Department of Educational Psychology and Higher Education
College of Education, University of Nevada, Las Vegas

Educational Psychology 722
Inferential Statistics and Experimental Design
Fall
3 Credit Hours
Section 001
CEB

INSTRUCTOR NAME: 
OFFICE HOURS: 
OFFICE PHONE: OFFICE LOCATION: 
E-MAIL: 

COURSE INTRODUCTION

From Catalog:

Intermediate-level coverage of inferential statistics and experimental design analysis covering commonly used techniques in educational and behavioral research with computer applications. Prerequisite: EPY 721.

From Corkill:

This course will cover the use of advanced statistical methods primarily in the context of true experiments. The major course focus will deal with the analysis of research data using analysis of variance (ANOVA).

REQUIRED MATERIALS


Calculator: You will need a calculator for this course. Any basic calculator with a square root function key (\(\sqrt{\cdot}\)) will suffice.
CLASS FORMAT

This class is designated as a “Web Supplemental” format. This means that some class portions will occur in an online-delivery format. The “Course Schedule” toward the end of this document clearly outlines dates and content for traditional and online class sessions.

COURSE GOALS

1. Learn the steps of hypothesis testing and understand the rationale for the sequence.
2. Learn how to select the appropriate experimental design (of those included in the course content) based on a stated research hypothesis.
3. Learn how to create, format, and interpret all variables in a statistical statement of experimental results.
4. Learn how to select, conduct, and interpret appropriate follow-up procedures for a significant experimental result.

COURSE OBJECTIVES

This course is designed to address the following knowledge, skills, and dispositions:

Knowledge

By the end of this course, students will be able to:

- Describe the rational and process of hypothesis testing.
- Describe the rationale for a oneway ANOVA.
- Describe the procedures for conducting a oneway ANOVA.
- Describe appropriate follow-up procedures for a significant result from a oneway ANOVA.
- Describe the rationale for conducting a trend analysis.
- Describe the procedures for conducting a trend analysis.
- Describe the rationale for multi-factor ANOVAs.
- Describe the procedures for conducting a two-factor ANOVA.
- Describe appropriate follow-up procedures for a significant interaction from a two-factor ANOVA.
- Describe the rationale for conducting ANCOVA.
- Describe the procedures for conducting ANCOVA.
- Describe appropriate follow-up procedures for a significant ANCOVA.
- Describe the rationale for conducting within-subject designs.
- Describe the procedures for conducting a within-subject design.
- Describe appropriate follow-up procedures for a significant within-subject analysis.
• Describe the rationale for conducting a mixed model design.
• Describe the procedures for conducting a mixed model design.
• Describe appropriate follow-up procedures for a significant interaction from a mixed model design.

Skills

By the end of this course, students will demonstrate the ability to:

• Conduct an oneway ANOVA.
• Conduct appropriate follow-up tests for a significant oneway ANOVA.
• Conduct a trend analysis.
• Conduct a two-factor ANOVA.
• Conduct appropriate follow-up tests for a significant interaction from a two-factor ANOVA.
• Conduct a one-factor ANCOVA.
• Conduct appropriate follow-up tests for a significant oneway ANCOVA.
• Conduct a one-factor within-subject analysis.
• Conduct appropriate follow-up tests for a significant within-subject analysis.
• Conduct a mixed model analysis.
• Conduct appropriate follow-up tests for a significant interaction from a mixed model analysis.

