

Statistical Methods in Practice
MATH/STAT 3379 Spring 2018
3379.11 TTH 12:30-1:50 pm

Instructor: Mrs. Cathy Lockwood
Office Location/Phone: LDB 428→936-
294-3232

Email: cathyl@shsu.edu or
cll011@shsu.edu

Office Hours: W 1:00-2:00, TTH 2:00 –
3:00 pm and All others by appointment.

Required Materials

Textbook: **Introductory Statistics, 10/e**

Author(s): Weiss, Neil

Textbook ISBN-13: 9780321989178

- Software: SPSS, minitab, and excel
- Graphing calculator: TI-83, 84 or 89.

Enter Your Blackboard Course:

- Sign in to Blackboard and enter your Blackboard course.
- Select Mystatlab under the Content area.

Get Access to Your Pearson Course Content:

You have an account if you have ever used a Pearson MyLab & Mastering product, such as MyMathLab, MyITLab, MySpanishLab, MasteringBiology or MasteringPhysics.

➤ If you don't have a Pearson account, select **Create** and follow the instructions.

1. Select an access option:

- Enter the access code that came with your textbook or was purchased separately from the bookstore.
- Buy access using a credit card or PayPal account.
- If available, get temporary access by selecting the link near the bottom of the page.

2. From the You're Done page, select **Go to My Courses**.

How this class will work this semester: this semester course is part of a grant, the structure of the class will be as follows:

Students work in pairs on everything except tests with grades as follows:

Online Homework/Quizzes - individual grades (since that is what is generated)

Labs - 1 paper will be collected/graded per pair

Classwork/Quiz papers - 1 paper will be collected/graded per pair

Tests - work individually/separate grades

Course Objective: To develop an understanding of and a facility for the concepts and applications of descriptive and inferential statistics.

Course Description: This course covers the fundamentals of statistical concepts and will guide the student through basic statistical procedures to permit critical insight into the science of collecting, classifying, presenting, and interpreting information from data. The three primary topics are covered. The first topic is descriptive statistics (graphic presentation of data, histograms, plots, charts, measures of central tendency, dispersion, and position, bivariate data analysis, linear correlation and regression analysis). The second topic is probability concepts and rules for calculating probabilities of compound events. The probability coverage also includes the more commonly occurring probability distributions such as the binomial and normal distributions. Finally, the third area of coverage is that of inferential statistics, including inferences involving one and two populations. Prerequisite: 3 semester hours of mathematics and consent of instructor

Technology-This course will rely heavily on SPSS statistical software. A student copy of SPSS can be download under samweb and IT ---home use programs.

Homework/Quizzes: Suggested homework assignments will be given for each section. This list of problems will be the *minimum* necessary for a full understanding of that material. You are certainly invited to do more. There will be a brief (5-10 minutes) quiz most weeks. This will test your knowledge of SPSS, minitab, excel and come directly from the homework. **NO** make-up quizzes will be given.

Exams/Project: There will be three to four (3-4) major exams and a comprehensive Final Exam and a mandatory comprehensive Project and 2- 5 Labs.

If you must miss class:

- a. Students who miss a scheduled exam must contact the instructor within 24 hours of the scheduled exam.
- b. Exams will only be made up if the university excuses the absence and thus you are able to provide **written** verification.
- c. Student athletes who anticipate missing a class, exam, or assignment due to a University sponsored athletic event must provide appropriate documentation and notification **PRIOR** to the absence.
- d. Make up exams will not be given if the exam has already been graded and passed back. I usually return exams within a week.
- e. You are responsible for obtaining all handouts and/or announcement information.
- f. Some materials are available ahead of time on our class website.

LATE WORK IS NOT ACCEPTED.

Grading Plan and Letter Grade: Might changes throughout the semester

A	900-1000	
B	800-899	➤ <i>Major Exams:</i> 500 pts
C	700-799	➤ <i>Quizzes/Projects/other:</i> 500 points
D	600-699	1000 points
F	Below 599	

Notes:

Attendance Policy:

- Catching up due to an unexcused absence is not my responsibility; it is yours.
- In the chance that you miss it is a good idea to have exchanged emails and/or phone numbers with your classmates on the first day of class.
- **IMPORTANT:** If you leave early without letting me know before class that there is a valid reason that you need to leave, then whatever was turned in that day (homework, quiz, extra credit...) will not be counted for credit.
- In cases where you do need to leave early and have let me know, please sit close to the door so as not to disrupt anyone on your way out.
- Attendance will be taken daily.

Miscellaneous Information:

- a. Cheating is a most serious offense - I will not hesitate to press for the most severe consequence allowed by the University. **YOU WILL ALSO RECEIVE an "F" FOR THE CLASS.**
- b. I will use the class website on blackboard to post grades, review materials including practice test, and a copy of quizzes after they have been taken in class. Periodically we will also have online assignments that count as quizzes.
- c. Issues that are not addressed politely and respectfully will not be addressed.
- d. No hats, headphones, or sunglasses are permitted during Exams or quizzes.
- e. No work, no credit, therefore, show all work. My rule of thumb is, if I cannot do it in my head, it is likely neither could or did you.
- f. Your cell phone needs to be turned off or on silent, not vibrate. Most importantly, it must be out of sight during class. A cell phone out during an exam will be considered cheating. You may not use your cell phone as a calculator.
- g. Please check your campus email regularly or forward your campus email to an email that you check regularly.
- h. Be respectful of the student around you at all times.
- i. Make sure you have read the syllabus carefully because you are responsible for what lies within it.

Recording Devices: Recording devices, such as cameras, audio recorders, or video recorders may not be used without prior approval of the instructor.

- **Electronic Devices:** The use by students of any device that is performing the functions of a telephone, text messages, or pager during class-time is prohibited. Arrangements for handling potential emergency situation uses of devices must be approved by the instructor in advance. Any use of a telephone, text messages, pager, PDA, or any device that performs these functions during a test period is prohibited. These devices should not be present during a test, or if present should be stored securely in such a way that they cannot be seen, heard, or used by a student. The visible presence of such a device during the test period will result in a zero for the test and/or an F in the class. Use of these devices during a test is considered de facto evidence of cheating.
- **Academic Dishonesty:** All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.
- **Classroom Rules of Conduct:** Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Cellular

telephones and pagers must be turned off before class begins. Students are prohibited from using tobacco products in class, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.

- **Visitors in the Classroom:** Unannounced visitors to class must present a current, official SHSU identification card to be permitted in the classroom. They must not present a disruption to the class by their attendance. If the visitor is not a registered student, it is at the instructor's discretion whether or not the visitor will be allowed to remain in the classroom.
- **Student Absences on Religious Holy Days Policy**

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). This request must be made in the first fifteen days of the semester or the first seven days of a summer session in which the absence(s) will occur. The instructor will complete a form notifying the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed.

- **Disabled Student Policy: 811006**

It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should register with the Office of Services for Students with Disabilities located in the Lee Drain Annex (telephone 936-294-3512, TDD 936-294-3786, and e-mail disability@shsu.edu). They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired.

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Services for Students with Disabilities and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made until you register with the Services for Students with Disabilities.

- For a complete listing of the university policy, see:
<http://www.shsu.edu/dept/academic-affairs/aps/aps-students.html>
- **Additional Information:** All information on this syllabus is subject to change. All changes will be announced in class.