



**SOUTHERN LEHIGH SCHOOL DISTRICT**  
5775 Main Street  
Center Valley, PA 18034

## **Planned Course for Mathematics**

**Course:** Advanced Placement (AP) Statistics

### **College Board Course Skills**

- Selecting Statistical Methods
- Data Analysis
- Using Probability and Simulations
- Statistical Argumentation

### **Course Description:**

The AP STATISTICS course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes: exploring data; planning a study; anticipating patterns; and statistical inference. Upon successful completion of the AP examination at the end of the course, some institutions might offer full credit for the first semester of Statistics. Summer work is required for this course. Because of the demanding nature of this course, it should only be attempted by students that are highly motivated and ready for such work. Students are advised to consult their parents, teachers, and school counselors before selecting any AP course. Students will have the option of taking the AP exam for college credit at the end of the course at their own expense.

### **Prerequisite(s):**

- Earn a minimum grade of a B+ in an Algebra II course; or
- Earn a minimum grade of a B+ in Statistics and Probability

### **Measurable objectives to be attained by students:**

Specific objectives for this course are aligned to the College Board Course Skills and Course Content for AP Statistics.

### **Instructional Strategies:**

Social Studies demands the use of a variety of instructional strategies. Below is a list of suggested strategies for high-quality instruction:

- Instructional components outlined in the *Framework for Teaching* by Charlotte Danielson
- Use Concrete Representational Abstract (CRA) representations
- Promote productive struggle
- Promote mathematical discourse
- Use precise mathematical language

**Estimated Instructional Time:**

77 minutes per day for 3 days on a 6 day cycle (alternating A/B Block Schedule)

**Forms of Assessment:**

- Curriculum-based measures
- Benchmark Assessments
- Formative Assessments
- Summative Assessments

**Resources:****Student Text Resources:**

Starnes, Daren S. and Josh Tabor. *The Practice of Statistics, 6<sup>th</sup> Edition. 2020*

**Teacher Resources:**

Starnes, Daren S. and Josh Tabor. *Teachers Edition: The Practice of Statistics, 6<sup>th</sup> Edition. 2020*

**Technology:**

District approved supplemental technology

**Other Resources:**

Teacher created materials

District approved supplemental resources