

# AP Statistics Curriculum Map

Textbook Used: The Practice of Statistics for the AP Exam, 5<sup>th</sup> Ed. By Starnes, Tabor, Yates, and Moore, W.H. Freeman and Company/BFW New York, 2015. ISBN: 978-1-4641-0873-0

**Chapter 1:** Graphs and Number Summaries (Aug-Sept.—9 Days)

- 1.1 Analyzing Categorical Data
- 1.2 Displaying Quantitative Data with Graphs
- 1.3 Describing Quantitative Data with Numbers

**Chapter 2:** Normal Distributions and Percentiles (Sept.—9 days)

- 2.1 Describing Location in a Distribution
- 2.2 Density Curves and Normal Distributions

**Chapter 3:** Scatterplots and Correlation (Sept-Oct – 9 days)

- 3.1 Scatterplots and Correlation
- 3.2 Least-Squares Regression

**Chapter 4:** Sampling and Experiments (Oct – 16 Days)

- 4.1 Sampling and Surveys
- 4.2 Experiments

**Chapter 5:** Probability (Nov – 15 days)

- 5.1 Randomness, Probability, and Simulation
- 5.2 Probability Rules
- 5.3 Conditional Probability and Independence

**Chapter 6:** Random Variables (Nov-Dec –14 days)

- 6.1 Discrete and Continuous Random Variables
- 6.2 Transforming and Combining Random Variables
- 6.3 Binomial and Geometric Random Variables

**Semester 1 Review and Cumulative Final Exam** (Dec – 4 days)

**Chapter 7:** Sampling Distributions (Jan – 9 days)

- 7.1 What is a Sampling Distribution
- 7.2 Sample Proportions
- 7.3 Sample Means

**Chapter 8:** Confidence Intervals (Jan-Feb – 10 days)

- 8.1 Confidence Intervals: The Basics
- 8.2 Estimating a Population Proportion
- 8.3 Estimating a Population Mean

**Chapter 9:** Hypothesis Tests (Feb – 14 days)

- 9.1 Significance Tests: The Basics
- 9.2 Tests about a Population Proportion
- 9.3 Tests about a Population Mean

**Chapter 10:** Comparing two populations (Mar – 9 days)

- 10.1 Comparing Two Proportions
- 10.2 Comparing Two Means

**Cumulative  $\frac{3}{4}$  Midterm** (Mar – 2 days)

**Chapter 11:** Chi-Square Tests (Mar-Apr – 8 days)

- 11.1 Chi-Square Tests for Goodness of Fit
- 11.2 Inference for Two-Way Tables

**Chapter 12:** Linear Regression T-Test (Apr – 8 days)

- 12.1 Inference for Linear Regression
- 12.2 Transforming to Achieve Linearity

**Final Exam Review** (Apr-May – 16 days)

**Final Project** (May – 6 days)