

# Lecture 6: Chapter 4, Section 2

## Quantitative Variables

### (Displays, Begin Summaries)

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- Summarize with Shape, Center, Spread
- Displays: Stemplots, Histograms
- Five Number Summary, Outliers, Boxplots

# Looking Back: *Review*

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- **4 Stages of Statistics**
  - Data Production (discussed in Lectures 1-4)
  - Displaying and Summarizing
    - Single variables: 1 cat. (Lecture 5), 1 quantitative
    - Relationships between 2 variables
  - Probability
  - Statistical Inference

## Example: *Issues to Consider*

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- **Background:** Intro stat students' earnings (in \$1000s) previous year: 12, 3, 7, 1, ... [survey was anonymous].
- **Questions:**
  - What population do the data represent?
  - Were responses unbiased?
- **Responses:**
  - All students at that university, if sample was representative in terms of [redacted]
  - Probably unbiased because [redacted]

***Looking Back: These are data production issues.***