

Torah Highschool : AP Statistics

Year: 2025-2026

Room: 306

Meeting Times: MW 1:10-1:55, 2:00-2:45 **Instructor:** Gisue Kharrati

Welcome to Statistics!

My name is Gisue Kharrati, and I am excited to start this new semester with you all and be part of your high school journey. This year, I want to teach the AP statistics and get you ready for your AP exam. I will do my very best to make sure that you are all successful if you meet me half-way!

I understand that math can be a scary subject but we can all overcome this fear with patience and guidance so I hope you can place your trust in me to help you go through this process.

Torah girls, you are important to me, and I hope that we can all learn together and exchange knowledge. I encourage you to ask questions, challenge yourself, and trust the process. One thing I ask of you is that to be successful when taking your AP exams, you need to attend the class and be ready to learn.

To the right you will find my contact information in case you ever need help with anything. Remember that I am here to help you but only if you allow me to do so.

CONTACT INFORMATION

Email: gkharrat@sdccd.edu

ZOOM: <https://sdccd-edu.zoom.us/my/longliveandprosper>

*Let's use the **Remind App** (8am-9pm please) so that you can text me your concerns by using this text app.*

<https://www.remind.com/join/torahap>

With this link we are connected through texting. Please use your full name when signing up.

REQUIRED MATERIALS

- Graphing Calculator



About me: Bio: Born in Tehran, Iran. Moved to the US in 1980. Got my BS from CSUF in Applied Math, and Masters in Math Education from SDSU. I have been teaching at Mesa College for the past 19 years. Married with one son. My son is a rising 2L at Georgetown Law School. My husband has been an electrical engineer doing both hardware and software for tech companies for the past 30+ years. Both my husband and I love math and use it daily. We don't know what happened to our son 🙏.

I love dancing, watching Korean dramas, hanging out with family and friends, traveling, and eating and making good food. I truly love my students and wish them happiness and prosperity. My wish is that by the end of this school year, you have learned a lot about AP Statistics, and you have gotten prepared for the AP Exam, and hopefully you had fun in the process.

Attendance:

It is extremely important that you attend the class. If you are interested in doing well on your AP exam, you need to attend the class. Every class period is important in you gathering knowledge. If you are absent, then you are responsible for missed work. It is up to you to catch up.

Academic Integrity:

Students are expected to be always honest and ethical in the pursuit of academic goals.

My job as an instructor is not just to teach you but also to oversee discipline and maintain the standards of learning and expectations. As a student,

- 1) **You must have supported work for all calculated answers.**
- 2) **If your supporting work matches work on any external website (Chegg, CourseHero, Symbolab, etc), you will receive a ZERO for the assignment**
- 3) **If your work is done a different way, you WILL be asked to explain thoroughly.**

If any of the above are shown to be the case, you will be questioned on your work and disciplinary action may be taken.

I am extremely strict on these regulations and by you staying in this class means that you adhere to these standards. This does not mean you cannot ask for help or have tutors. Just make sure you understand what you are doing.



About Stat:

Statistics deals with the collection, organization, analysis, interpretation, and presentation of data. I will be showing you not just how to do the steps but also interpret your results and have a thorough understanding of why we do certain things. I hope that I can inspire you on how statistics work in real life and hope that you can get a lot out of this class. You will see that statistics is more of a **science** course that uses mathematical techniques.

A grasp of algebra and arithmetic is necessary for this course. However, I will be teaching this course from a technological point of view since statistics is done with technology and not by hand in real life. I will be showing you the theory behind math as well, so you have a more holistic view (especially for my math and science people and anyone interested!).

Lectures:

I will lecture of course but there are videos I have made on every topic so that you can watch the lectures that you either have missed or didn't understand. They are available on each module.

I teach stats in a very modern way, so I want solutions done the way I teach it.

Grades Breakdown:

Homework (20%)	Homework is assigned from different platforms, it is on the Module tab of your Canvas class.
Quizzes (10%)	There will be quizzes associated with each chapter. Since you have to take the AP exam in May, the idea of timed work is a good thing. You need to learn not to get stressed out when you see the clock running down. So this is a good thing!
Classwork (20%)	There will be lots of worksheets that I will give you with interesting and applicable topics, for each class period. These daily work, will be done in class. To get credit, you need to show up to class; otherwise, you miss the points associated with that day's work.
Tests (50%)	I will test you at the end of each chapter.

I don't typically accept late work so take advantage of the multiple dropped assignments. However, I am flexible if something happens!

Canvas Access:

You will all have access to Canvas on the first day of class and it is where everything will take place. There, you will be able to access all the resources, including lecture notes. Quizzes and homework will be submitted in Canvas. Your grades can also be accessed on Canvas. Please keep track of your grade and if you note any errors, please let me know.

