

# Course syllabus

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## Welcome to Math 10: Elementary Statistics Spring 2020

Welcome to Statistics! Statistics is an exciting and interesting subject. I hope you will enjoy learning the material in this course. Please read this syllabus in its entirety. Since this is an online learning class, you should strive to learn the material on your own. I am here to help so please message me ([Canvas InBox \(https://community.canvaslms.com/docs/DOC-10573-4212710324\)](#)) or post **Discussions** questions in Canvas if you need assistance. Plan to commit a **minimum of 15 hours per week** to this course – this is a very fast-moving course!

## Contact Information

**Instructor:** Dr Lisa Markus

The best way to contact me is **via the InBox in Canvas**. I will reply by the end of the next school day (School days are Monday – Friday). I am here to help so please use the InBox to contact me or post **Discussion** questions in Canvas if you need assistance.

Email: [markuslisa@fhda.edu \(mailto:markuslisa@fhda.edu\)](mailto:markuslisa@fhda.edu).

## Online Office Hour Monday 5:00pm - 6:15pm

I also have an in-person virtual **Office Hour: Monday 5:00pm - 6:15pm via ConferZoom (use the link on the left in Canvas)**. Please drop by virtually and ask questions! Please review the **Overview of ConferZoom (https://ccctechconnect.zendesk.com/hc/en-us/articles/360009517753-Overview-of-ConferZoom-in-Canvas)**. You do not have to use video - there is audio-only, and there is a Chat window available in Zoom. If you prefer a lower-tech (lower-bandwidth) option, use the Canvas InBox to ask questions, or the weekly **Discussions** to ask questions, and you will get a response almost immediately during my office hour, and a response within one school day at any other time!

## Attendance Policy

Attendance is **required** via actively participating online. I will drop any student who has not logged onto the Canvas course and taken the Orientation Quiz by **11:55 pm on FRIDAY 17 April**. If you fail to complete assignments 2 weeks in a row, I **may** drop you from the course, however, students are responsible TO DROP OR WITHDRAW if they so need. It is also the student's responsibility to check [http://www.deanza.edu/calendar/ \(http://www.deanza.edu/calendar/\)](http://www.deanza.edu/calendar/) for the De Anza College deadlines. The course-specific dates are in MyPortal.

## Very Important Dates

Exams are online on the following dates. On each of these days, the exam will be available from 11:00am to 11:00pm PDT (the time in Cupertino, CA). All exams are timed, and once you start the exam, you will not be able to pause it. So please be sure to set aside one hour (two hours for the final exam) during the time window on each of these days.

- **Exam 1: Tuesday 5 May 1 hour between 11am and 11pm**
- **Exam 2: Tuesday 26 May 1 hour between 11am and 11pm**
- **Final Exam: Tuesday 23 June 2 hours between 11am and 11pm**

## Strategies for Success

1. Keep up on all work – set aside at least 15 hours per week to work on this course.
2. Ask questions! - Use Discussions, Canvas InBox, Office Hours on Confer Zoom...
3. Read the textbook in WebAssign and take advantage of the other resources in Canvas.
4. Start the homework long before it is due.

## Required Course Materials

- **WEBASSIGN:** To access **WEBASSIGN ONLINE HOMEWORK** (Not available until start of the quarter), follow the links to WebAssign in Canvas. WebAssign includes the **Textbook as an e-book**. WebAssign costs about \$35 **NOTE:** It might be free... **For EACH homework, be sure to click the link to that homework** in Canvas. Use the direct links for each chapter, OR click on **Assignments** on the left side of this page
- **TEXTBOOK:** *Introductory Statistics* by Illowsky and Dean. (print or online) All of the text is free online, and is included as an e-book with WebAssign. Alternatively, use or download at: <https://openstaxcollege.org/textbooks/introductory-statistics/get> or at <http://cnx.org/content/col11562/latest> (<http://cnx.org/content/col11562/latest>) You may also purchase a printed copy at the De Anza College bookstore: <http://books.deanza.edu/home.aspx> (<http://books.deanza.edu/home.aspx>).
- **CANVAS:** [deanza.instructure.com](http://deanza.instructure.com) (Free.) Used for links to notes, videos, keeping track of your grades, doing homework taking quizzes and exams, and for downloading and uploading projects.
- **CALCULATOR:** A TI-84 graphing calculator (or equivalent) is essential throughout the course and is needed for the exams.
- **Some files in the course are pdf.** Download **Acrobat Reader** (<https://get.adobe.com/reader/otherversions/>), if you do not already have it so you can read the pdf files.

## Note to students with disabilities

If you have a disability-related need for reasonable academic accommodations or services in this course, provide me with a Test Accommodation Verification Form (also known as a TAV form) from Disability

Support Services (DSS) or the Educational Diagnostic Center (EDC). Students are expected to give **one week** notice of the need for accommodations. Students with disabilities can obtain a TAV form from their DSS counselor (408 864-8753 DSS main number) or EDC advisor (408 864-8839 EDC main number). The application process is here: <https://www.deanza.edu/dsps/dss/applynow.html>  
(<https://www.deanza.edu/dsps/dss/applynow.html>)

## No Make-Ups

**There are absolutely NO MAKEUPS for any missed work, and no late work will be accepted.** I count your top 2 exam scores (out of the 3 exams), plus the final exam score. Therefore, it is possible your final exam score will be counted twice. If you do not take the final exam, your course grade will be F. Late projects will receive a grade of 0. For the homework on WebAssign, and the Canvas quizzes, I only take your top 10 grades. This **also takes into account any technical difficulties** that may occur.

