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**Psychology 3600: Statistics in Psychology**  
**Summer 2010**  
**MWF 10:30 - 12:20**  
**SS 323**

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**Professor:** Dr. Aaron Ashley

**Office:** SS 360

**Email:** AaronAshley@weber.edu

**Phone:** (801) 626-8743

**Office Hours:** M-F: 9:30 – 10:30

Please note: This email address is the best way to contact me. You should, however, only your Weber State email account to contact me, because the Weber State mail system is likely to quarantine your email, and I will probably not open email from or respond to non-Weber State email accounts.

I typically respond to email in the morning. This tactic keeps me from responding to email all day. I will certainly respond to your emails during office hours, but outside of those times it will most likely be the following morning.

**Required Text:** Gravetter, F. J., & Wallnau, L. B. (2007). *Essentials of statistics for the behavioral sciences*, 6<sup>th</sup> ed. Belmont, CA: Wadsworth/Thomson Learning.

**Supplemental Text:** Gravetter, F. J. (2007). *Study Guide for Gravetter and Wallnau's Essentials of statistics for the behavioral sciences*, 6<sup>th</sup> ed. Belmont, CA: Wadsworth/Thomson Learning.

**Course Description and Goal:** This course is an introduction to descriptive and inferential statistics with specific emphasis on the computation, application, interpretation, and presentation. In this course, you will gain an understanding of descriptive and inferential statistics with a strong emphasis on the theoretical aspects of statistical decision-making.

**Grades:** Your final course grade will come from your performance on in-class homework assignments (500 points), six exams (100 points each), a take-home comprehensive final (200 points), an in-class comprehensive final (150 points), and class participation (50 points). Your final grade will be based on the percentage of total points obtained relative to the total number of points available. The following percentage-letter grade equivalents shall apply.

94-100	A	87-89	B+	77-79	C+	67-69	D+
90-92	A-	83-86	B	73-76	C	60-66	D
		80-82	B-	70-72	C-	0-59	E

**Homework:** There will be homework assignments made in-class that will require you to analyze data using excel and SPSS and present your interpretation in an APA style results section.

**Exams:** There will be six exams, a take-home comprehensive final, and an in-class comprehensive final. The seven regular exams will consist of multiple choice, computation, and short answer questions. The take-home final will consist of several experimental contexts and data sets; you will be required to determine the appropriate analysis, perform this analysis in both

Excel and SPSS, and present the results of the analysis in an APA style results section. The in-class final will resemble the seven standard exams, but will be comprehensive.

**Testing Center Hours:** All exams will be taken in the Social Science Testing Center, located in the basement of the Social Science Building (SS 036). In order to take an exam, you must show up at the center on the correct day(s), during testing center hours, and with a picture ID. You will not be allowed to take the exam without a picture ID, or if you come after the hours specified. You will also need a calculator, #2 pencil, and 10¢ to purchase a scantron form.

**Make-up Exams: make-up exams will be given only in extreme circumstances (i.e., medical emergencies) and are subject to a penalty of 10 points per day (including weekends and holidays).**

**Course Policies and Expectations:**

**Attendance:** The student is responsible for all lecture materials and announcements made in class whether you are present or not. I do not take attendance on a daily basis. I do, however, believe that class attendance plays an integral part in learning the material, especially in statistics. Although there is tremendous overlap between the material in the text and that presented in class, class discussions and group activities help reinforce the learning of the material. Also, some exam items will tap only material presented in either class or in the text. Therefore, it is to your advantage to attend every class and to obtain class notes when circumstances do not permit. If you must miss class, it is suggested that you read the assigned materials and obtain the class notes from a classmate.

If you must miss class, **do not** contact me with questions about what was covered in class. At this point, you are to obtain the names, email addresses, and phone numbers of four of your class mates. These are the people that you should contact in case of a class absence. Only after contacting these individuals, obtaining class notes, and preparing the assigned materials are you to contact me. I'm happy to help you learn the material, but only after you have taken the time to prepare and review what you have missed.

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**Classroom Courtesy:**

**Cell phones/beepers/laptops:** With the exception of your calculator, which I expect you to bring every day, leave **all** electronic devices turned off during class. I do not want to

see any cell phones or laptops out during the class period. You can text message and email your friends during the other twenty-two hours and ten minutes of the day, but not during this class. This behavior is not only rude, but is also extremely disruptive. A first warning is forgetfulness. A second warning (and subsequent warnings) will result in five points off your final total points for each occurrence.

