



The Facing History School

Statistics Syllabus

Grade 12

Teachers: Jeffrey Marrero

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Course Overview

The purpose of Statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. Exploring Data: Describing patterns and departures from patterns
2. Sampling and Experimentation: Planning and conducting a study
3. Anticipating Patterns: Exploring random phenomena using probability and simulation
4. Statistical Inference: Estimating population parameters and testing hypotheses

Curriculum

Everything that will be covered in this course can be found in the Scope and sequence for the course by clicking [here](#)

This includes:

- Essential Question
- I can statements
- Common core standards
- Pacing

Resources:

United States Statistical Abstract; During this course students will use the United States Statistical Abstract enhance the development of statistical understanding through exploring data and analyzing data.

http://www.census.gov/library/publications/time-series/statistical_abstracts.html

Ti-84 Plus Graphing calculator; students will routinely use calculators to enhance development of statistical understanding , and perform simulation. (Purchasing a graphing calculator is not required but strongly encouraged)

Computers; Students will routinely use computers to further explore and develop statistical understandings.

The Statistical Lab; Students will use this free software to enhance the development of statistical understanding through exploring data, assessing models,analyzing data and or performing simulations. The software can be downloaded at

<http://www.statistiklabor.de/en/Download/index.html>

Investigative tasks

Investigative tasks are also a major part of the course. Students complete multiple tasks per unit. These tasks will be completed during class time, however, students may need to complete the task outside of class to meet required deadlines. These projects require students to design surveys and experiments, gather data, analyze the data numerically and graphically, and apply inferential statistics to draw conclusions for a population. Students write formal reports on their projects reporting methods, results, and interpretations using proper statistical vocabulary.

Mathematics Performance Based Task Assessment (PBAT)

As a culminating project students will complete the Mathematics Performance Based Assessment Task (PBAT). Each student Choose at social topic (i.e. poverty, racism, gun violence, homelessness etc.) Students must develop and

conduct a statistical study, and then use the data collected to make sound connections and judgments between the design and the results of the experiment. Students will also be expected to analyze the collected data and related data found on the *United States Statistical Abstract*, complete a full statistical analysis, make inferences, include statistical graphics and communicate methods, results and interpretations using the vocabulary of statistics. Students complete a written portion including methods and justifications for decisions. Findings will be presented to a panel of teachers that will engage in a detailed discussion of the issue. Students must defend statistical decisions made and their analysis of the data collected.

Classroom Rules

- 1.) Arrive early or on time.
- 2.) Do not talk when someone else is talking.
- 3.) Come prepared with required classroom materials.
- 4.) Stay on task

If you break a classroom rule, here is the order of what will happen:

- 1.) Redirect

What this sounds like: *"John, I love your enthusiasm but remember to raise your to participate instead of calling out, so we give everyone a chance to think of an answer."*

- 2.) Verbal Warning (can happen publicly or one-on-one)

What this sounds like: *"John, when you call out, it disrupts other people from coming to their own answer or conclusions. This is your warning about calling out."*

- 3.) request an action from you.

What this sounds like: *"John, your classmate was called on but couldn't answer because you called out the answer. Can you please apologize to him either now or sometime before class dismisses? Thanks!"*

- 4.) One-on-one conversation (either quietly in the classroom or out in the hallway)

What this sounds like: *"John, come talk with me in the hallway."* <Then we have a conversation about calling out in the hallway.>

- 5.) Call home and/or sent to Courtney or admin office.

What this sounds like: *"John, today is just not your day. I need you to take your stuff and this pass and head to the admin office. I'll pop in after class to talk with you."*

Cell Phones

Cell phones will be collected at the start of class and returned to you at the end of class.

If you choose to keep your cell phone and is it out during class your phone will be collected and given to admin.

Uniform (Hats, hoodies, and collared shirts, especially)

You are expected to follow the school uniform policy in this class.

If your shirt or pants are out of uniform, (for example, your shirt does not have a collar), you will be sent to the admin offices to receive an appropriate uniform then return to class in appropriate uniform.

Headphones

Headphones should not be visible on your body. Headphones are not allowed in your ears, draped around your ears, and all the other possible ways to wear headphones. Sometimes you'll be allowed to listen to music when you work, but you will be given permission to do so.

