PSY 330.001 Psychological Statistics and Laboratory in Statistics

Spring, 2016

Class   McKibben 127   11:00AM –11:50AM   Monday, Wednesday, Friday
Lab     McKibben 127   Refer to your schedule.

Instructor: Scott Drury, Ph.D.
Office: McKibben 215 D
Email: drurygs@sfasu.edu
Phone: 936-468-1478
Office Hours: Monday/Wednesday 2:00-4:00; Tuesday/Thursday 12:00-3:00

Graduate assistant,
laboratory instructors: Stacey Kerr, Sarah Pelfrey, Kyle Ripley

Objectives:
Application of descriptive and inferential statistical techniques in processing behavioral data. The course includes normative techniques, parametric and nonparametric applications.

This course will introduce you to statistics and its application to psychological research. Objectives include an understanding of the relationship between probability and statistical inference, how to calculate basic equations involved in statistics, how to choose the correct statistical procedure, and how to interpret results.

Needed text:
You will need the text as soon as possible.

ISBN: 978-1-305-50491-2 [paperback]

You will need a handheld calculator that will compute square roots, etc. The most advanced calculators are not necessary. You should be able to find one for $20.
<table>
<thead>
<tr>
<th>Program Learning Outcomes or PLO</th>
<th>Proficiency Level</th>
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<tr>
<td>The student will demonstrate familiarity with major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.</td>
<td>Advanced</td>
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<tr>
<td>The student will understand and apply research methods in psychology, including research design, data analysis, and interpretation.</td>
<td>Advanced</td>
</tr>
<tr>
<td>The student will respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.</td>
<td>Advanced</td>
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<tr>
<td>The student will understand and apply psychological principles to personal, social, and organizational issues.</td>
<td>Intermediate</td>
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<tr>
<td>The student will value empirical evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a science.</td>
<td>Intermediate</td>
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**Student Learning Outcomes**

- A learner will demonstrate the ability to use statistics to describe data, including frequency distributions, percentiles, and histograms/polygons.
- A learner will demonstrate the ability to identify and calculate several measures of central tendency and variability.
- A learner will demonstrate the ability to use the hypothesis testing process.
- A learner will demonstrate an understanding of probability.
- A learner will demonstrate the ability to compute measures of correlation and test for statistical significance.
- A learner will demonstrate the ability to compute statistics, testing statistical significance of differences in means (t and z).
- A learner will demonstrate the ability to compute statistics, testing statistical significance of differences in variances (F and t).
- A learner will demonstrate an understanding of single-factor (between- and within-participants) ANOVA and factorial ANOVA (between-participants).
- A learner will demonstrate facility with statistical calculators and software (SPSS).
PSY 330 will be supported with D2L. Please log onto D2L January 20 to see a copy of the schedule. I will also post homework assignments there.

Important dates: The academic calendar can be found at [http://www.sfasu.edu/297.asp](http://www.sfasu.edu/297.asp).

**Point distribution**

Tests: 5 @ 66 points apiece = 330 (55.0%)

PSY 330L Lab Assignments/Activities

- with Kerr, Pelfrey, Ripley: 216 points 216 (36.0%)
- Take-home homework assignments listed at D2L: 54 points 54 (9.0%)

**Total Points:** 600 (100.0%)

**Grade distribution:**

- A 90-100%
- B 80-89%
- C 70-79%
- D 60-69%
- F below 60%

**Tests:** There will be five tests. **The test days will not change.** Computers and books may not be used. We will take tests as indicated on the schedule, which is listed in Excel on D2L.

**I deliberately hold that schedule separate from this document.**

**Missed Tests:** Missed tests are essentially not allowed. The integrity of the course relies on us taking the tests together and for students not having extra preparation time that other students do not enjoy.

If a student has a conflict that he/she is aware of now or in advance of the test, the fastest and most effective way to reach me is at my main email address at [drurygs@sfasu.edu](mailto:drurygs@sfasu.edu). There is an excused absence description toward the end of the syllabus.

