Instructor Contact Information

Instructor: Dave Schuster, Ph.D.
Office Location: DMH 315
Telephone: 408-924-5659
E-mail: david.schuster@sjsu.edu
Office Hours: Tuesdays and Thursdays, 4:15pm – 5:00pm or by appointment

Course Information

Classroom: DMH 236
Class Days/Time: Tues. & Thurs., 1:30pm – 2:45pm
Prerequisites: STAT 115 or equivalent

Course Description

This course presents an application-oriented introduction to statistics in the social sciences. Topics we will cover include: fundamental principles of statistical inference, graphical analysis of data; descriptive statistics, t-tests, and ANOVA. We will focus on advanced topics in ANOVA such as: factorial ANOVA, repeated-measures ANOVA, simple effects tests, power, effect size, and statistical conclusion validity.

From the catalog: Advanced problems in statistical analysis. Advanced consideration of hypothesis testing, estimation and analysis of variance.

Learning Outcomes

Program Learning Outcomes

Upon successful completion of the requirements for the MA in Research and Experimental Psychology, students will be able to:

Goal 1. Knowledge Base – Students completing the MA in Psychology program will understand the major theoretical perspectives and research methods across areas of experimental psychology, i.e., Developmental, Social, Cognitive, and Physiological.
PLO 1.1 – Understand the major theoretical perspectives and research methods across areas of experimental psychology, i.e., Developmental, Social, Cognitive, and Physiological.

Goal 2. Research Methods & Scholarship – Graduates of our program will possess an advanced level of competence in research methods, statistical techniques, and technical writing skills. Students completing the MA in Psychology program are required to complete a thesis. The thesis will:

* PLO 2.1 – demonstrate creative problem-solving in the design, implementation of empirical research.
* PLO 2.2 – demonstrate project management skills in the implementation of empirical research.
* PLO 2.3 – demonstrate advanced competency in the statistical analysis and interpretation of empirical research findings.
* PLO 2.4 – be able to communicate (oral and written) their research findings at a professional level.

Goal 3. Career Enhancement – Graduates of our program will experience career enhancement through placement in a doctoral program or acceptance of a position requiring a master’s in psychology in the public or private sector. Students completing the MA in Psychology program will:

* PLO 3.1 – achieve career enhancement through placement in a doctoral program or acceptance of a position requiring a master’s in psychology in the public or private sector.

* STAT 245 contributes to PLOs 2.1, 2.3, and 2.4.

Course Learning Outcomes
The goals of this course are to help you: build a solid conceptual understanding of statistics in research, develop the practical skills to use statistics in your own research, and become a self-directed learner.

Upon successful completion of this course, you will be able to:

* CLO 1 – Define statistical procedures, including those associated with: data cleaning, descriptive statistics, t-tests, ANOVA, and multiple regression.
* CLO 2 – Describe which statistical procedures are appropriate for a given research situation
* CLO 3 – Discuss the underlying requirements and assumptions of statistical procedures
* CLO 4 – Conduct and interpret statistical analysis using computer software
* CLO 5 – Communicate results of statistical analysis in APA style

The learning objectives will be assessed via written assignments and exam questions. The course learning objectives were adapted from those of Drs. Sean Laraway and Howard Tokunaga.

Required Materials

**Reliable Access to the Internet**
Having access to the Internet is your responsibility, so have backup plans in case you have problems with your primary computer. I cannot accept excuses about technology problems as valid, unless the entire University network or all of Canvas is offline.
Canvas and E-Mail: Communication, Grades, Quizzes, and Submissions

Use of the Canvas learning management system and e-mail are required. Supplementary course material will be made available on Canvas regularly. Communication regarding the course will be sent via the e-mail address linked to your MySJSU account or posted to Canvas. It is your responsibility to make sure you are enrolled in Canvas and receiving my e-mails.

How to get connected:

- You will need your SJSU ID to login. You should have received a message from the Registrar’s Office providing your SJSU ID.
- If you've never logged into Canvas, then you'll first need to activate your SJSUOne account. Visit the following page to activate your account: https://sjsuone.sjsu.edu/ldapAccount/Activate/Activate.aspx.
- Once activated, you can login to Canvas at https://sjsu.instructure.com/login

Answers about Canvas can be found at http://guides.instructure.com.

Required Textbooks/Readings


This text is available from the Spartan Bookstore ($162.15 new, $121.60 used), Amazon.com ($110 new, $18.46 rental through Dec. 21), Half.com ($55 new), as a Kindle edition from Amazon.com ($91.49), and elsewhere. An electronic edition is also available at http://www.coursesmart.com/IR/6469772/9781118436608?__hdv=6.8. Prices were obtained on August 14, 2015 and may change.


