



# Probability & Statistics

Spring 2015 Course Syllabus

## Deer Valley Unified School District

BOULDER CREEK HIGH SCHOOL  
40404 N. Gavilan Peak Parkway ☐ (623) 445-8600 ☐ Fax: (623) 445-8680 ☐ [bchs.dvUSD.org](http://bchs.dvUSD.org)

**Teacher:** Mr. Stephen Coots  
**Room #:** 535

**Phone & Voice Mail:** 623-445-8777  
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**Website:** <http://www.mrcootsmath.com>

**Course Objectives:** By the end of this class, the student will be able to...

- Identify and apply concepts related to surveys, population, samples, methods, bias, etc.
- Differentiate between types of data generated from statistical surveys.
- Model categorical and quantitative data in graphical form; constructing bar graphs, pie charts, histograms, frequency tables, dot plots, stem-and-leaf plots, etc. (descriptive statistics).
- Calculate measures of central tendency for real-life sets of numerical values, drawing conclusions from the results.
- Explain and calculate dispersion of data; calculate standard deviation and solve problems with normal distribution.
- Perform linear regression analysis, understanding correlation and contingency concepts.
- Understand and apply conditional probability, randomness, and probability distributions.

All math courses are designed to meet the requirements of the Deer Valley Mathematics Curriculum, Arizona State Standards and National Council of Teachers of Mathematics standards.

**Required Calculator:** Each student is responsible for obtaining their own **TI-83 or 84 Plus graphing calculator** for daily use. Around \$99 used, \$50 used, or can be rented at [www.mycalcrental.com/](http://www.mycalcrental.com/)

**Textbook:** The course textbook, *STATISTICS* (2<sup>nd</sup> Edition, Agresti & Franklin), can be checked out from school bookstore for personal reference. It will not be directly used or referenced during class, as students will receive guided notes and practice problems for each lesson.

**General Class Rules & Behavior Expectations:** My classroom is a classroom of PRIDE built on the BCHS *JagNation* behavior consequences and reinforcement system.

Come	<b>Prepared</b>	Enter class with a good attitude, homework ready, & non-permitted items put away.
Be	<b>Respectful</b>	Exemplify respect to the teacher, classmates, & staff, as well as school property.
Model	<b>Integrity</b>	Engage in your own work with excellence, following all rules and expectations.
Act with	<b>Discipline</b>	Exercise responsibility, taking care of your needs & using quality speech/actions.
Show	<b>Everyone United</b>	Encourage, support, and build up others, with a cooperative and collaborative spirit.

### Grading Category Weights:

Tests & Quizzes / Assessments	65%
Assignments / Activities / Projects	15%
Final Exam	20%

### Grading Scale:

A	90% to 100%
B	80% to 89.9%
C	70% to 79.9%
D	60% to 69.9%
F	59.9% and below

## ESSENTIAL NINE - Specific Expectations

# 9 Essential

### COMING & GOING

- Enter class appropriately (quietly and controlled), take your assigned seat, get out necessary work, and start warm-up.
- Restroom use permitted during non-instructional time only with passbook; no dropping bag off before class (once you're in you're in)
- Everyone seated, things put away, and trash picked up before dismissal.

### PERSONAL ITEMS

- Hats, hoods, beanies OFF, food and drink PUT AWAY, before walking through classroom door.
- Backpacks, bags, purses on the floor at all times, not your lap.
- Headphones and electronic devices used appropriately and responsibly.

### DURING CLASS

- Eliminate disruptions, by remaining quiet during teacher-lead time, whenever talking is not needed.
- Respect others, do not bully, intimidate, antagonize, egg-on, talk about, or make fun of, your classmates, the teacher, or other staff members.
- Be responsible for your learning, completing individual and group assignments to the best of your ability.

