

## 1.1: Welcome to Statistics

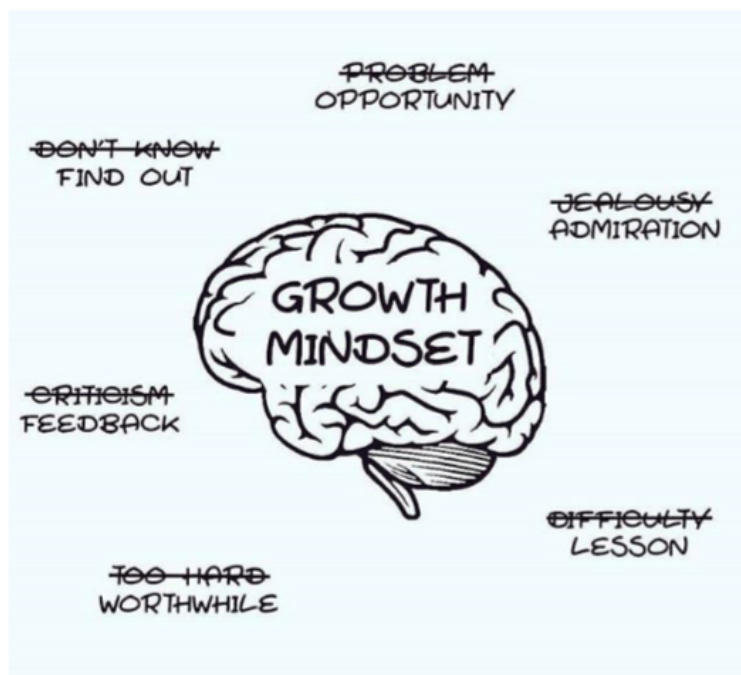
### Not your *average* stats class!

This class will be different in many ways from other math classes you might have taken in the past. You are going to interact with your classmates and your instructor quite a bit. You will talk to each other about statistics. You will be in groups with your classmates, and I expect that you will contribute to the discussion of the concepts you are learning. In this class, everyone will have a chance to share their viewpoint and we respond to whatever anyone says with respect. I expect that students in this class will support each other in working together.

In survey after survey of employers, teamwork skills (along with communication skills) are at the top of the list of attributes they would like to see more of in their new hires. We will develop these skills, among others, in this class.

### Growth mindset and neuroplasticity

We will adopt “hope theory” and “mindset thinking” to improve ourselves. As stated in this model, “hope can be thought of as the ‘will power’ to move toward action as well as the ‘way power’ or the pathway that will lead to goal achievement.” Many of you may be able to improve your success in mathematics by adopting a high hope/growth mindset in your own life, to take on challenges that might have previously seemed unattainable. During our class, we will learn about hope, growth mindset, and neuroplasticity, and we will practice applying it. We will also try to take an evidenced-based approach to learn about our learning. We will develop practical strategies for improving our growth mindset, dealing with stress and frustration, and goal setting.



"A growth mindset is needed for #4IR Shift the negative to positive 🌟💡 #entrepreneur #DigitalTransformation #startup #innovation #fintech #insurtech #thinkbigssundaywithmarsha Cc @Clagett @SpirosMargaris @kimgarst @psb\_dc @leimer @Paula\_Piccard @" by Paula Piccard is marked with CC0 1.0. To view the terms, visit <https://creativecommons.org/publicdo...?ref=openverse>.

## Materials

You will need a few materials to get set up for the class:

- A computer equipped with a microphone, a camera, and Google Chrome.
- Some mechanism for making a PDF document.
  - If you don't have a scanner, there are various apps you can use on your phone to scan documents and convert them into PDFs including CamScanner, and the Microsoft Outlook app (where you can add an image and select the document icon).
- I will provide you with text resources we will be using. It is recommended that you have a binder to store your printed/lecture notes, as well as a place to keep solved exercises.

## Getting set up with desmos

Desmos is a wonderful free calculator that has statistical capabilities. Not only can we be using desmos to do calculations, but we can also use their platform to engage in activities that help develop deep understanding of challenging mathematical concepts.

In order to utilize desmos to its fullest, you will need to create an account. This way, any progress you make in an activity will be saved. You can also access feedback that I leave for you when you have an account.

To create an account:

1. Go to [student.desmos.com](https://student.desmos.com) and enter the code \_\_\_\_\_
2. Click "create account"
3. Enter your email, your first AND last name (as it appears on the roster), and create a password. Make your password easy to remember so that you can easily sign in for activities in our class
4. Click the create account button

That's it! Now you are ready to complete any desmos activities.