



Use this chart to keep track of your progress through the *Data Analysis, Statistics, and Probability* online course.

Session 1: Statistics As Problem Solving

- Part A: A Problem-Solving Process
- Part B: Data Measurement and Variation
- Part C: Bias in Measurement
- Part D: Bias in Sampling
- Homework

Session 2: Data Representation

- Part A: Patterns in Variation
- Part B: Line Plots
- Part C: Frequency Tables
- Part D: The Median
- Part E: Bar Graphs and Relative Frequencies
- Homework

Session 3: Describing Distributions

- Part A: Organizing Data in a Stem and Leaf Plot
- Part B: Histograms
- Part C: Relative and Cumulative Frequencies
- Part D: Ordering Hats
- Homework

Session 4: The Five-Number Summary

- Part A: Min, Max, and the Two-Number Summary
- Part B: The Median and the Three-Number Summary
- Part C: Quartiles and the Five-Number Summary
- Part D: The Box Plot
- Part E: Finding the Five-Number Summary Numerically
- Homework

Session 5: Variation About the Mean

- Part A: Fair Allocations
- Part B: Unfair Allocations
- Part C: Using Line Plots
- Part D: Deviations from the Mean
- Part E: Measuring Variation
- Homework

Session 6: Designing Experiments

- Part A: Comparative Studies
- Part B: Comparative Observational Studies
- Part C: Comparative Experimental Studies
- Homework

Session 7: Bivariate Data and Analysis

- Part A: Scatter Plots
- Part B: Contingency Tables
- Part C: Modeling Linear Relationships
- Part D: Fitting Lines to Data
- Homework

Session 8: Probability

- Part A: Probability in Statistics
- Part B: Mathematical Probability
- Part C: Analyzing Binomial Probabilities
- Part D: Are You a Random Player?
- Homework

Session 9: Sampling and Estimation

- Part A: Random Samples
- Part B: Selecting the Sample
- Part C: Investigating Variation in Estimates
- Part D: The Effect of Sample Size
- Homework

Session 10: Classroom Case Studies

Grades K-2:

- Part A: Statistics as a Problem-Solving Process
- Part B: Developing Statistical Reasoning
- Part C: Inferences and Predictions
- Part D: Examining Children's Reasoning
- Homework

Grades 3-5:

- Part A: Statistics as a Problem-Solving Process
- Part B: Developing Statistical Reasoning
- Part C: Inferences and Predictions
- Part D: Examining Children's Reasoning
- Homework

Grades 6-8:

- Part A: Statistics as a Problem-Solving Process
- Part B: Developing Statistical Reasoning
- Part C: Inferences and Predictions
- Part D: Examining Children's Reasoning
- Homework