

AP Statistics Syllabus

**Sections Align to The Practice of Statistics, Second edition – By Yates, Moore, & Starnes*

FIRST MARKING PERIOD

Chapter 1: Exploring Data

- 1.1 Displaying Distributions with Graphs
- 1.2 Describing Distributions with Numbers

Chapter 2: The Normal Distributions

- 2.1 Density Curves and the Normal Distributions
- 2.2 Standard Normal Calculations

Chapter 3: Examining Relationships

- 3.1 Scatterplots
- 3.2 Correlation
- 3.3 Least-Squares Regression

SECOND MARKING PERIOD

Chapter 4: Examining Relationships

- 4.1 Transforming Relationships
- 4.2 Cautions about Correlation and Regression

Chapter 5: Producing Data

- 5.1 Designing Samples
- 5.2 Designing Experiments
- 5.3 Simulating Experiments

Chapter 6: Probability: The Study of Randomness

- 6.1 The Idea of Probability
- 6.2 Probability Models
- 6.3 General Probability Rules

Chapter 7: Random Variables

- 7.1 Discrete and Continuous Random Variables
- 7.2 Means and Variances of Random Variables

Chapter 8: The Binomial and Geometric Distributions

- 8.1 The Binomial Distribution

THIRD MARKING PERIOD

Chapter 9: Sampling Distributions

- 9.1 Sampling Distributions
- 9.2 Sample Proportions
- 9.3 Sample Means

Chapter 10: Introduction to Inference

- 10.1 Estimating with Confidence
- 10.2 Tests of Significance
- 10.3 Making Sense of Statistical Significance
- 10.4 Inference as Decision

Chapter 11: Inference for Distributions

- 11.1 Inference for the Mean of a Population
- 11.2 Comparing Two Means

Chapter 12: Inference for Proportions

- 12.1 Inference for a Population Proportion
- 12.2 Comparing Two Proportions

Chapter 13: Inference for Tables: Chi-Square Procedures

- 13.1 Test for Goodness of Fit
- 13.2 Inference for Two-Way Tables

FOURTH MARKING PERIOD

Chapter 14: Inference for Regression

- 14.1 Inference About the Model

Review for AP Exam

Project(s) [As time allows]

Assessment Information

<u>Marking Period 1</u>	<u>Marking Period 2</u>	<u>Marking Period 3</u>	<u>Marking Period 4</u>
Major (MAJ): Summative 55%	Major (MAJ): Summative 55%	Major (MAJ): Summative 55%	Major (MAJ): Summative 55%
Minor (MIN): Formative 25%	Minor (MIN): Formative 25%	Minor (MIN): Formative 25%	Minor (MIN): Formative 25%
Class Participation (CP): 5%	Class Participation (CP): 5%	Class Participation (CP): 5%	Class Participation (CP): 5%
Homework (HW): 15%	Homework (HW): 15%	Homework (HW): 15%	Homework (HW): 15%