Theory and Applications of Probability and Statistics I
MATH/STAT 4371 – Fall 2017
MWF 10:00 a.m. – 10:50 a.m.   LDB-400

Instructor: Dr. Stephen M. Scariano   Office: LDB 417-E
Office Hours: Monday & Wednesday: 3:00 p.m. - 5:00 p.m.   Phone: 294-1506
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Required Materials

      Text: *Probability and Statistical Inference (9th Ed.)* by Hogg, Tanis and Zimmerman
         (ISBN: 13-987-0-321-92327-1 or ISBN: 10-987-0-321-92327-8

      Calculator: Scientific (or Graphing) calculator similar to the TI-84 Plus.

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

Course Description: Topics include basic concepts and properties of probability, random variables, statistical distributions, measures of central tendency, variance, covariance, correlation, functions of random variables, sampling distributions, the Central Limit Theorem and statistical inference.

Prerequisite: Math 1430 (Calculus II)

Tests & the Examination: There will be two (3) tests during the course of the semester and a mandatory comprehensive final examination. Test dates are scheduled for **Friday**, **Sept. 22**, **Friday, Oct. 27**, and **Friday, Nov. 17**. The comprehensive final examination will be held on **Monday, December 4, 2017 (10:30 a.m. – 12:30 p.m.)**. *Makeup tests will **NOT** be given. If a test is missed, its grade will be replaced by the Final Examination grade.*

Homework and Quizzes: Homework assignments are given daily and should be regarded as the ***minimum*** necessary for a full understanding of the material and success on the tests and comprehensive final examination. I will generally post homework assignments on **BlackBoard**®. We will also have short pop quizzes, which will be graded and returned usually by the next class period. Since I am looking for spontaneity, there is no opportunity to make-up a missed pop quiz. Pop quizzes, in the aggregate, will contribute to the final point total.

Grades:

3 Tests (**Sept. 22, Oct. 27**, and **Nov. 17**)	(3 x 20%) = 60%	**A = 90% – 100%**
Quizzes (in the aggregate)	10%	**B = 80% – 89%**
Comprehensive Final Exam	30%	**C = 70% – 79%**
Total	100%	**D = 60% – 69%**
		F = below 60%

I seek your best scholarship on the pop quizzes, three tests and final examination.
No "extra credit" work will be allowed.

Notes:

- **Attendance:** You should attend all classes and you must complete all homework assignments; success in the course will absolutely depend upon it. Homework is the KEY TO SUCCESS!

- **SHSU UNIVERSITY POLICY: The use by students of electronic devices that perform the function of a telephone or text messenger during class time is strictly prohibited.** Failure to comply with this policy will result in expulsion from the classroom or, with multiple offenses, failure of the course. These devices may not be present during a test. Even the visible presence of such a device during testing periods will result in a zero grade for that testing instrument. Use of these devices during a test is considered *de facto* evidence of cheating and could result in a charge of academic dishonesty.
  (cf: Code of Student Conduct and Discipline at http://www.shsu.edu/students/guide).

- **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. (cf: Code of Student Conduct and Discipline at http://www.shsu.edu/students/guide).

- **Disability Issues** - 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 are expected to visit with the Office of Services for Students with Disabilities located in the Counseling Center. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Counseling Center 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 Counseling Center. For a complete listing of the university policy access the Student Guidelines webpage at http://www.shsu.edu/students/guide.

  Students with disabilities may request assistance with the admissions or registration process by contacting the Undergraduate or Graduate Admissions Office (telephone 936-294-1828, TDD 936-294-3788, and e-mail admissions@shsu.edu) or the Registrar's Office (telephone 936- 294-1040, TDD 936-294-3789, and e-mail ask.regstaff@shsu.edu), respectively.

- **Student Absences On Religious Holy Days Policy** – Students are excused from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. For a complete listing of the university policy, access the Student Guidelines webpage at http://www.shsu.edu/students/guide).

- **Visitors In The Classroom** - Only registered students may attend class. Exceptions can be made on a case-by-case basis only if approved, in advance, by the instructor. In all cases, visitors must conform to typical expectations of classroom etiquette.