The Spartan Bookstore was unable to stock this text. As of this writing, it is available new from Barnes and Noble online, used from Amazon.com and Half.com, and as a Kindle edition from Amazon.com. A recent edition (i.e., 3rd ed. or 4th ed.) is also acceptable. An electronic edition is available for rental at http://www.coursesmart.com/IR/6469772/0335262597?__hdv=6.8

Additional Readings will be made available on the Canvas site.

SPSS and Microsoft Excel

Many assignments will require you to perform analysis in and outside of class using SPSS and Microsoft Excel.

To use SPSS, it is intended that you use the classroom computers or those in the Statistics Lab located in DMH 350. These computers are equipped with SPSS and peer graduate student teaching assistants can provide you with assistance on how to use the program. See the Statistics Lab to determine its hours of operation for this semester. Optionally, you can obtain a copy of SPSS for at the University Help Desk on the first floor of Clark Hall for a small fee (usually $15, may be free). Be sure to get version 23 or later. SPSS is available for Windows or Mac.

SJSU's license for Microsoft Office allows you a free subscription to Office 365, which includes a download of Excel. Visit the eligibility web site at http://www.office.com/getoffice365.
Flash Drive and Laptop (optional)
A flash drive is helpful for taking your work between class and the statistics lab. You are welcome to bring a laptop computer to class, but a laptop is not required. Laptops, classroom computers, and mobile devices can only be used during class for course-related work.

Grading Policy

How to be Successful in this Course
SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in University Policy S12-3 at http://www.sjsu.edu/senate/docs/S12-3.pdf.

Grading Scale
Grades will be available to you on Canvas throughout the semester. Grades are assigned based on your final point total (out of 1000 points for the semester):

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
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<tbody>
<tr>
<td>A+</td>
<td>966+ points</td>
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<tr>
<td>A</td>
<td>916 - 965</td>
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<td>896 - 915</td>
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<td>866 - 895</td>
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<tr>
<td>B</td>
<td>816 - 865</td>
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<tr>
<td>B-</td>
<td>796 - 815</td>
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<tr>
<td>C+</td>
<td>766 - 795</td>
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<tr>
<td>C</td>
<td>716 - 765</td>
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<tr>
<td>C-</td>
<td>696 - 715</td>
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<tr>
<td>D+</td>
<td>666 - 695</td>
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<tr>
<td>D</td>
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<td>D-</td>
<td>595 - 615</td>
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<tr>
<td>F</td>
<td>&lt; 595 points</td>
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</tbody>
</table>

Rounding is Included in the Grading Scale
The point totals reflect rounding up to the nearest percentage. For example, an A- would normally require 900 points (or 90% of 1000 points). With rounding, it only requires 896 points (or 89.6% of 1000 points). Because rounding is built in to the grading scale, your grade will be based on your final point total, rounded to the nearest whole point (so, 895.75 points is an A-, but 895.25 points is a B+). To be fair to everyone in the class, these are firm cutoffs; no additional rounding will be done.
Grade Checks
You have my official permission to use the Canvas printout as a record of your current progress in the course. If you need a signed grade check, then please bring the grade check form with a printout of your current Canvas grade to my office hours. Grade checks are only available during office hours. Under Federal privacy laws, I cannot e-mail grades to you at any time.

Course Requirements and Assignments

Exams
Exams are 70% of your final grade (700 points total).

Four exams are worth 175 points each for a total of 700 points. Exams will focus on applying the knowledge learned in the previous part of the course. The fourth exam is a cumulative final exam.

You may bring and refer to your own notes and the required textbooks during exams. You will be allowed to use SPSS and a calculator on the computer at your classroom workstation, but Internet access will not be allowed. All other assistance is prohibited. For example, you cannot use other computers, mobile phones, watches, or tablets, even if they have a calculator function. If you will need to refer to material posted to Canvas, you will need to print it out ahead of time. If you have any questions about what material is allowed, ask me. I take academic integrity very seriously (see “Academic Integrity,” below).

Homework Assignments
Homework assignments are 30% of your final grade (300 points total).

A number of homework assignments will be distributed on Canvas throughout the semester for a total of 300 points. The value of each assignment will be based on the total number of assignments at the end of the semester minus 1; the lowest homework assignment score will be dropped. Due dates will be posted to Canvas. All homework assignments must be submitted through Canvas. Late assignments are not accepted for credit except as described below.