I will either keep it until:

- a.) the end of the class period then give it back to you before you leave
- b.) the end of the day then give it back to you when you come get it from one of us at the end of the day

c.) turn the cell phone into the admin office/dean office.

If kept with us, your headphones will be clearly labeled and securely locked in a closet to ensure its safety.

Hallway Passes

If you come to class late, have a pass. Do not say, "The teacher did not give me a pass." It is your responsibility to ask the adult for a pass in order to enter our room late. If you do not have a pass, you will be marked as an unexcused tardy.

If you leave the classroom during class time, you will get a pass. **If I forget to give you a pass**, it is your responsibility to ask for one.

Absent to Class

Planned Absence = you know you are going to be absent (e.g. doctor's appointment)

For a planned absence, come inform us that you will be out in order for them to give you your missing work and fill you in on what you'll miss, so you do not fall behind!

Unplanned Absence = you are absent but did not anticipate or expect it (e.g. illness)

For an unplanned absence, like you wake up sick, feel free to text, call, or email so I know you will be out and can organize your work for when you return! This is not required but is a considerate, professional habit to get used to.

Regardless if your absence is planned or unplanned, **IT IS YOUR RESPONSIBILITY to come receive the work you missed that day in order to catch up**. Additionally, if you want one-on-one tutoring, teaching, etc. due to an absence, please set up an appointment for before school, during lunch, or after school.

Harmful, Hurtful, Offensive Language

If you think words have been used to harm, hurt, or offend someone, please do not let it go. Do something:

a.) talk to Michael, so they can address it.

b.) respectfully address it in the moment→ Do not combat harmful, hurtful, or offensive language with MORE harmful, hurtful, and offensive language.

If I think a word is being used to harm, hurt, or offend, I will talk to the person. As members of this class, I will work really hard to not harm, hurt or offend other with our words and language choice because you all have a right to a safe and welcoming classroom environment.

****I know it is not feasible to create a space where harmful, hurtful, offensive words and language are not used because I are all human and make mistakes. However, I aim to create a classroom where I all work tirelessly and to the best of our ability to not harm, hurt, or offend others. If/when I do offend someone, I work to remedy that or if I am offended, I work to communicate with the person, who offended us, about the harmful, hurtful, or offensive language used in order for it to, hopefully, not be used again.****

Plagiarism (copying) & Cheating

- ★ Copying and pasting someone else's words from the Internet to your assignment or paper is plagiarism if you do not cite the author and where you got the information from.

- ★ Copying someone's ideas by putting the ideas in your own words is also plagiarism if you do not cite the author and where you got the information from.

- ★ Copying another student's work is plagiarism.

- ★ Cheating on an assignment, quiz, test, etc. is, well, cheating.

All of these acts are forbidden and consequences will be issued on a case-to-case basis by myself, and the admin team (Dana, Kristina, and/or Calee). Your parent and guardian will also be notified as well.

Food and Drinks

I do not mind if you eat or drink in our classroom as long as it is not a distraction to others around you. You must also pick up after yourself and leave the space free of spills and crumbs! *This is a rule that can easily be changed if I recognize that food/drinks are becoming a distraction or messes are being left in the classroom.*

Bathroom/Water Fountain Policy *School-wide Policy: No students can use the bathroom during the first 10 minutes of class or last 10 minutes of class.*

Nature calls! Only one person is allowed to be out of the classroom at a time. You must use the bathroom pass.

Gradebook

Teacher gradebooks must be updated each week on Tuesdays. I will probably do it more than that but, at minimum, the gradebook is updated once a week.

The gradebook is divided into three sections:

- ★ Learning Activities
3-5 grade learning activities will be entered each week = roughly 60 to 80 grades per semester

- ★ Formative Assessments
2-4 per unit = roughly 10 per semester

- ★ Summative Assessments
1-2 per unit = roughly 6 per semester

Office Hours

Thursdays and Fridays after school

OR

By appointment. *By appointment* means you come to us, I set up an agreed upon time to meet, and then you come in and I meet.

Teacher Contact Information

Michael

Cell phone: (607) 435-6827. *Feel free to text or call; however, please do not text or call after 8pm. Thanks!*

Email: michaelb@facinghistoryschool.org

Jeffrey

Cell Phone: (862) 371 -0768. As stated by Michael, please do not text or call after 8pm.

Email: jeffreym@facincghistoryschool.org