

## AP Statistics

### **Description:**

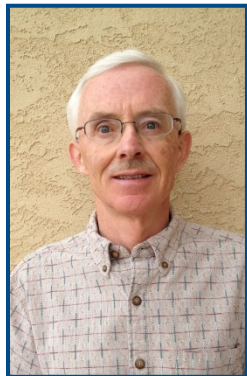
This two-day workshop for non-AP and AP teachers will provide an overview of the current AP Statistics course and exam. The workshop will focus on the following topics:

1. Developing a simulation-based Introduction/Big Picture Question for your class
2. Use of the “Rule of Four” in AP Statistics and throughout your mathematics classes
3. Teaching/developing the “Five Basic Laws of Probability” using two-way tables and tree diagrams
4. Question #6 – The Investigative Task, what is the intent and how it has evolved since the course started

Time will be devoted to developing strategies for teaching students how to solve open-ended problems. Ideas and concepts discussed and shared in this workshop will be useful to teachers in any mathematics classroom. Following each session, teachers will discuss and grade AP Questions dealing with the current topic.

Participants will also learn strategies for developing a course syllabus and an individual planning and pacing guide, as well as tips for navigating the AP Course Audit.

Participants will receive a USB thumb drive with necessary handouts, plans, and resources.



### **Presenter:**

**Dennis Williams** has taught mathematics for the past 30 years in Colorado and New Mexico. For the last 27 years he has taught with the Farmington School District, located in the Four Corners region of northwestern New Mexico. He was the Mathematics Department Chair at Piedra Vista High School in Farmington, the last 15 years teaching AP Statistics, AP Calculus AB and BC up until his retirement in June 2013. Currently he is a consultant with the College Board and the National Math and Science Initiative mentoring AP Statistics and AP Calculus teachers.

Dennis has been involved with the College Board since the conception of the AP Statistics course in 1997 and has taught AP Statistics Summer Institutes (new and experienced teachers) for the last 17 years. He has also taught/presented various conferences emphasizing AP Statistics, AP Calculus AB/BC, Vertical Team Building, Problem Solving in Mathematics and Pre-AP Mathematics Middle/High School for the last 17 years.

He is a member of the American Statistical Association, Mathematical Association of America, and the National Council of Teachers of Mathematics.