Make-Up and Extension Policy
Make-ups or extensions for any graded assignment will only be given when:

- The assignment is not labeled, “no make-ups or extensions for any reason.”
- The reason is exceptional, unforeseen, and unavoidable. Examples of exceptional circumstances are health emergencies, religious obligations, and military service. Work scheduling is not a sufficient reason for a make-up or extension.
- You provide written documentation.
- You notify me immediately after you become aware of the circumstances requiring a make-up or extension by filling out this form:
- You submit a request form at http://goo.gl/forms/0yJQ2KbvtP.

If the need for a make-up is known before the assignment due date, the assignment must be completed early. Make-up exams will be scheduled based on instructor availability. Do not e-mail your instructor with requests for a make-up or extension; instead, complete the request form.
Learning Environment

In the graduate seminar format, professional behavior is an expectation. This includes the usual: come prepared to class, arrive on time, silence your electronics, be polite and respectful to everyone in the room, do not do off-topic activities during class, and speak up when you are confused, have questions, or need help.

As this is a graduate class, attending class implies your willingness to behave in a professional manner. Respectful disagreement and debate are encouraged. However, unprofessional, disrespectful, or disruptive behavior is a violation of the Student Code of Conduct, available at http://www.sjsu.edu/studentconduct/docs/Student%20Conduct%20Code%202013.pdf. Such behavior may result in being asked to leave the class and/or referrals to the Office of Student Conduct and Ethical Development.

University Policies

Recording and Distributing Class Content

University Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor’s permission to record the course. Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor’s permission to make audio or video recordings in this class, and authorized recording is for the general lecture time only. Group work may only be recorded with permission of all group members. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor. By enrolling in this course, you have not been given any rights to reproduce or distribute these recordings. Course material developed by the instructor remains the intellectual property of the instructor. You may not publically share or upload instructor-generated material for this course without written permission of the instructor.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester’s Catalog Policies section at http://info.sjsu.edu/static/catalog/policies.html. Add/drop deadlines can be found on the current academic year calendars document on the Academic Calendars webpage at http://www.sjsu.edu/provost/services/academic_calendars/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policies/latedrops/policy/. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the Advising Hub at http://www.sjsu.edu/advising/.

General Expectations, Rights and Responsibilities of the Student

As members of the academic community, students accept both the rights and responsibilities incumbent upon all members of the institution. Students are encouraged to familiarize themselves with SJSU’s policies and practices pertaining to the procedures to follow if and when questions or concerns about a class arises. See University Policy S90–5 at http://www.sjsu.edu/senate/docs/S90-5.pdf. More detailed information on a variety of related topics is available in the SJSU catalog, at http://info.sjsu.edu/web-dbgen/narr/catalog/rec-12234.12506.html. In general, it is recommended that students begin by seeking clarification or discussing concerns with their instructor. If such conversation is not possible, or if it does
not serve to address the issue, it is recommended that the student contact the Department Chair as a next step.

**Academic Integrity**
Your commitment as a student to learning is evidenced by your enrollment at San José State University. The University Academic Integrity Policy S07-2 at [http://www.sjsu.edu/senate/docs/S07-2.pdf](http://www.sjsu.edu/senate/docs/S07-2.pdf), requires you to be honest in all your academic course work. Faculty members are required to report infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at [http://www.sjsu.edu/studentconduct/](http://www.sjsu.edu/studentconduct/).

Instances of academic dishonesty will not be tolerated. Cheating on assignments or plagiarism (presenting the work of another as your own, or the use of another person’s ideas without giving proper credit) may result in a failing grade on the assignment, a failing grade in the course, and/or sanctions by the University. For this class, all assignments are to be completed by the individual student unless otherwise specified. If you would like to include any material you have submitted in another class or plan to submit for another class, please note that SJSU’s Academic Integrity Policy S07-2 requires approval of instructors.

**Campus Policy in Compliance with the American Disabilities Act**
If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 at [http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf](http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf) requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at [http://www.sjsu.edu/aec](http://www.sjsu.edu/aec) to establish a record of their disability.

**Accommodation to Students’ Religious Holidays**
San José State University shall provide accommodation on any graded class work or activities for students wishing to observe religious holidays when such observances require students to be absent from class. It is the responsibility of the student to inform the instructor, in writing, about such holidays before the add deadline at the start of each semester. If such holidays occur before the add deadline, the student must notify the instructor, in writing, at least three days before the date that he/she will be absent. It is the responsibility of the instructor to make every reasonable effort to honor the student request without penalty, and of the student to make up the work missed. See [University Policy S14-7](http://www.sjsu.edu/senate/docs/S14-7.pdf).

