

# Hahnville High School

## Advance Placement Program

### AP Statistics



#### *Recommendations for course:*

- Students should score a 90 or higher in Advanced Math I GT to be successful in AB Calculus and at least a 95 for BC Calculus
- Purchase a TI 84 or TI-Inspire Graphing Calculator
- Purchase a Barron's AP Calculus Study Book (13th edition or higher)

## About the class....

This course is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience in methods and applications with and without technology. The course emphasizes a multi-representational approach to calculus, with concepts, results, problems, and connections being expressed graphically, numerically, analytically, and verbally. There are three main conceptual themes in this course:

1. Functions, Graphs, and Limits
2. Derivatives
3. Integrals

The mathematical concepts are rigorous in nature and require perseverance and determination to master.

\*BC Calculus is equivalent to Calculus II at the collegiate level and is offered to those students who are exceptional mathematicians. BC students will learn the same material as AB students, but will also have several more topics infused within the curriculum, such as

3. Parametric and Polar Functions
4. More Advanced Integration Techniques
5. Sequences and Series

## Homework/Classwork

Homework Expectations:

30 minutes to 2 hours of homework each night

Sometimes Graded (advanced notice is given)

Most Project work will be done outside of class

Classwork consists of discussion and problem solving practice.

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### AP Statistics



#### *Recommendations for course:*

- Students should have earned a B or higher in Algebra II.
- Purchase your own Graphing Calculator:

TI-84 or TI-Inspire

## About the class....

Students will be introduced to the four major concepts of statistics: 1) Exploring Data, 2) Sampling and Experimentation, 3) Anticipating Patterns, and 4) Statistical Inference; as well as the tools for collecting, analyzing, and drawing conclusions from data. The course will teach students how to effectively communicate results and interpretations using correct methods and vocabulary.

Students will be required to read the chapter before coming to class in order to be familiar with the terms and concepts presented. Students will complete selected exercises at the end of each chapter for assignments as well as complete various activities throughout each unit.

Students will be required to use proper terminology, context, and notation on all assignments, quizzes, tests, exams, and during class discussions. Students will be expected to use a TI-83/83+ or TI-84+. Students will also use *Barron's AP Statistics Workbook* throughout the year.

## Homework/Classwork

Homework Expectations:

- 30 min to 1 hour per night
- 85% of Project Based Assessments will be completed outside of class
- Sometimes graded

Classwork Expectations:

- Consists largely of discussion and written analysis.