Dispositions

By the end of this course, students will have made advances toward acquiring the following:

• The disposition that statistics do not lie, but people are able to creatively use statistics to support false claims.
• The disposition that by acquiring an understanding of statistics, students will be better equipped to distinguish between “credible” and “incredible” research claims.
• The disposition that statistical reasoning can be accomplished without ever completing a calculation. In other words, we reason statistically often, but may not have realized that we were doing so because our reasoning process may not have directly involved numbers or mathematical procedures.
• The attitude that through the use of statistical procedures we may have greater confidence in claims we make about research outcomes.
• The attitude that engaging in statistical reasoning, with or without mathematical procedures, is gratifying.
ASSIGNMENTS

• Exams
  o The exams are designed to summatively assess understanding of course content.
  o The exams will include a mix of multiple choice and calculation items.
  o Although the exams are not, strictly speaking, cumulative, the material—by its very nature—is. Therefore, it is critical to thoroughly understand the concepts and calculations for each section in order that you may continue to progress satisfactorily through the course content.
  o Exams will be available via Web Campus for a 3-hour period beginning at 4:00 pm on the date prescribed in the syllabus.
  o Students must begin the exam between 4:00 and 7:00 pm (pacific).
  o Students will have 3 hours from the time the exam is started to complete all exam items.
  o The exams will constitute 37.5% of the final grade in this course.
  o A “practice exam” will be made available Thursday, 15 September beginning at 12:00 noon (pacific). It will be available until 12:00 noon (pacific) Sunday, 18 September. Students will have 3 hours from the time the exam is started to complete all exam items. The practice exam is designed to give students the opportunity to:
    ▪ become familiar with the assessment features of Web Campus
    ▪ give experience with how course content will be assessed in exams.
  o Performance on the practice exam will not be included in final grade calculations. Feedback will be provided to students who complete the practice exam.

• SPSS Homework Assignments
  o The SPSS assignments are specifically designed to provide students with experience using SPSS (a statistical software package).
  o Students will receive instruction in class on how to use the feature(s) of SPSS necessary for the assignment.
  o Be sure to follow the instructions provided in the homework assignment.
  o Failure to follow specific instructions for a homework assignment will result in loss of points.
  o Due dates for homework assignments may be found in the Course Schedule.
  o Due dates for homework assignments are strictly observed.
• Homework will be submitted through Web Campus.
  o A 10% per day point penalty will be applied for late SPSS homework assignment submissions.
  o SPSS assignments will contribute 30% to the final grade. Two SPSS assignments will be optional. The optional SPSS assignment grades will be applied to the final grade as extra credit.

• Article Assignments
  o Article readings are designed to familiarize students with how specific experimental designs may be reported in academic journals or with other course-relevant content.
  o A minimum of three article readings will be assigned over the course of the semester.
  o Students will be required to respond to specific questions related to the article readings.
  o Student responses to the reading assignments will contribute 10% to the final grade.
  o A 10% per day point penalty will be applied for late article assignment submissions.

• Project
  o The class project will be distributed early in November.
  o Students will create a research study and complete a variety of analyses with respect to the research study.
  o The details of the project will be distributed when adequate content has been covered to allow work on the project to commence.
  o Projects will be submitted through Web Campus.
  o The project will contribute 20% to the final grade.
  o A 25% per day point penalty will be applied for late project submissions.

• Photo Assignments
  o At a minimum of four times during the semester, students will be required to submit photographs of specific course-related information.
  o Photo assignments will be announced during traditional class sessions with a closely following submission deadline.
  o Submission of photo assignments by specific deadlines will contribute 2.5% to the final grade.
  o A 10% per day point penalty will be applied for late photo assignment submissions.

• Suggested Exercises
  o Although suggested exercises will not be collected or graded, per se, students are strongly encouraged to take the time and effort to attempt the suggested exercises.
  o Completion of suggested exercises will assist in content mastery and will assist in thorough preparation for exams.
Thoroughly worked out solutions to all suggested exercises will be made available via Web Campus. Every effort has been made to ensure that the suggested exercise solutions are accurate. If you find what you believe to be an error, please immediately contact Dr. Corkill via Web Campus with that information.

- Attendance
  - Although attendance will not make a contribution to the final grade, regular attendance is strongly encouraged.