**About Diversity**
Consistent with the mission of San José State University, I welcome persons of differing backgrounds and experiences including but not limited to age, disability and health status, ethnicity and race, family structure, geographic region, language, religious/spiritual and secular beliefs, resident status, sex, sexual orientation and gender identity/expression, and socioeconomic status.

It is my goal to foster an environment in which diversity is recognized and embraced, and every person is treated with dignity, respect, and justice. I hope that your academic experience in this course and at San José State University will provide the opportunity to gain knowledge and experiences necessary to thrive in a diverse, global environment.
Useful Resources at San José State

**Library Liaison**
Your library liaison can help with library research questions.

Bernd Becker  
Phone: (408) 808-2348  
Email: bernd.becker@sjsu.edu

**Computer Labs**
Computer labs for SJSU student use are available in the:

- Statistics Lab, located in DMH 350  
- Academic Success Center at [http://www.sjsu.edu/at/asc/](http://www.sjsu.edu/at/asc/) located on the 1st floor of Clark Hall  
- Associated Students Lab on the 2nd floor of the Student Union  
- Martin Luther King Library

Check with each lab for hours and to see what software is available for your use.

**Microsoft Office at No Cost**
SJSU’s license for Microsoft Office allows you a free subscription to Office 365, which includes downloads of Word, Excel, PowerPoint, and others. Visit the eligibility web site at [http://www.office.com/getoffice365](http://www.office.com/getoffice365).

**Adobe Creative Cloud at No Cost**
SJSU provides students with free Adobe software for SJSU-related activities. Visit the program web site at [http://its.sjsu.edu/services/software/adobe/](http://its.sjsu.edu/services/software/adobe/).

**SJSU Peer Connections**
Peer Connections, a campus-wide resource for free mentoring and tutoring, strives to inspire students to develop their potential as independent learners while they learn to successfully navigate through their university experience. You are encouraged to take advantage of their services which include course-content based tutoring, enhanced study and time management skills, more effective critical thinking strategies, decision making and problem-solving abilities, and campus resource referrals.

In addition to offering small group, individual, and drop-in tutoring for a number of undergraduate courses, consultation with mentors is available on a drop-in or by appointment basis. Workshops are offered on a wide variety of topics including preparing for the Writing Skills Test (WST), improving your learning and memory, alleviating procrastination, surviving your first semester at SJSU, and other related topics. A computer lab and study space are also available for student use in Room 600 of Student Services Center (SSC).

Peer Connections is located in three locations: SSC, Room 600 (10th Street Garage on the corner of 10th and San Fernando Street), at the 1st floor entrance of Clark Hall, and in the Living Learning Center (LLC) in Campus Village Housing Building B. Visit Peer Connections website at [http://peerconnections.sjsu.edu](http://peerconnections.sjsu.edu) for more information.

**SJSU Writing Center**
The SJSU Writing Center is located in Clark Hall, Suite 126. All Writing Specialists have gone through a rigorous hiring process, and they are well trained to assist all students at all levels within all disciplines to
become better writers. In addition to one-on-one tutoring services, the Writing Center also offers workshops every semester on a variety of writing topics. To make an appointment or to refer to the numerous online resources offered through the Writing Center, visit the Writing Center website at [http://www.sjsu.edu/writingcenter](http://www.sjsu.edu/writingcenter). For additional resources and updated information, follow the Writing Center on Twitter and become a fan of the SJSU Writing Center on Facebook.

**Counseling Services**

Personal Counselors are available to help students identify and accomplish their academic and career goals, enhance personal development, meet life’s challenges, and improve interpersonal relationships.

Free short-term psychological counseling is available to individuals and couples who are matriculated students of San José State University. Students are eligible to receive six sessions per semester.

The SJSU Counseling Services is located on the corner of 7th Street and San Fernando Street, in Room 201, Administration Building. Professional psychologists, social workers, and counselors are available to provide consultations on issues of student mental health, campus climate or psychological and academic issues on an individual, couple, or group basis. To schedule an appointment or learn more information, visit the Counseling Services website at [http://www.sjsu.edu/counseling](http://www.sjsu.edu/counseling).