Calculator:

Graphing Calculator is a must since that's what is allowed on the AP Exam.

Optional Textbook:

No textbook but there are a couple online pdf versions available on Canvas if you want one for reference.

Grades will be based on the following percentage scale:

- A (90-100)
- B (80-89.9)
- C (70-79.9)
- D (60-69.9)
- F (0-59.9)

*****I do NOT curve grades. There will be an extra credit assignment at the end of the semester that can help you boost your grade by 1% just in case you land close to a letter grade.*****

Need help?

There are plenty of resources across campus to seek help!

1). Me! You are always welcomed into my office or you can text me on the Remind. This



2). Form study groups with your classmates. There will be plenty of opportunities to work together through discussion boards. Some of you have known each other in previous courses so feel free to collaborate.



Course Description:

This course covers descriptive and inferential statistics. The descriptive portion analyzes data through graphs, measures of central tendency and dispersion. The inferential statistics portion covers statistical rules to compute basic probability, including binomial, normal, Chi-squares, and T-distributions. This course also covers estimation of population parameters, hypothesis testing, linear regression, correlation, and ANOVA. Emphasis is placed on applications of technology, using software packages, for statistical analysis and interpretation of statistical values based on data from disciplines including business, social sciences, psychology, life science, health science and education. This course is intended for transfer students interested in statistical analysis.

Upon successful completion of Statistics:

1. Organize qualitative and quantitative data into meaningful charts and graphs.
2. Evaluate measures of location, central tendency and variation of data and probability distribution.
3. Analyze data by implementing various scales of measurements and formalize results based on statistical procedures.
4. Evaluate probabilities using a variety of computational methods.
5. Analyze various discrete and continuous probability density functions, and use these to generate cumulative probability distribution functions, emphasizing the expected value and variance of the corresponding random variables.
6. Apply the appropriate probability distribution functions including the binomial, the normal, the Chi-Squared and the t-distributions, to calculate probabilities of random variable values in prescribed ranges.

7. Identify the standard methods of obtaining data and identify advantages and disadvantages of each.
8. Apply the Central Limit Theorem to sampling distributions.
9. Calculate confidence intervals using test statistics to determine the level of significance of the mean, the variance, and the sample proportion.
10. Formulate hypothesis tests discussing the differences between Type I and Type II errors.
11. Perform hypothesis tests for various random variables including means, one and two-sample proportions, and variance.
12. Evaluate correlation to determine the corresponding linear regression between two sets of data.
13. Apply ANOVA analysis of estimation and inference, and interpret corresponding statistics.

**Torah High's AP Statistics
(8/27/2025 through 6/15)
Tentative Schedule for 2025-2026**

Monday 1:10-2:45	WEDNESDAY 1:10-2:45		
8/25	8/27	8/29	
Labor day Closed	9/3	09/5	
9/8	9/10	09/12	
09/15	9/17	09/19	
09/22 School Closed	9/24 School Closed	09/26	

9/29	10/1 School Closed	10/3 School Closed	
10/6 School Closed	10/8 School Closed	10/10 School Closed	
10/13 School Closed	10/15 School Closed	10/17 School Closed	
10/20	10/22	10/24	
10/27	10/29	10/31	
11/3	11/5	11/7	
11/10	11/12	11/14	
11/17	11/19	11/21	
11/24	11/26 (1/2 day)	11/28 (closed) Thanksgiving Day	
12/1	12/3	12/5	
12/8	12/10	12/12	
12/15	12/17	12/19 School closed	

12/22 School closed	12/24 School closed	12/26 School closed	
12/29 School Closed	12/31 School Closed	01/02 School Closed	
1/5	1/7	1/9	
1/12	1/14	1/16	
1/19 School Closed	1/21 Midterms	1/23 Midterms	
1/26	1/28	1/30	
2/2 (to be announced)	2/4	2/6	
2/9	2/11	2/13	
2/16 School Closed	2/18	2/20	
2/23	2/25	2/27	
3/2 (1/2 day)	3/4	3/6	
3/9	3/11	3/13	
3/16	3/18	3/20	
3/23	3/25	3/27	
3/30 School Closed	4/1 School Closed	4/3 School Closed	
4/6 ?	4/8 School Closed	4/10 School Closed	

4/13	4/15	4/17	
4/20	4/22?	4/24	
4/27	4/29	5/1	
5/4	5/6	5/8	
5/11	5/13	5/15	
5/18 ?	5/20	5/22 School Closed	
5/25 School Closed	5/27	5/29	
6/1	6/3	6/5	
6/8	6/10	6/13	
6/15 Graduation			