**Discriminatory Harassment:** Weber State University is committed to providing an environment free from harassment and other forms of discrimination based upon race, color, ethnic background, national origin, religion, creed, age, lack of American citizenship, disability, status of veteran of the Vietnam era, sexual orientation or preference or gender, including sexual/gender harassment. Such an environment is a necessary part of a healthy learning and working atmosphere because such discrimination undermines the sense of human dignity and sense of belonging of all people in the environment. Thus, students in this class should practice professional deportment, and avoid treating others in a manner that is demeaning or derisive in any respect.

While diverse viewpoints and opinions are welcome in this class, in expressing them, we will practice mutual deference so important in the world of work. Thus, while I encourage you to share your opinions, when appropriate, you will be expected to do so in a manner that is respectful towards others, even when you disagree with them.

If you have questions regarding the university's policy against discrimination and harassment you may contact the university's AA/EO office (626-6239) or visit its website: <http://departments.weber.edu/aaceo/>.

**Academic dishonesty policy:** Weber State University imposes specific disciplinary actions in response to incidents of academic misconduct (cheating, plagiarism, etc.). These actions may include admonition, failing grade, failure of course, disciplinary probation, suspension, and dismissal. The specified policies can be found in the WSU Student Code at <http://documents.weber.edu/ppm/6-22.htm>. Cheating will not be tolerated in this or any class at WSU. Any student caught cheating or plagiarizing on any assignment will result in a grade of E. It is your responsibility to understand what constitutes plagiarism, if you have any questions about what constitutes plagiarism ask. Ignorance of the law is no excuse.

**Accommodation for Students with Disabilities:**

Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Service Center. SSD can also arrange to provide course materials (including this syllabus) in alternative formats if necessary.

Weber State University policies regarding Services for Students with Disabilities are available on the <http://weber.edu/ssd> website.

**A note on grades:** Statistics is a course that many students struggle with. It is expected that you will spend a substantial amount of time outside of class going through the material and working

practice problems. If you expect to pass this course, you should be willing to spend an hour per day outside of class working practice problems and going through the material. If you would like to make an A in this course, then you should be willing to put in two hours per day outside of class. I would highly suggest forming a study group with 4-5 other students with whom you can discuss material and go through problems. Again, this course will require you to put in a substantial number of hours outside of the class room; simply coming to class and reading the book will not ensure a passing grade.

### TENTATIVE CLASS SCHEDULE AND ASSIGNMENTS

<b>5/3-5/7</b>	Intro. To Statistics	Ch. 1
	Frequency Distributions	Ch. 2
	Central Tendency	Ch. 3
	Variability	Ch. 4
	Z-Scores	Ch. 5
<b>5/7-5/8</b>	<b>EXAM 1</b>	
<b>5/10-5/14</b>	Probability	Ch. 6
	Probability & Samples	Ch. 7
	Hypothesis Testing	Ch. 8
<b>5/14-5/15</b>	<b>EXAM 2</b>	
<b>5/17-5/21</b>	Introduction to the $t$ Statistic	Ch. 9
	Related Samples $t$ Test	Ch. 11
	Independent Samples $t$ Test	Ch. 10
	Estimation	Ch.12
<b>5/21-5/22</b>	<b>EXAM 3</b>	
<b>5/24-5/28</b>	Introduction to ANOVA	Ch. 13
<b>5/28-5/29</b>	<b>EXAM 4</b>	
<b>5/31-6/4</b>	Repeated Measures ANOVA	Ch. 14
	Two-Factor ANOVA	Ch. 14
<b>6/4-6/5</b>	<b>EXAM 5</b>	
<b>6/7-6/11</b>	Correlation & Regression	Ch. 15
	Non-Parametric Test Statistics	Ch. 16
<b>6/11-6/12</b>	<b>EXAM 6</b>	
<b>6/14-6/18</b>	Review	
<b>6/16-6/19</b>	In-Class Final Exam	
<b>6/18</b>	Take-Home Final Exam Due	Take-Home Due by 5:00

\*Please remember, this schedule is tentative and subject to change at the Instructors discretion.