**Wellness Workshops**

Attending to your wellness is critical to your success in graduate school. Past workshops have included time management, community resources, study skills & note-taking, overcoming stress, test anxiety & test taking skills, goal setting, assertiveness & communication, improving self-esteem, graduate school, first-generation success, and more. For more information and a schedule of workshops, visit the Workshop list at [http://www.sjsu.edu/counseling/students/Workshops](http://www.sjsu.edu/counseling/students/Workshops).

**Course Schedule**

The course schedule is tentative and subject to change; modifications will be posted to Canvas.

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<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>2</td>
<td>Tue. Aug. 25 Thu. Aug. 27</td>
<td>Measurement Foundations Review II</td>
<td>Cohen, Ch. 1-2, Pallant Ch. 1-3</td>
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<tr>
<td>3</td>
<td>Tue. Sept. 1 Thu. Sept. 3</td>
<td>Descriptive Statistics</td>
<td>Cohen, Ch. 3-4, Pallant Ch. 6, 8</td>
<td>Homework 1 due 11:59pm Sept. 3</td>
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<td>4</td>
<td>Tue. Sept. 8 Thu. Sept. 10</td>
<td>Exam Review (Tue.) Exam 1 (Thu.)</td>
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<td>5</td>
<td>Tue. Sept. 15 Thu. Sept. 17</td>
<td>Data cleaning and APA-style results sections</td>
<td>Pallant Ch. 4-5, 7</td>
<td></td>
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<tr>
<td>6</td>
<td>Tue. Sept. 22 Thu. Sept. 24</td>
<td>z-Scores and Hypothesis Testing</td>
<td>Cohen Ch. 4-5</td>
<td>Homework 2 due 11:59pm Sept. 24</td>
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<tr>
<td>Week</td>
<td>Date</td>
<td>Topic</td>
<td>Reading Additional readings will be posted to Canvas</td>
<td>Assignments</td>
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<tr>
<td>7</td>
<td>Tue. Sept. 29</td>
<td>Statistical Power and Effect Size</td>
<td>Cohen Ch. 8</td>
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<td></td>
<td>Thu. Oct. 1</td>
<td></td>
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<tr>
<td>8</td>
<td>Tue. Oct. 6</td>
<td>One- and Two-Sample Hypothesis Tests</td>
<td>Cohen Ch. 6-7, 11, Pallant Ch. 17</td>
<td>Homework 3 due 11:59pm Oct. 8</td>
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<td>Thu. Oct. 8</td>
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<td>9</td>
<td>Tue. Oct. 13</td>
<td>One-way ANOVA</td>
<td>Cohen Ch. 12, 15, Pallant Ch. 18</td>
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<td>Thu. Oct. 15</td>
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<td>10</td>
<td>Tue. Oct. 20</td>
<td>One-way ANOVA</td>
<td>Cohen Ch. 12, 15, Pallant Ch. 18</td>
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<td></td>
<td>Thu. Oct. 22</td>
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<tr>
<td>11</td>
<td>Tue. Oct. 27</td>
<td>No class meeting – assignment work instead (Tue.) Exam 2 (Thu.)</td>
<td></td>
<td>Homework 4 due 11:59pm Oct. 27</td>
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<tr>
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<td>Thu. Oct. 29</td>
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<tr>
<td>12</td>
<td>Tue. Nov. 3</td>
<td>Multiple comparisons</td>
<td>Cohen Ch. 13</td>
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<td></td>
<td>Thu. Nov. 5</td>
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<td>13</td>
<td>Tue. Nov. 10</td>
<td>Correlation, Regression, and the general linear model (GLM)</td>
<td>Pallant Ch. 11-13</td>
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<td>Thu. Nov. 12</td>
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<td>14</td>
<td>Tue. Nov. 17</td>
<td>Factorial ANOVA</td>
<td>Pallant Ch. 19-20</td>
<td>Homework 5 due 11:59pm Nov. 19</td>
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<td>Thu. Nov. 19</td>
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<td>15</td>
<td>Tue. Nov. 24</td>
<td>Exam 3 (Tue.) Thanksgiving, No Class (Thu.)</td>
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<td>16</td>
<td>Tue. Dec. 1</td>
<td>Factorial ANOVA</td>
<td>Pallant Ch. 19-20</td>
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<tr>
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<td>Thu. Dec. 3</td>
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<tr>
<td>17</td>
<td>Tue. Dec. 8</td>
<td>Factorial ANOVA</td>
<td>Pallant Ch. 19-20</td>
<td>Homework 6 due 11:59pm Dec. 8</td>
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<tr>
<td>Final</td>
<td>Thu. Dec. 10</td>
<td>Exam 4 12:15pm – 2:30pm</td>
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