Syllabus: MATH/STAT 1369.03 Elementary Statistics
Fall – 2017

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Instructor: Heranga Kalpani Rathnasekara
Contact: hkr009@shsu.edu
Class Hours: MWF 11:00 AM – 11:50 AM in LDB 208
Office Hours: MW 2:00 PM – 3:00 PM in LDB 404 or TTH by appointment only

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Textbook and Materials:

Elementary Statistics: A Step by Step Approach, Seventh Edition by Allan G. Bluman

- Connect Math Class Code: A9MXK– XQFWL
- Connect Access Card with Printed Text; ISBN 9781259977701
- Connect Access Card with eBook; ISBN 9781259401237

Course Objectives:

The learning outcomes for this course shall include but not be limited to the following:

1. Statistics as the science of learning from data and its use in decision making to everyday real world problems

2. Gain knowledge on different graphical representations of data

3. An understanding of the meanings of various descriptive statistics

4. Develop proficiency in solving various probability problems

5. Gain an understanding and be able to apply the Central Limit Theorem

6. A collection of statistical methods (point estimation, confidence interval, and hypothesis testing) for analyzing and interpreting the data and an understanding of the reasoning for statistical inference

Course Description:

Introduction to Statistics, organization and description of data, basic probability principles, some discrete and continuous probability distributions, sampling distribution, point estimation, confidence interval estimation, hypothesis testing, small sample inferences, and comparing two treatments. We will focus on the real world problems from different fields such as medical sciences, social sciences, life sciences, business & engineering among others to provide necessary background on data analysis

techniques. We will spend ample amount of time in clarifying the basic concepts by illustrating varieties of examples.

Quizzes:

Quizzes are given every Friday at the beginning of the class period for about 10- 15 minutes, except for test days. If you come in late, you will not be given additional time. The quizzes will be closed book and closed notes. There will be no make- up quizzes. The lowest one quiz grade will be dropped at the end of the semester. Please refer to the academic calendar below for quiz dates.

Homework:

Homework problems offer practice for applying course materials and is an effective way for mastering the course materials. You are expected to complete the Connect Math homework for each chapter we cover in class. Late homework turned in within 24 hours after the due date will be will penalized by 50%. No credit will be given for homework turned in after the 24- hour grace period.

Exams:

Three midterms (15% each) and a cumulative final exam (compulsory) will be given during the semester. The cumulative final exam will carry 20% of the total grade. The lowest one midterm grade may be replaced by the final grade if your final exam percentage grade is greater than the lowest midterm grade. Missing any of the three midterm exams without prior notice to the instructor and official excuse will result in no credit given towards that midterm grade. Reasons for excused absences include documented illness, deaths in the immediate family and other documented crises, call to active military duty, court- imposed legal obligations (e.g., jury duty and subpoenas), religious days, special requirements of other courses and university sponsored events (e.g., performances, games/meets, judging trips, field trips), and severe weather conditions.

Exam dates:

Midterm 1	Midterm 2	Midterm 3	Final Exam (Cumulative)
Friday, September 22	Friday, October 20	Friday, November 20	Wednesday, December 6 12:00 pm – 2:00 pm

Attendance:

Class attendance is extremely important to succeed in this course. Roll will be taken randomly once a week. Up to two points will be awarded to the overall score for those students having a high attendance rate. Factors like class participation and obeying all

the classroom rules are also considered for these two extra points. You are responsible to cover or collect the course materials for any class you missed.

Grading Policy:

Homework	15%
Quizzes	20%
3 Midterm Exams	45% (15% each)
Cumulative Final Exam	20%
Total	100%

Grading Scale:

90 % or above	A
80%–89%	B
70%–79%	C
60%–69%	D
Below 60%	F

Tutoring:

The math tutoring program provides small group and one–on–one tutoring for students seeking help in math and statistic courses. For current hours and schedule, visit: www.shsu.edu/asc.

Important Dates:

Classes Begin	Wednesday, August 23
Labor Day	Monday, September 4
Last day to drop without a Q grade and receive 100% refunds	Friday, September 8
Last day to drop with a Q grade	Friday, November 10
Thanksgiving Break – No Classes	November 22–24
Final Exam Week	December 4–7

Classroom Etiquette:

Classroom behavior that interferes with (a) the instructor's ability to conduct the class or (b) the ability of students to benefit from instruction is not acceptable. Examples of such behaviors include routinely entering the class late or departing early; use of cellular phones or other electronic devices; repeatedly talking in class without being recognized. If a student must carry a beeper/cell phone to class, prior notice and approval of the instructor is required.

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 4 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. The university policy and procedures in case of alleged academic dishonesty is explained in Academic Policy Statement 810213: http://www.shsu.edu/dotAsset/728eec25–f780–4dcf–932c–03d68cade002.pdf

Incomplete Grade Policy:

An "X" grade indicates incomplete coursework and may be awarded students. See full policy at http://www.shsu.edu/gradcat/scholasticrequirements.html

Student Disability Policy:

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. See the university policy at: http://www.shsu.edu/dotAsset/7ff819c3–39f3–491d–b688–db5a330ced92.pdf

Religious Holidays:

University policy states that a student who is absent from class for the observance of a religious holiday must be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. Students must be excused to travel for observance of a religious holiday. A student who wishes to be excused for a religious holy day must present the instructor with a written statement describing concerning the holy day(s) and the travel involved. The instructor should provide the student with a written 5 description of the deadline for the completion of missed exams or assignments. Seethe university policy for religious holidays at: http://www.shsu.edu/dotAsset/0953c7d0- 7c04- 4b29- a3fc- 3bf0738e87d8.pdf

Academic Policy Manual:

For a complete listing of the university policy, see http://www.shsu.edu/dept/academic- affairs/aps/aps- students.html

Academic Calendar:

Week of:	Monday	Wednesday	Friday
08/21	21	23 Syllabus + Chapter 1	25 Quiz 1 (Take Home)
08/28	28 Chapter 2	30	01 Quiz 2
09/04	04 Holiday (No Class)	06 Chapter 3	08 Quiz 2
09/11	11	13 Chapter 4	15 Quiz 3
09/18	18	20 Review	22 Midterm 1
09/25	25 Chapter 5	27	29 Quiz 4
10/02	02	04 Chapter 6	06 Quiz 5
10/09	09	11	13 Quiz 6
10/16	16	18 Review	20 Midterm 2
10/23	23 Chapter 7	25	27 Quiz 7
10/30	30	01 Chapter 8	03 Quiz 8
11/06	06	08	10 Quiz 9
11/13	13 Chapter 9	15	17 Review
11/20	20 Midterm 3	22 Thanksgiving (No Class)	24 Thanksgiving (No Class)
11/27	27 Review	29 Quiz 10	01 Review
12/04	04	06 Final Exam (Cumulative) December 6, 12:00 – 2:00	Have a fantastic Holiday!

Schedule is subject to change and will be announced in class

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