INTRODUCTION TO STATISTICS-STATISTICS 1

WINTER 2026
FACULTY: AL JOSEPHY, josephya@evergreen.edu

THURSDAY EVENINGS, 6-9 P.M.
FRIDAY LABS 6-9:00 P.M. (WEEKS 3, 5, 7 AND 9)

CLASS DESCRIPTION:

This class is intended as an introduction to the concepts of Statistics, by developing an understanding of Descriptive Statistics. Inferential Statistics will be discussed at an introductory level along the way. The class assumes that the student has no prior background in the study of Statistics. With that in mind, the class will present the basic ideas of what Statistic is, how the practice of Statistics relates to the real world, and why an understanding of Statistics is critical to the natural and social sciences.

The goals of the class will be to 1) introduce the student to the language and concepts of Statistics, 2) help the student to become comfortable with the ideas of presenting data in charts, graphs and tables, 3) demonstrate the importance of sampling and surveys and in understanding the data generated and 4) involve the student in understanding how Statistics is used to explain natural phenomena, promote public policy, and tell us things about the world that we can never know without it.

We will achieve these class goals through an interactive program that will require extensive participation by the students. Besides our regular work with the textbook, the class will back up the discipline by integrating more subjective material on the subject from other resources. For example, as final presentation, students will be asked to analyze a statistical study and report on its findings. Finally, the classroom work will be augmented with four two-hour lab sessions, during which the student will get basic hands-on exposure to the use of Excel, and its statistical and calculating tools.

Our textbook will be Elementary Statistics by Mario Triola, edition 13. Copies are available in the Evergreen Greener Store.

Below is an outline of topics we will explore in this class: **(This class is not hybrid. All sessions including labs will be conducted in the evening on campus. Currently, class will meet weekly at 6 P.M. in Seminar 2, A1107.)**

WEEK 1: INTRODUCTION TO DESCRIPTIVE STATISTICS. DATA TYPING

WEEK 2: SUMMARIZING AND GRAPHING DATA

WEEK 3:.MEASUREMENTS OF DATA

      EXCEL WORKSHOP #1: BASIC DATA ENTRY

WEEK 4: INTRODUCTION TO PROBABILITY

WEEK 5: NORMAL PROBABILITY DISTRIBUTIONS

      EXCEL WORKSHOP #2: GRAPHING AND CHARTING METHODS

WEEK 6:. NORMAL PROBABILITY DISTRIBUTIONS (CONT.)

WEEK 7: STATISTICAL INFERENCE: ESTIMATING PARAMETERS

      EXCEL WORKSHOP #3: STANDARDIZING AND NORMALIZING DATA

WEEK 8: INFERENCE CONTINUED: HYPOTHESIS TESTING

WEEK 9: CORRELATION AND REGRESSION

      EXCEL WORKSHOP #4.

WEEK 10: WRAP UP