**ACCESSING SPSS**

SPSS is available in most open computer labs at UNLV including the Graduate Student lounge in the library and CEB-B 131. Before traveling to UNLV to access SPSS, check the following UNLV website to ensure lab and software availability: [http://oit.unlv.edu/labs-classrooms/labs](http://oit.unlv.edu/labs-classrooms/labs).

You may prefer to access SPSS by purchasing a student version. Check [http://www.onthehub.com/spss/](http://www.onthehub.com/spss/) for pricing and licensing options. The “IBM SPSS Statistics 23” “Statistics Base Grad Pack” should be sufficient for this class. Please note that the provided link is one of many options and should not be considered an endorsement for this site. You may wish to shop around to see if you can find a better price.

**PERFORMANCE ASSESSMENTS**

One of the objectives of the course is for students to gain experience using computer statistical packages, such as SPSS, in order to analyze research data. An additional objective is for students to gain experience in “writing up” the results of data analysis. To these ends, students will be required to complete several computer-based assignments. Several of these assignments will come in the form of homework. One of the assignments will be as a class project. The details of these assignments will be distributed when it becomes appropriate to do so.

**STUDENTS’ RIGHTS AND RESPONSIBILITIES**

You have a number of rights and responsibilities in this course. These are listed below.

**Rights:**

- You have the right to expect:
  - fairness in grading
  - access to course materials
  - feedback on your work
• fair hearing of grievances

**Responsibilities:**

*You are responsible for:*

- taking control of your own learning (seek assistance from me if you need it)
- reading the syllabus
- being aware of course assignment criteria, due dates, and policies
- studying and actively working with the assigned readings
- knowing material covered in class whether you attend or not
- behaving in an ethical manner with respect to class assignments including tests
- participating in class, but not to the exclusion of others
- conducting yourself in the professional demeanor required of graduate students

**GRADING POLICY**

Course grades will be based on the following percentages of total points:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 – 100%</td>
</tr>
<tr>
<td>B</td>
<td>80 – 89%</td>
</tr>
<tr>
<td>C</td>
<td>70 – 79%</td>
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<tr>
<td>D</td>
<td>60 – 69%</td>
</tr>
<tr>
<td>F</td>
<td>below 59%</td>
</tr>
</tbody>
</table>

I reserve the right to deviate from the grade point system outlined above under extraordinary circumstances.

Exam scores will account for 37.5% of the final grade.
SPSS Assignment scores will account for 30% of the final grade. The Project will account for 20% of the final grade.
Article Assignment Scores will account for 10% of the final grade. Photo Assignments will account for 2.5% of the final grade.

**UNLV POLICIES**

**Academic Misconduct**—Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility, and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV
assume the obligation to conduct themselves in a manner compatible with UNLV’s function as an educational institution. An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another, from the Internet or any source, without proper citation of the sources. See the Student Academic Misconduct Policy (approved December 9, 2005) located at: https://www.unlv.edu/studentconduct/student-conduct.

Copyright—The University requires all members of the University Community to familiarize themselves with and to follow copyright and fair use requirements. You are individually and solely responsible for violations of copyright and fair use laws. The university will neither protect nor defend you nor assume any responsibility for employee or student violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional information can be found at: http://www.unlv.edu/provost/copyright.

Disability Resource Center (DRC)—The UNLV Disability Resource Center (SSC-A 143, http://drc.unlv.edu/, 702-895-0866) provides resources for students with disabilities. If you feel that you have a disability, please make an appointment with a Disabilities Specialist at the DRC to discuss what options may be available to you. If you are registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to the instructor during office hours so that you may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach the instructor in front of others to discuss your accommodation needs.

Religious Holidays Policy—Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the instructor within the first 14 calendar days of the course for fall and spring courses (excepting modular courses), or within the first 7 calendar days of the course for summer and modular courses, of his or her intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit: http://catalog.unlv.edu/content.php?catoid=6&navoid=531.