If a makeup test absolutely must be administered, it should be within two days of the delivery of the test the other students took. The final cannot be taken at alternate time and cannot be made up. The final time is listed on the last page of the syllabus.
**Homework assignments:** There will be about 10 homework assignments that you will complete during the semester. The homework generally consists of problems from the back of the chapters that are intended to cement concepts. In my opinion, doing problems by hand, making mistakes, etc., ensconces learning like nothing else.

A complete and earnest attempt will earn a 10/10. A homework attempt that has a substantial number of errors or not-completed problems will earn 8/10. A homework attempt copied from another student and/or in severe disrepair will be awarded 0/10.

**Lab assignments with graduate assistants Stacey Kerr, Sarah Pelfrey, Kyle Ripley:**
You will receive a detailed syllabus when you attend lab beginning Tuesday, January 26, or Thursday, January 28.

**Attendance:** I will make class informative and valuable. Attendance is critical. You are responsible for all class material. Please make every effort to attend. Please be on time so that we can begin together as a group.

Of course, attendance is required for all five tests.
Acceptable student behavior: Classroom behavior should not interfere with the instructor’s ability to conduct class or the ability of other students to learn (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic, or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is inappropriate/appropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/tests may be referred to the Early Alert Program. This program provides students with recommendations and resources or other assistance that is available to help SFA students succeed.

Academic integrity (A-9.1): Abiding by university policy on academic integrity is a responsibility for all university faculty and students. Faculty members must promote the components of academic integrity in their instruction. Course syllabi are required to provide information about penalties for cheating and plagiarism as well as appeals processes. Much of this will be provided through internet links.

Definition of academic dishonesty: Academic dishonesty includes both cheating and plagiarism. Cheating includes, but is not limited to: 1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of the class; 2) falsification or invention of any information, including citations, on an assignment; and/or 3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism include, but are not limited to: 1) submitting an assignment as if it were one’s own work, when, in fact, it is at least partly the work of another; 2) submitting a work that has been purchased or otherwise obtained from the Internet or another source; and 3) incorporating the words or ideas of an author into one’s paper or presentation without giving the author due credit. Please read the complete policy and the appeals process at

http://www.sfasu.edu/policies/academic_integrity.asp and
http://www.sfasu.edu/policies/academic_appeals_students.asp

Withheld grades policy: At the discretion of the instructor of record and with the approval of the academic chair/director, a grade of “WH” will be assigned only if the student cannot complete coursework because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a “WH,” or the grade reverts to an “F.” If students register for the same course in future semesters, the “WH” will revert to an F and be counted as a repeated course for the purpose of computing grade point average.
Students with disabilities: To obtain disability-related accommodations, alternate formats, and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, Room 235, at 468-3004 or 468-1004 (TDD) early in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information go to http://www.safus.edu/disabilityservices/.

Excused absences policy:
(http://www.sfasu.edu/policies/class_attendance_excused_abs.asp) Students may be excused from attendance for reasons such as health, family emergencies, or student participation in approved university-sponsored events. Students are responsible for notifying instructors in advance for excused absences when possible.

Students are responsible for providing satisfactory documentation in a timely manner to the instructor for each absence. Whether absences are excused or unexcused, a student is responsible to course assignments. Students with excused absences may be permitted to make up work for a maximum of three weeks’ of absences during a semester, depending on the nature of the missed work. Make up work must be completed as soon as possible after returning from an absence in accordance with the course syllabus.

In the case of absences caused by participation in university sponsored events, announcement via mySFA will constitute official notification. Faculty members sponsoring activities that require students to be absent from other classes must submit to the provost an explanation of the absence, including the date, time, and alphabetical listing of all attending students. If approved by the provost, this information will be posted by mySFA.

Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to “iCare,” formerly known as the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.

Test schedule and covered topics:

I have held the course schedule separate on D2L to allow for changes.

The test days will not change.