QUIZ DUE 6/21 11:59pm</td>
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<td>Wed 6/24</td>
<td>Wrap up lecture – review</td>
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<td>Chp. 12 HW DUE 6/24 6pm</td>
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<td>Chp 12 Quiz DUE 6/25 11:59pm</td>
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<td><strong>Exam # 3 open Thursday 6/25 through Saturday 6/27</strong></td>
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*Please note due dates and assignments are subject to change in order to accommodate the pace of the course.*