

Brunswick School Department

School: BHS

Department: Math

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AP Statistics - 2020-21 - Grade Level: 11-12

Course Description

This course will explore statistical methods used to gather, organize, describe, analyze and draw conclusions from data. It is for students who wish to complete the equivalent of a one-semester, introductory statistics, non-calculus-based college course. A TI-84 graphing calculator (or better) is required. There are calculators available for loan at the BHS library. A summer assignment is required (maximum of 10 hours)

Academic Standards

- The course will follow the standards established by USM for MAT120 (4 credit college-level statistics course)
- AP Curriculum - Due to the reduced class time, this course will NOT cover all AP Statistics Units. Chi-Square (TPS Chapter 11) and Linear Regression Inference (TPS Chapter 12) will NOT be covered in this year's curriculum. I will provide resources for students who take the AP Statistics exam to independently prepare for it.

Maine Guiding Principles Click [HERE](#) to access PDF with these principals.

Student Learning Outcome are posted on my website:

<http://www.brunswick.k12.me.us/pgroves/files/2020/07/2020-2021-AP-Statistics-Syllabus.pdf>

Resources

Textbooks – The Practice of Statistics (abbreviated TPS4e)

- Please keep book covered (they are expensive to replace) and keep at home (save your back)

My Website – For more information see my website which includes completed guided notes, solutions to problems, as well as the traditional syllabus, student guidelines, chapter assignments sheets used in past years. The specific link for AP Statistics -

<http://www.brunswick.k12.me.us/pgroves/home/ap-statistics/>

Materials Supplies to bring to class –

- Headphones and personal computer device
- Several sharpen pencils with erasers, pens, and highlighters
- TI84 graphing calculator
- Math binder. A 1½-inch three-ring binder with 3-hole loose-leaf paper (dividers optional)

Student Expectations in Class (Virtual & In-Person)

This year I am adapting a **Flipped Classroom** because **in-class time will be precious** and my goal is to use this time to ensure students understand concepts and to develop relationships. A **Flipped Classroom** is an approach where students (1) **explore new course content outside of class** (i.e. take notes, read, watch videos and do some practice problems) **at student's own pace**. (2) Then **in-class time is focused on student engagement**, answer questions, apply and elaborate on course concepts. I will use in-class sessions that are collaborative group work and use of active learning strategies, including problem sets, case studies, or structured discussion

Class time – will be discussion-based to answer questions, do group work, and foster relationships.

- **Remote student expectations** – So I can engage with remote students and integrate them into the class, they will be asked to have **video on** and **audio muted**. They can use the chat to ask questions and I will call on them.
- Sessions will NOT be recorded.
- Classwork will be collected and submitted to Google Classroom in PDF form.
- **Students that are late or miss class will be responsible** for working with their IP Team or meet with me during Office Hours to get caught up.

Independent Practice (IP) – Expect about 40 minutes/day for on-weeks; and about 60 minutes for off-week. These times also include team meetings and participation in discussion boards.

- **IP** – will be (1) **pre-work** assignments (I will create videos for students to complete guided notes that will be collected in Google Classroom); (2) **engagement in-class**, (3) **IP Team discussions**, and (4) **participation in** Google Classroom Discussion Boards (**DBs**).
- **Late IP** – will receive a 20 point per class late penalty
- **IP Teams** – The concept is to set up Teams monthly with students from each group (1-4) to facilitate different students working together to help each other with IP and discuss concepts covered. Teams will be expected to meet at least 30 minutes per week with a rotating team leader (ABC order). The leader will post team questions/learnings to the Google Classroom discussion board.
- **Google Classroom Discussion Board (DB)** – To facilitate group discussion, I am creating a discussion board in Google Classroom.
 - The IP Team leader will post questions/learnings.
 - Then students will be asked to engage in the DB with a minimum of 1-2 comprehensive responses.

Student Expectations in Class (Virtual & In-Person) CONTINUED

Asynchronous time (Thursday's) – Expect about 40 minutes of IP or an Assessment.

Assessments – will be short (about 45 minutes) and occur more frequently. Assessments will be open-notes with a time limit.

- They will be scheduled during Asynchronous (TH) times.
 - a. My plan is to schedule them during the assigned synchronous time slot or 1-2pm. Students will be responsible for contacting me 24 hours in advance if they will have a conflict.
- Assessment will be posted in Google Classroom with a Google Meets link. When students take assessments, they will also be signed into a Google Meets with their video on and audio muted. They will be able to ask clarification questions in the chat.
- Assessments will be announced in Google Classroom on Mondays.

CDC requirements – masks at all times, maintain 3-6ft distance, & wipe down desks/touch areas before leaving the classroom. **My classroom flow will be counterclockwise** (enter on the right side, pick up your papers, and fill the seats starting on the opposite side of the room.)

Attendance will be taken – required for all synchronous classes. See BHS attendance policy.

Work Submission

Google Classroom – All assignments and assessments will be posted and collected here.

- **Work MUST be turned in PDF form.** There are several phone apps to create PDFs (Genius Scan, CamScanner-PDF, etc.)

Grade Breakdown Independent Practice (IP) 10% vs Assessments 90%

PowerSchool – All grades will be posted here within 48 hours.

Communication

Communication – If parents (or students) have any questions, please email me. I will respond within 48-hours (M-F) between 8am-3pm. Let me know if you would like to set up a Google Meet or Zoom meeting with a few suggested times between 8 am-11:30 am (M-F).

Extra Help – M-Tu.-W-F 1pm-2pm. Please email me to set up a Google Meets session.

Stay safe and happy, Paula Groves (pgroves@brunswicksd.org)