Class Title: Red Probability and Statistics

Teacher Name: Rebecca Healy

Class Day: Friday

Class Size: 10

Class Supply Fee: $52

Class Fee: $96

Ages or color group served: Red

What level is this class: Level 3

Prerequisites: Students must have a basic knowledge of Algebra. Example students need to be able to solve for the unknown, 3+x=10. Students will be allowed to use calculators in the classroom. If you have any questions about your students current level, please email enrollment@hcuacademy.com

Graduation Requirements: Students must follow attendance policy. All assignments must be completed and students must pass the final assessment.

Homework Requirements: Students should be prepared to spend 1 to 2 hours on homework or independent study during the week. Students will have a mid-week check-in. Students will need to have homework completed and turned in by Tuesday at 5pm each week. This ensures that each student is grasping the concept in time to move on for the next class. If there are issues or questions students should be prepared to be available for a virtual follow up Wednesday or Thursday at your convenience for clarification before the following class.

Class Description:
Probability and statistics will include creative, comprehensive and clear instruction. We will cover probability, two way tables, permutations, combinations, measures of variation, and normal distribution. I will be teaching through warm-ups, videos, assessments, and applications that will help students understand probability and statistics. My teaching style includes hands-on learning experiences with a group project as well as appealing to the visual and auditory learner through other techniques. We will make math FUN!

Week 1:
Introductions - expectations

Week 2:
Basic probability

Week 3:
Compound probability

Week 4:
Two way Tables

Week 5:
Mutually exclusive

Week 6:
Counting principles and permutations

Week 7:
Counting principles, permutations, and combinations

Week 8:
Combinations and binomial theorem

Present to students: Theoretical, and Experimental Probability Project

Week 9:
Measures of center and variation

Project Teams: work in class

Week 10:
Frequency and normal distribution

Present projects by teams

Week 11:
Z scores and I standard normal distribution

Present projects by teams

Week 12:
Final assessment - class party