

**STAT/MATH 3379. Sec. \_03\_ Statistical Methods in Practice  
Spring 2018, Sam Houston State University**

**Class:** LDB 415, MWF 8:00 – 8:50am

**Instructor:** Ejike Edeh

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**Office:** LDB 414 , Phone: 936.294.3523

**Office Hours:** Mon. 10-11am MWF Or by appointment.

**Academic Success Center:** Located in Farrington 104. Open Monday-Thursday 8:00AM-9:00PM, Friday 8:00AM-3:00PM, Saturday CLOSED, Sunday 2:00PM-9:00PM

**Textbook:** Introductory Statistics by Neil Weiss, 10<sup>th</sup> Edition

**Required Materials:** You will need a Ti 84 calculator. Calculators with a CAS system (i.e., TI-89 and TI-Nspire) are not allowed. You may not use the calculator on your phone class assessments and exams.

**Course Description:** Topics include organization and presentation of data; measures of central tendency, dispersion, and position; probability distributions for discrete and continuous random variables, sampling techniques, parameter estimation, and hypothesis testing. Emphasis will be given to the use of statistical packages. Also offered as MATH 3379. Credit 3

**Course Objectives** Upon completion of this course, student will be able to:

1. Construct and interpret graphical summaries of data
2. Compute and interpret confidence intervals
3. Compute and interpret tests of statistical Hypothesis
4. Realize the limitations of statistics in real world
5. Produce a research report on issue of interest

**Technology:** SPSS will be used to illustrate practical implementation of objective 1 above. As a registered student, you will have access to SPSS in computers in all school labs. A student copy of SPSS can be purchase at: <https://www.ibm.com/us-en/marketplace/spss-statistics-gradpack>

**Homework – 10%**

Homework will be assigned weekly most of the time. They are meant to serve as a resource material and practice questions to prepare students for the chapter continuous assessments (see tentative calendar for detail)

**Continuous Assessment (5 in all, 14% each)**

There will be 5 in class continuous assessments which will be computational in nature. They are meant to assess students progress in understanding mathematical computations of statistical concepts covered in the course. Questions on the continuous assessments will come from the homeworks. You must have a score of 70% or above to be allowed to take the continuous assessment for the related chapter(s). Tentative dates (subject to change) could be found on the course calendar. Students who have legitimate reason to be absent on the day of any of the assessments are required to make arrangement to take the assessments ahead of the class date. There are NO MAKE UPS for continuous assessments.

**Final exam -20%**

There will be a written cumulative final exam. This exam will be made up of randomly selected questions from all 5 continuous assessments (the same concepts with similar structure but not exactly the same questions).

**Attendance/Participation (Extra credit) - 5%** Attendance is critical for success in this course. Attendance will be taken regularly and each student is required to have attended class at least 90% of the time to be eligible for extra credit for maximum of 5% point towards the final grade. Request for absence can only be made through emails with attached supporting documents to legitimize reason for absence. Students are responsible for getting any announcements and material covered in class when absent or late in class. I may not be able to respond to emails asking for what was covered or is to be covered in class.

**Classroom Rules of Conduct:** You are expected to turn off all cell phones, PDA, Blackberry, IPOD, and all noise making devices (e.g., beepers) while in the classroom. Under no circumstances are cell phones or any electronic devices to be used or seen during class. Please do not play games, send messages, surf the internet, etc. during class.

Further guidelines for classroom conduct (including absences on religious holy days) are available at <http://www.shsu.edu/academics/syllabus-guidelines/>

The university policy on cell phones is at [http://www.shsu.edu/~org\\_sen/pdf/CellPhone%20Policy%20\(AP%20100728\).pdf](http://www.shsu.edu/~org_sen/pdf/CellPhone%20Policy%20(AP%20100728).pdf)

### Collaboration & Plagiarism

On homework it is acceptable to receive tutoring from Academic success center or any resource accessible to students. Students are also encouraged to discuss the problems with other students. However, anything students/group submit for grading must be in their own words, with their understanding of the material. To turn in material that is written in someone else's words or computations is plagiarism. On in-class assessments, all the work students turn in must be their own, without any aid from anyone else. Giving or receiving aid on in-class quizzes and exams will be considered plagiarism ("cheating.") In this class, the penalties for plagiarism will include at least a zero grade on the submitted material and most likely a failing (F) grade in the course with a referral to a disciplinary committee.

**Disability Policy:** <http://www.shsu.edu/dotAsset/7ff819c3-39f3-491d-b688-db5a330ced92.pdf>

### Grading Scheme

s/n	Item	Coverage	Date	%age
1	Homework			10
2	Continuous Assessment 1	Chapt 1&2	02/02	14
3	Continuous Assessment 2	Chapt 3	02/23	14
4	Continuous Assessment 3	Chapt 5&6	03/09	14
5	Continuous Assessment 4	Chapt 7&8	04/06	14
6	Continuous Assessment 5	Chapt 9	04/27	14
7	Final	Cumulative	05/04	20
	<b>Total</b>			<b>100%</b>
8	Extra Credit*			5%

Letter Grades	Scheme
A	≥ 90%
B	80% to 89%
C	70% to 79%
D	60% to 69%
F	< 60%

\* Available to those who have at least 90% attendance