**Vashon High School Probability and Statistics Syllabus**



Welcome to Ms. Hurd Probability and Statistics Class!

**Course Description:** This course is a practical hands-on approach to the study of statistics and probability. The topics include the use of graphs such as histograms, stem plots, time plots, and scatter plots to display data, using numbers such as median, mean, and standard deviation to describe data, and evaluating data distribution. Students examine relationships using correlations and least square regressions. They calculate the probability of simple and compound events. They learn to estimate with confidence as well as to explore tests of significance, and to evaluate the validity of statistics contained within published reports.

**Probability and Statistics Course Outline:**

Topic 1: Introduction to Statistics

Topic 2: Exploring Data with Tables and Graphs

Topic 3: Describing, Exploring, and Comparing Data

Topic 4: Probability

Topic 5: Discrete Probability

Topic 6: Normal Probability

Topic 7: Estimating Parameters and Determining Sample Sizes

Topic 8: Hypothesis Testing

Topic 9: Inferences from Two Samples

Topic 10: Correlation and Regression

Topic 11: Goodness-of-Fit and Contingency Tables

Topic 12: Analysis of Variance

Topic 13: Nonparametric Tests

Topic 14: Statistical Process Control

**Probability and Statistics Course Techonolgy Policies and Procedures for virtual learning:**

* Communication is key to our success in virtual learning. If there is an issue, please let us know. Email is the best form of communication
* Students should not be in any one-on-one video or phone conferences with adults; please include another teacher or an administrator if you are requesting a virtual meeting of some sort.
* Students must be appropriately and fully dressed when participating in synchronous learning session (TEAMS, Zoom meeting, etc.). NO Pajamas or tank tops.
* Students should be in a common area of the home during any synchronous learning session, NEVER in a bedroom or other private home space. Find a quiet place, free from distraction (sibling, pets, parents, televisions)
* Video needs to remain ON to promote focus and for attendance purpose unless told otherwise by teacher. Mics should remain MUTED unless asking or answering questions.
* No eating while participating in synchronous learning.
* Students should be present and on time to synchronous every day. All synchronous learning video will be record. If you are absent or tardy it is up to you to watch the record synchronous learning videos.

**Student Expectations**

In order to be successful in this class, you must master the 5 R’s of the classroom:

* RESPECTFUL – I respect my teacher, my classmates, my classroom and myself.
* Responsible – I take control of my learning and try to do what is best for others and myself.
* Resilient – I never give up or let my feelings get in the way of learning new things.
* Reflective – I review what I have done and take pride in making it better.
* Ready – I am prepared and excited to learn. I want to learn, and I always give my best effort!

**2020-2021 Virtual Learning Bell Schedule**

**Teacher sign on: 8:00 am**

* **1st & 5th Periods 8:15 am - 9:45 am**
* 8:15-9:00 am – Synchronous Instruction
* 9:00-9:45 am – Asynchronous Instruction
* **Technology Break 9:45 am – 9:55 am**
* **2nd & 6th Period 9:55 am -11:25 am**
* 9:55-10:40 am – Synchronous Instruction
* 10:40 - 11:25 am – Asynchronous Instruction
* **Lunch 11:25 am – 11:55 am**
* **3rd & 7th Period 11:55 am - 1:25 pm**
* 11:55 am -12:40 pm – Synchronous Instruction
* 12:40 -1:25 pm – Asynchronous Instruction
* **Technology Break 1:25 pm - 1:35 pm**
* **4th & 8th Period 1:35 pm - 3:12 pm**
* 1:35 - 2:20 pm – Synchronous Instruction
* 2:20 - 3:12 pm – Asynchronous Instruction

 **Teacher Sign off: 3:22 pm**

**Communication:** All parents with Internet access available will have the ability to monitor progress and check student grades and missing assignments at any time (24 hours a day, 7 days a week) using SIS. The school will provide you with a username and password in order to access grades and monitor progress. Contact me (via email) if you have specific questions or concerns about student progress.

**Algebra 1 Grading Policies:** Grades will be calculated using the following system.

Virtual Assignments (Do Nows, Practice work, Exit Slips) 25%

Homework 25%

Quiz 25%

Tests 25%

\*\*\*I DO NOT offer “extra credit”. Complete the regular credit assignments, and you won’t NEED extra credit!

**Majority of practice work, quiz, and test will be done on MyMathLab** <https://www.pearsonmylabandmastering.com/northamerica/mymathlab/>

**Grading Scale:**

**Teacher Contact Information**

 Ms Hurd

Email: Natasha.hurd@slps.org

90-100% = A

80-89% = B

70-79% = C

60-69% = D

0-59% = F

**Some helpful websites to use include:**

<http://www.bigideasmath.com/students/>

 <http://mathforum.org/students>

 <http://www.aaamath.com>

 <http://www.brainpop.com/math>

 <http://www.coolmath.com>

 <http://www.math.com>

 <http://www.mathdl.org/mathDL/>

<https://www.desmos.com/>

I look forward to a great year!!! Please let me know if there is anything that I can help with, or for any

questions that you have. Contact me: Natasha.hurd@slps.org

both student and parent/guardian must sign to show that you have read the syllabus.

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Student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Parent \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Anything you would like me to know about your child: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Please put the best way to contact parent/guardian \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_