Transparency in Learning and Teaching—The University encourages application of the transparency method of constructing assignments for student success. Please see these two links for further information:

https://www.unlv.edu/provost/teachingandlearning
https://www.unlv.edu/provost/transparency

Incomplete Grades—The grade of I—Incomplete—can be granted when a student has satisfactorily completed three-fourths of course work for that semester/session but for reason(s) beyond the student’s control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. The incomplete work must be made up before the end of the following regular semester for undergraduate courses. Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor. If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an Incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade.
Students may consult with a librarian on research needs. For this class, the Subject Librarian is (https://www.library.unlv.edu/contact/librarians_by_subject). UNLV Libraries provides resources to support students’ access to information. Discovery, access, and use of information are vital skills for academic work and for successful post-college life. Access library resources and ask questions at https://www.library.unlv.edu/.

**Tutoring and Coaching**—The Academic Success Center (ASC) provides tutoring, academic success coaching and other academic assistance for all UNLV undergraduate students. For information regarding tutoring subjects, tutoring times, and other ASC programs and services, visit http://www.unlv.edu/asc or call 702-895-3177. The ASC building is located across from the Student Services Complex (SSC). Academic success coaching is located on the second floor of the SSC (ASC Coaching Spot). Drop-in tutoring is located on the second floor of the Lied Library and College of Engineering TEB second floor.

**UNLV Writing Center**—One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance. Appointments may be made in person or by calling 702-895-3908. The student’s Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: http://writingcenter.unlv.edu/.

Students may consult with a librarian on research needs. For this class, the Subject Librarian is (https://www.library.unlv.edu/contact/librarians_by_subject). UNLV Libraries provides resources to support students’ access to information. Discovery, access, and use of information are vital skills for academic work and for successful post-college life. Access library resources and ask questions at https://www.library.unlv.edu/.

**Rebelmail**—By policy, faculty and staff should e-mail students’ Rebelmail accounts only. Rebelmail is UNLV’s official e-mail system for students. It is one of the primary ways students receive official university communication such as information about deadlines, major campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the university. Students’ e-mail prefixes are listed on class rosters. The suffix is always @unlv.nevada.edu. Emailing within WebCampus is acceptable.

**Final Examinations**—The University requires that final exams given at the end of a course occur at the time and on the day specified in the final exam schedule. See the schedule at: http://www.unlv.edu/registrar/calendars.

### Course Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic/Content</th>
<th>Format</th>
<th>Textbook Reading</th>
<th>SPSS Homework Assignment</th>
<th>Article Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 August</td>
<td>Review of Fundamentals of Statistical Inference</td>
<td>Traditional</td>
<td>Your introductory statistics text</td>
<td></td>
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</tr>
<tr>
<td>Date</td>
<td>Topic</td>
<td>Format</td>
<td>Chapters</td>
<td>Additional Information</td>
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<tr>
<td>06 September</td>
<td>One-Factor Analysis of Variance (ANOVA)</td>
<td>Traditional</td>
<td>Chapters 1 – 3</td>
<td></td>
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</tr>
<tr>
<td>13 September</td>
<td>One-Factor Analysis of Variance (ANOVA)</td>
<td>Online</td>
<td>SPSS Homework 1 – Feedback Version due Tuesday, 13 September</td>
<td>练习测验可于：太平洋时间周四, 15 九月 2016 年中午至太平洋时间周日, 18 九月 2016 年中午。</td>
<td></td>
</tr>
<tr>
<td>20 September</td>
<td>Effect Size Power Sample Size</td>
<td>Traditional</td>
<td>Chapter 8</td>
<td>SPSS Homework 1 – Final Version due Tuesday, 20 September</td>
<td></td>
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<tr>
<td>27 September</td>
<td>Exam 1</td>
<td>Online</td>
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<tr>
<td>04 October</td>
<td>Introduction to Follow-Up Tests: Planned Comparisons</td>
<td>Traditional</td>
<td>Chapters 4 – 6</td>
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</tr>
</tbody>
</table>

