PSY 3330-002 Psychological Statistics, Spring 2024

Class: McKibben 269  
10:00AM – 10:50AM  
Monday, Wednesday, Friday

Instructor: Scott Drury, Ph.D.  
Office: McKibben 215 D  
Email: drurygs@sfasu.edu  
Phone: 936-468-1478  
Office Hours: Monday/Wednesday 9:00-9:55  
Tuesday/Thursday 12:00-2:00

Course Description: 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.

Three Course Hours: Please keep in mind that, under federal financial aid eligibility requirements, SFA policy 5.4 defines the credit hour as “(1) Not less than one hour of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks for one semester hour of credit, or the equivalent amount of work over a different amount of time, or (2) at least an equivalent amount of work as outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practicum, studio work, and other academic work leading to the award of credit hours.” Thus, a three-credit-hour face-to-face course in the fall term should approximate three hours of classroom time/direct instruction and at least six hours of out-of-class work per week. Online or hybrid courses should employ various strategies for creating student-professor contact and are held to the same standard for contact hours and out-of-class work as face-to-face classes.

Please see the last page of the syllabus for the credit-hour justification for this course.
Needed text: You will need the text as soon as possible.


Calculator: You will need a calculator that will compute square roots. The $4 calculator at the bookstore is fine.
The student will demonstrate familiarity with major concepts, theoretical perspectives, empirical findings, and historical trends in psychology. **Advanced**

The student will understand and apply research methods in psychology, including research design, data analysis, and interpretation. **Advanced**

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. **Advanced**

The student will understand and apply psychological principles to personal, social, and organizational issues. **Intermediate**

The student will value empirical evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a science. **Intermediate**

**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 3330 will be supported with Brightspace/D2L. Please log onto Brightspace January 19, 2024 to see a copy of the schedule. I will also post homework assignments there.

Important dates: The academic calendar can be found at https://www.sfasu.edu/docs/academic-affairs/calendar-academic-year-2023-2024-8.21.1.29.pdf.

**Point distribution**

<table>
<thead>
<tr>
<th>Test</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>0.16</td>
</tr>
<tr>
<td>Test 2</td>
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<tr>
<td>Test 3</td>
<td>0.16</td>
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<tr>
<td>Test 4</td>
<td>0.16</td>
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<tr>
<td>Test 5</td>
<td>0.16</td>
</tr>
<tr>
<td>Homework assignments total</td>
<td>0.20</td>
</tr>
</tbody>
</table>

**Grade distribution:**

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

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

Institution Absences *(University of Texas HOP 04-110)*

An Institutional Absence may be granted to a student who participates as a representative of the University in academic (including research), extra- or cocurricular, or athletic activities. Students will be excused for institutional purposes from otherwise required academic activity only when a valid Institutional Absence is approved by the appropriate administrative unit or official and the documentation of approval is provided to the faculty member at least five (5) days in advance.

Disclaimer: We have no keystone events. The following is listed because I am required to list it. Institutional absences will not be approved for keystone events, defined as: a special or unique assignment, test, project, experience, or other academic exercise identified by the faculty member as critical for successful completion of standards of the class and unable to be missed. These events must be identified on the syllabus at the beginning of the semester and communicated to the students. Events added to the syllabus at a later date will not qualify for Keystone Event status. Keystone Events where the date/time is changed will no longer be considered a Keystone Event. Students should make themselves aware of any Keystone Events identified in the syllabus to ensure there are no conflicts.

For keystone events where the assignment dates vary, it is incumbent upon the students to work with their faculty member to not select a conflicting date.

More information on Institutional Absences, including how to apply, can be found at [https://www.sfasu.edu/deanofstudents/student-resources/institutional-absences](https://www.sfasu.edu/deanofstudents/student-resources/institutional-absences).
Academic integrity (A-9.1): The Code of Student Conduct and Academic Integrity outlines the prohibited conduct by any student enrolled in a course at SFA. It is the responsibility of all members of all faculty, staff, and students to adhere to and uphold this policy.

