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Statistics Course Syllabus 2022-23

Instructor: J. Anchors

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Room: 3212

Office Hours: TBD

I. Course Description/Overview

This course is a practical hands-on approach to the study of statistics and probability. The topics include the use of graphs such as histograms, stem plots, time plots, and scatter plots to display data, using numbers such as median, mean, and standard deviation to describe data, and evaluating data distribution. Students examine relationships using correlations and least square regressions. They calculate the probability of simple and compound events. They learn to estimate with confidence as well as to explore tests of significance, and to evaluate the validity of statistics contained within published reports.

II. Course Objectives

- Explore data, observe patterns and departures from patterns
- Plan studies, deciding what and how to measure
- Anticipate patterns in advance, producing models using probability and simulation
- Utilize statistical inference to confirm models.
- Formulate and defend reasoned positions after analyzing data
- Apply statistical tools to explore topics relevant to SHHS students

III. Required Materials

1. A 3-ring binder with loose leaf paper is recommended. Spiral bound notebooks are acceptable
2. An ample supply of pencils. Work done in pen will not be accepted.
3. Graphing calculator and computer. (Will be provided by the school)

IV. Course Grading Policy

6 six week grading periods broken up into 2 semester. Each semester's grades will consist of the following:

- 40% - Classwork and participation
- 30% - Quizzes to randomly be given out
- 10% - Group project
- 20% - Midterm/Final

V. Absences and Make-Up Policy

Any classwork/quiz/test missed due to an absence will be given ample time determined by me to be completed.