

Math/Stat 370: Engineering Statistics

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Week 5

Univariate Data Summary

- Sample of observations: x_1, x_2, \dots, x_n .

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- **Sample mean:**

$$\bar{x} = \frac{x_1 + x_2 + \dots + x_n}{n} = \frac{\sum_{i=1}^n x_i}{n}.$$

The sample mean describes the central tendency in the data and provides a reasonable estimate of the population mean μ (usually unknown).