**MATH 255: ELEMENTARY STATISTICAL METHODS**

INSTRUCTOR: Clare Hemenway

OFFICE: Room 87F

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OFFICE HOURS: MF 10-11, MW 3 to 4, Th 1 to 2

Plus, many other times—just ask or drop by!

CLASS TIME AND PLACE: MW 1:00-1:50 in Room 193

TEXT: *Elementary Statistics, A Step by Step Approach, A Brief Version, 6th Edition,* Paperback, by Bluman

A calculator with two variable statistical functions is a must. I will recommend certain calculators.

Chapters 1 through 3, some of Chapter 4, Chapters 5, 6 through 9, parts of Chapters 10, Chapter 11

Topics covered: Descriptive Statistics (both graphical and numerical), elementary probability concepts, random variables, Inferential Statistics (confidence intervals and hypothesis testing) for a single population mean and binomial parameter and for two population means and two binomial parameters, linear regression, Chi Square tests, one-way ANOVA)

HOMEWORK is assigned most days; it will not be collected. It is your responsibility to keep up with assignments and ask questions

TESTS: (tentative test dates) Wednesday, September 25

Monday, October 21

Wednesday, November13

Monday, Dec 9

FINAL: (definite date and time) Tuesday, December 17 12:30 to 2:30

GRADING: 4 tests 75% (I will drop one test, so 25% apiece)

Comprehensive Final 25%

A possible 6 points extra credit (added to a test score) may be obtained through in class and take home activities and quizzes.

If you MUST miss a test, you MUST notify me ahead of time (unless it is an emergency) and I will either use this as your dropped test or, if the excuse is deemed reasonable, you might be allowed to take the test at a different time. At most one test will be allowed to be taken at a different time.

GRADING RUBRIC

A average A- 90

B+ B 82 B-

C+ C C-

D+ D

F

COURSE OBJECTIVES:

* To become aware of both the prevalence and importance of statistics in our everyday lives
* To become a more informed consumer of statistics in our everyday lives
* To learn how to describe, organize, and summarize data in meaningful ways
* To learn how to analyze data, make predictions, and interpret the results
* To have FUN (yes, fun) along with some inevitable FRUSTRATION in learning statistics