

## **DSO101 Lesson 4 Common Descriptive Study Guide:**

### **Key MS Excel/Google Sheets Formulas and descriptions:**

=average() Calculates mean: The sum of all numbers divided by the number of numbers.

=median() Calculates the median: measures of central tendency looks at the exact middle of the data

=mode() Calculates the mode: The number that most frequently occurs

=min() Calculates the smallest value, assists in finding the range when subtracted from the max value

=max() Calculates the largest value, assists in finding the range when subtracting the min value

=stdev.s() Calculates the standard deviation: A measure of the spread of values in a dataset

=var.s() Calculates the variance: measures of distribution is the standard deviation squared

=quartile() Calculates the values for quartiles: data is broken up into four equal parts (quarters)

### **Key Terms/Descriptions:**

**Range:** The distance between the highest and the lowest number in a dataset.

**Inter-Quartile Range:** The distance between the third and first quartile.

**Confidence Interval:** The range from the lower confidence limit to the upper confidence limit is called the confidence interval. It provides a range for where the true mean of a population lies.

**Critical Value (CV):** Something used to calculate the margin of error.

**Parameter:** A numerical value that describes a characteristic of a population.