1 Subject to change
2 The format of this class is “Hybrid” (some traditional class sessions; some distance-type sessions). Several class sessions will be completed via audioclips made available in Web Campus. On the dates when “online” is the specified format, class will not be held. Instead, students will complete class activities on their own using materials available via Web Campus.
3 All SPSS Homework Assignments are due at 4:00 pm (pacific) on the respective due date.
4 All Article Assignments are due at 4:00 pm (pacific) on the respective due date.
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic/Content</th>
<th>Format</th>
<th>Textbook Reading</th>
<th>SPSS Homework Assignment</th>
<th>Article Assignments</th>
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<tbody>
<tr>
<td>11 October</td>
<td>Follow-Up Tests</td>
<td>Online</td>
<td></td>
<td>SPSS Homework 2 – Feedback Version due Tuesday, 11 October</td>
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<td></td>
<td>SPSS Homework 3 (required) – Feedback version due Tuesday, 11 October</td>
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<td></td>
<td>SPSS Homework 3 (optional) – Feedback version due Tuesday, 11 October</td>
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<tr>
<td>18 October</td>
<td>Trend Analysis</td>
<td>Traditional</td>
<td></td>
<td>SPSS Homework 2 – Final Version due Tuesday, 18 October</td>
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<td>SPSS Homework 3 (required) – Final version due Tuesday, 18 October</td>
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<td>SPSS Homework 3 (optional) – Final version due Tuesday, 18 October</td>
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<td></td>
<td>SPSS Homework 4 (optional) – Feedback Version due Friday, 21 October</td>
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</tr>
<tr>
<td>Date</td>
<td>Topic/Content</td>
<td>Format</td>
<td>Textbook Reading</td>
<td>SPSS Homework Assignment</td>
<td>Article Assignments</td>
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<tr>
<td>25 October</td>
<td>Analysis of Covariance</td>
<td>Traditional</td>
<td></td>
<td>SPSS Homework 4 (optional) – Final 25 Version due Friday, 28 October</td>
<td>Article 1 Assignment due Tuesday, 25 October</td>
</tr>
<tr>
<td>01 November</td>
<td><strong>Exam 2</strong></td>
<td>Online</td>
<td></td>
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</tr>
<tr>
<td>08 November</td>
<td>Introduction to Two Factor and Blocked Designs Simple Main Effects</td>
<td>Traditional</td>
<td>Chapters 10 – 12</td>
<td>SPSS Homework 5 – Final Version due Friday, 04 November</td>
<td>Article 2 Assignment due Tuesday, 08 November</td>
</tr>
<tr>
<td>15 November</td>
<td>Two Factor Designs and Simple Main Effects</td>
<td>Online</td>
<td></td>
<td>SPSS Homework 6 – Feedback Version due Tuesday, 15 November</td>
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<tr>
<td>22 November</td>
<td>Within Subject Designs</td>
<td>Traditional</td>
<td>Chapter 16</td>
<td>SPSS Homework 6 – Final Version due Tuesday, 22 November</td>
<td></td>
</tr>
<tr>
<td>29 November</td>
<td>Within Subject Designs</td>
<td>Online</td>
<td></td>
<td>SPSS Homework 7 – Feedback Version due Tuesday, 29 November</td>
<td>Article 3 Assignment due Tuesday, 29 November</td>
</tr>
<tr>
<td>06 December</td>
<td>Project Day</td>
<td>By appointment</td>
<td></td>
<td>SPSS Homework 7 – Final Version due Tuesday, 06 December</td>
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<tr>
<td>13 December</td>
<td><strong>Exam 3</strong></td>
<td>Online</td>
<td></td>
<td>Final Project due Tuesday, 13 December</td>
<td></td>
</tr>
</tbody>
</table>
### Photo, SPSS, and Article Assignments