Articles IV, VI, and VII of the new University of Texas Code of Student Conduct and Academic Integrity outline the violations and procedures concerning academic conduct, including cheating, plagiarism, collusion, and misrepresentation. Cheating includes, but is not limited to: (1) Copying from the test paper (or other assignment) of another student, (2) Possession and/or use during a test of materials that are not authorized by the person giving the test, (3) Using, obtaining, or attempting to obtain by any means the whole or any part of a non-administered test, test key, homework solution, or computer program, or using a test that has been administered in prior classes or semesters without permission of the Faculty member, (4) Substituting for another person, or permitting another person to substitute for one’s self, to take a test, (5) Falsifying research data, laboratory reports, and/or other records or academic work offered for credit, (6) Using any sort of unauthorized resources or technology in completion of educational activities.

Plagiarism is the appropriation of material that is attributable in whole or in part to another source or the use of one’s own previous work in another context without citing that it was used previously, without any indication of the original source, including words, ideas, illustrations, structure, computer code, and other expression or media, and presenting that material as one’s own academic work being offered for credit or in conjunction with a program course or degree requirements.

Collusion is the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any provision of the rules on academic dishonesty, including disclosing and/or distributing the contents of an exam.

Misrepresentation is providing false grades or résumés; providing false or misleading information in an effort to receive a postponement or an extension on a test, quiz, or other assignment for the purpose of obtaining an academic or financial benefit for oneself or another individual or to injure another student academically or financially.
Withheld-grades policy: Ordinarily, 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 the 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 automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course to compute the grade point average. For additional information, go to https://www.sfasu.edu/policies/course-grades-5.5.pdf.

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 https://www.sfasu.edu/disabilityservices/.

Student Wellness and Well-Being: SFA values students’ overall well-being, mental health and the role it plays in academic and overall student success. Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, emotional well-being, alcohol and other drugs, identities, finances, etc.

If you are experiencing concerns, seeking help, SFA provides a variety of resources to support students’ mental health and wellness. Many of these resources are free, and all of them are confidential.
On-campus Resources:

The Dean of Students Office (Rusk Building, 3rd floor lobby)
www.sfasu.edu/deanofstudents
936.468.7249
dos@sfasu.edu

SFA Human Services Counseling Clinic Human Services, Room 202
www.sfasu.edu/humanservices/139.asp
936.468.1041

The Health and Wellness Hub “The Hub”
Location: corner of E. College and Raguet St.

To support the health and well-being of every Lumberjack, the Health and Wellness Hub offers comprehensive services that treat the whole person – mind, body and spirit. Services include:

• Health Services
• Counseling Services
• Student Outreach and Support
• Food Pantry
• Wellness Coaching
• Alcohol and Other Drug Education
www.sfasu.edu/thehub
936.468.4008
thehub@sfasu.edu

Crisis Resources:

• Burke 24-hour crisis line: 1.800.392.8343
• National Suicide Crisis Prevention: 9-8-8
• Suicide Prevention Lifeline: 1.800.273.TALK (8255)
• johCrisis Text Line: Text HELLO to 741-741
Credit-hour justification:
PSY 3330 “Psychological Statistics” (3 credits) is designed to introduce students to the application of descriptive and inferential statistical techniques to behavioral data. These techniques include normative, parametric, and nonparametric applications. The course typically meets 150 minutes a week in three 50-minute segments. The course runs for 15 weeks with a 2-hour final examination period. Students typically have significant weekly reading assignments, statistics homework, and are expected to take four pre-final examinations of their skills and knowledge of statistics. These activities average at a minimum 6 hours of work each week to prepare outside of classroom hours. Online course sections contain extensive written content that includes the same information students in a face-to-face lecture sections receive, requiring students to engage the online modules for at least three hours per week. For every hour a student spends engaging with the online content, he/she spends at least 2 hours completing associated activities and assessments.

Test schedule and covered topics:
I have held the course schedule separate on Brightspace/D2L.

The final-exam schedule for our class is below.

<table>
<thead>
<tr>
<th>If the class period is...</th>
<th>Your scheduled exam time is...</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 a.m.</td>
<td>Monday, May 6</td>
</tr>
<tr>
<td>9 a.m.</td>
<td>Wednesday, May 8</td>
</tr>
<tr>
<td>10 a.m.</td>
<td>Monday, May 6</td>
</tr>
</tbody>
</table>