**Elementary Statistics**

Managing Variability & Error
by Scott Alan Guth

Lesson Notes!!

Section 1.1 An Introduction to Statistics

**WHY study statistics?**

You may need to do research yourself!

Critical Thinking
Read, understand & be wary of research.

**Key Terms:**

- **Population:** the entire collection of information that is of interest. Populations tend to be very large!

- **Sample:** a sample is a subset of a population.

- **Parameter:** a numerical summary value that characterizes a population.

- **Statistic:** a numerical summary value that characterizes a sample.

- **Inference:** using statistics to make conjectures about parameters.