



# ALLEN ACADEMY

## Statistics Course Description 2019-2020

First Trimester	Second Trimester	Third Trimester
<p><b>Unit 1 - Exploring and Understanding Data</b></p> <ul style="list-style-type: none"><li>* Stats Start Here</li><li>* Data</li><li>* Displaying and Describing Categorical Data</li><li>* Displaying and Summarizing Quantitative Data</li><li>* Understanding and Comparing Distributions</li><li>* The Standard Deviation as a Ruler and the Normal Model</li></ul> <p><b>Unit 2 - Exploring Relationships Between Variables</b></p> <ul style="list-style-type: none"><li>* Scatterplots, Association, and Correlation</li><li>* Linear Regression</li><li>* Regression Wisdom</li><li>* Re-expressing Data: Get It Straight!</li></ul>	<p><b>Unit 3 - Gathering Data</b></p> <ul style="list-style-type: none"><li>* Understanding Randomness</li><li>* Sample Surveys</li><li>* Experiments and Observational Studies</li></ul> <p><b>Unit 4 - Randomness and Probability</b></p> <ul style="list-style-type: none"><li>* From Randomness to Probability</li><li>* Probability Rules!</li><li>* Random Variables</li><li>* Probability Models</li></ul>	<p><b>Unit 5 - From the Data at Hand to the World at Large</b></p> <ul style="list-style-type: none"><li>* Sampling Distribution Models</li><li>* Confidence Intervals for Proportions</li><li>* Testing Hypotheses About Proportions</li><li>* More About Tests and Intervals</li><li>* Comparing Two Proportions</li></ul> <p><b>Unit 6 - Learning About the World</b></p> <ul style="list-style-type: none"><li>* Inferences About Means</li><li>* Comparing Means</li><li>* Paired Samples and Blocks</li></ul>

**Instructional Resources:**  
TI-83/84 Graphing Calculator  
Stats: Modeling the World (digital text)