<table>
<thead>
<tr>
<th>Assignment/Project</th>
<th>Feedback Version Due Date&lt;sup&gt;5&lt;/sup&gt;</th>
<th>Final Version Due Date&lt;sup&gt;6&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photo Assignment #1</td>
<td></td>
<td>Wednesday, 31 August</td>
</tr>
<tr>
<td>Selfie Photo Assignment</td>
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<td>Friday, 02 September</td>
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<tr>
<td>Photo Assignment #2</td>
<td></td>
<td>Wednesday, 07 September</td>
</tr>
<tr>
<td>SPSS Homework Assignment 1</td>
<td>Tuesday, 13 September</td>
<td>Tuesday, 20 September</td>
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<tr>
<td>Analysis of Variance</td>
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<tr>
<td>Photo Assignment #3</td>
<td>Wednesday, 14 September</td>
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<tr>
<td>SPSS Homework Assignment 2</td>
<td>Tuesday, 11 October</td>
<td>Tuesday, 18 October</td>
</tr>
<tr>
<td>Planned Comparisons</td>
<td></td>
<td></td>
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<tr>
<td>SPSS Homework Assignment 3 (required)</td>
<td>Tuesday, 11 October</td>
<td>Tuesday, 18 October</td>
</tr>
<tr>
<td>Simultaneous Comparisons – Tukey</td>
<td>Tuesday, 11 October</td>
<td>Tuesday, 18 October</td>
</tr>
<tr>
<td>Simultaneous Comparisons – Scheffé</td>
<td>Tuesday, 11 October</td>
<td>Tuesday, 18 October</td>
</tr>
<tr>
<td>SPSS Homework Assignment 4 (optional)</td>
<td>Friday, 21 October</td>
<td>Friday, 28 October</td>
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<tr>
<td>Trend Analysis</td>
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<tr>
<td>Article Assignment 1</td>
<td>Not Applicable</td>
<td>Tuesday, 25 October</td>
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<tr>
<td>One way Analysis of Variance</td>
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<tr>
<td>SPSS Homework Assignment 5</td>
<td>Friday, 28 October</td>
<td>Friday, 04 November</td>
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<tr>
<td>Analysis of Covariance</td>
<td></td>
<td></td>
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<tr>
<td>Article Assignment 2</td>
<td>Not Applicable</td>
<td>Tuesday, 08 November</td>
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<tr>
<td>Analysis of Covariance</td>
<td></td>
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<tr>
<td>SPSS Homework Assignment 6</td>
<td>Tuesday, 15 November</td>
<td>Tuesday, 22 November</td>
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<tr>
<td>Two Factor Analysis of Variance with Simple Main Effects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Article Assignment 3</td>
<td>Not Applicable</td>
<td>Tuesday, 29 November</td>
</tr>
</tbody>
</table>

<sup>5</sup> All Feedback Versions of assignments are due at 4:00 pm (pacific) on the respective due date.

<sup>6</sup> All Final Versions of assignments are due at 4:00 pm (pacific) on the respective due date.
<table>
<thead>
<tr>
<th>Two Factor Analysis of Variance</th>
<th>Tuesday, 29 November</th>
<th>Tuesday, 06 December</th>
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</thead>
<tbody>
<tr>
<td>SPSS Homework Assignment 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oneway Repeated Measures Analysis of Variance</td>
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</tr>
<tr>
<td>Final Project</td>
<td>Not Applicable – feedback available during Project Day Appointment</td>
<td>Tuesday, 13 December</td>
</tr>
</tbody>
</table>
SUGGESTED EXERCISES

Chapter 2: 2.1; 2.2
Chapter 3: 3.1; 3.5
Chapter 4: 4.1; 4.2
Chapter 5: 5.1 a; 5.3 a & b
Chapter 6: 6.3.a
Chapter 8: 8.1; 8.4 a
Chapter 11: 11.1.a; 11.3.a
Chapter 16: 16.1.a; 16.3.a