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**Consequences:** The classroom behavior plan works as a 3 step intervention process for minor offenses following the JagNation PRIDE model at Boulder Creek High School. The first incident of a minor offense will result in the teacher reminding the student of expectations and documenting the behavior. The student will complete a reflection on the behavior. This is their chance to take responsibility and work to change the behavior. On the second incident, in addition to a reflection, the parent/guardian will be contacted by phone or e-mail. The third time, the student will have the chance to reflect, a referral will be written and the parent/guardian will be contacted again, by Mr. Coats as well a school administrator.

#### 1. Student Reflection

Documented  
Review Expectation



#### 2. Parent Contact

Student Reflection  
Documented  
Review Expectation



#### 3. Referral to Administration

Parent Contact  
Student Reflection  
Documented  
Review Expectation

Refusal to complete the student reflection or comply with other reasonable requests, will be considered insubordination and will immediately be treated as a major offense. All major offenses lead directly to the student being removed from the classroom and a referral being processed.

My goal is not to be a behavior punisher, but rather a behavior changer. I want students to be responsible for their actions and make better choices regarding attitudes, words, and conduct in my class, so that they will become better young men and women, mature and prepared for future careers and life.

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**Supplemental Videos:** Short video clips (both educational and television/entertainment based) will be used throughout the school year to support or introduce concepts, activities, and projects. These video clips will be limited to 20 minutes or less and will have a rating of TV-G or TV-PG. By signing the syllabus, the parent/guardian indicates their student has permission to view supplemental video clips in class.

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**Adherence to the Boulder Creek Academic Integrity Code:** All students enrolled in this class, will adhere to the framework and guidelines set forth in the Boulder Creek High School Academic Integrity Code. Cheating and Plagiarism will not be tolerated. The purpose of this code is to promote a positive learning environment for all involved. As humans, we will make mistakes as we grow. It is understood that we can learn from those mistakes and become better individuals in the future. Any student who violates this code will be referred to the Students Rights and Responsibilities handbook and assignment of appropriate consequences. *Please refer to the Academic Integrity Code in your student handbook for more details.*

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**Attendance:** Upon reaching any combination of 12 **excused or unexcused absences**, a student may lose credit in this class.

**Make-up & Missing Work Policy:** Make-ups are permitted for any absences and must be arranged the first day back. Students have one day per day missed to make up assignments for an absence. When students miss class, their work will be saved for them. They must make sure to pick it up from Mr. Coots at the beginning of class.

Late work and quiz corrections must be turned in before the end of each unit in order to receive credit. Extra copies of assignments are accessible to all students in the class binder. Once extra copies run out, material will not be reprinted. Students are responsible for keeping track of work once it is given to them.

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**Retakes:** Students may retake any quiz as many times as they would like to for a grade up to 75%. Retakes must be done before or after-school when teacher is available. Opportunities will be given for in-class retakes occasionally. Students may retake one major unit test per semester for full-credit earned.

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**Technology Use:** Unauthorized use of hardware or software, damage to technology equipment, or theft will result in disciplinary action. Students are responsible to protect their passwords and may not allow others to use their password.

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**PowerSchool Access:** The PowerSchool site allows you and your parent/guardian to access your grades, attendance, and other information. I typically have all grades recorded and update by Friday evening. You can also e-mail me for a detailed progress report at any time. <http://ps.dvusd.org/public/>

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### **Student & Parent/Guardian,**

I look forward to working with you this semester and watching you grow in your mathematical skills and as an individual. I know you will be successful! Remember that I am here to help you at any time with anything! Please ask if you have any questions about the above information.

Throughout the semester, please contact the teacher for any student concerns. It is crucial that teachers, parents, and students maintain open lines of communication. Detailed contact information is provided at the top of the first page. However, e-mail is the best way to reach me during the school day. To reach me by phone, please leave a message and I'll get back to you as soon as I can.

Sincerely,

The Deer Valley Unified School District does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. For any inquiries regarding nondiscrimination policies contact the Superintendent's Department, 20402 N. 15th Avenue, Phoenix, AZ 85027. 623.445.5000.