## Cheating

Students who submit the work of others as their own or cheat on exams or other assignments will receive a failing grade in the assignment and will be reported to college authorities. However, on the projects you are encouraged to work in groups of up to 4 people and submit one project per group.

## Online Homework

The purpose of homework is to help you learn the material in the course. You learn the most and do your best if you work through the homework problems. Your 10 highest **WebAssign** homework scores count towards your final grade, this also takes into account any technical difficulties you may have. **NO EXTENSIONS WILL BE GRANTED. Each homework question may be submitted up to 5 times**, so for each homework your score should be close to 10. To access the homework, for each chapter **click on the links in Canvas!**

## Projects

Projects may be done groups of up to four members - you may post in the course **Discussions** to find people to work with. Turn in one copy with all of the group members' names on the project. Working alone is also just fine.

**Late papers will receive a grade of 0.** Projects must be uploaded in Canvas as a **SINGLE** attachment (a single file, NOT a folder with several files) by the due date and time, in the appropriate place (upload in the Project under Assignments). Attachments that are blank or cannot be opened receive a grade of 0. If you upload more than one file, I will only grade one file - the default is the most recent upload. Your 4 highest project grades count towards your final grade.

## Exams

Two Midterm Exams (1 hour) and one Final Exam (2 hours) will be given during the quarter. The exams are in Canvas and are available from 11:00am to 11:00pm on the dates given above. Please plan to have time to take the exams on those days - the cut off is 11pm.

## Feedback

For **EVERY** assignment, be sure to review the correct answers to help understand what you went wrong, and thoughtfully ask me any questions on anything you need help with. In WebAssign there is a Key icon to click on after the due date and time. Also, in WebAssign, there is an "Ask the Instructor" button - please use this! For the projects, check out the rubric in Canvas and review any comments I write about your work after it is graded. Expect the project grades with comments within 3 days of the due date.

## Grades

Summary of assignments for the course

Type	Description	Maximum Points
3 Exams (2 midterms plus final exam)	Top 2 out of 3 at 100 points each	200
Final Exam *	100 points	100
Online Quizzes (includes orientation quiz)	14 at 10 points each, 4 lowest dropped	100
Projects	6 at 25 points each, 2 lowest dropped	100
WebAssign online homework	13 at 10 points each, 3 lowest dropped	100
TOTAL		600

\*If

you do not take the Final Exam your grade for the course will be F.

Percentage needed for each letter grade

Letter Grade	Lowest Percent for the letter grade
A	93%

A-	90%
B+	87%
B	83%
B-	80%
C+	77%
C (PASS)	70%
D+	67%
D	63%
D-	60%
F	0%

## Tentative Calendar

Calendar for the Course

Week, Monday date	Topic to study this week (homework quizzes, projects are due the beginning of the following week)	Online homework and quizzes due MONDAY NIGHT 11:00pm Cupertino Time	Projects and Exams - TUESDAY
Week 1 6 April	NOTHING DUE THIS WEEK – instruction officially starts Monday 13 April.	NOTHING	
Week 2 13 April	Chapter 1: Sampling and Data Chapter 2: Descriptive Statistics	<b>REQUIRED</b> Orientation Quiz (due <b>Friday17 April</b> )	
Week 3	Chapter 3: Probability Topics	Monday 20 April	Tuesday 21 April

20 April		Homework Chapter 1, 2 Canvas Quiz Chapter 1, 2	(Short) Project Chapter 1
Week 4 27 April	Chapter 4: Discrete Random Variables	Monday 27 April Homework Chapter 3 Canvas Quiz Chapter 3	Tuesday 28 April Project Chapter 2
Week 5 4 May	Chapter 5: Continuous Random Variables Chapter 6: Normal Distribution	Monday 4 May Homework Chapter 4 Canvas Quiz Chapter 4	<b>Tuesday 5 May</b> Exam 1 Chapters 1,2,3,4
Week 6 11 May	Chapter 7: The Central Limit Theorem	Monday 11 May Homework Chapter 5, 6 Canvas Quiz Chapter 5, 6	
Week 7 18 May	Chapter 8: Confidence Intervals	Monday 18 May Homework Chapter 7 Canvas Quiz Chapter 7	Tuesday 19 May Project Chapter 7
Week 8 25 May	Chapter 9: Hypothesis Testing with One Sample	Monday 25 May Homework Chapter 8 Canvas Quiz Chapter 8	Tuesday 26 May Exam 2 Chapters 5,6,7,8
Week 9 1 June	Chapter 10: Hypothesis Testing with Two Samples	Monday 1 June Homework Chapter 9 Canvas Quiz Chapter 9	Tuesday 2 June Project (Proportion) Chapter 9
Week 10 8 June	Chapter 12: Linear Regression and Correlation	Monday 8 June Homework Chapter 10 Canvas Quiz Chapter 10	Tuesday 9 June Project (Mean) on Chapter 9
Week 11	Chapter 13: F-Distribution and	Monday 15 June	Tuesday 16 June

15 June	One-Way ANOVA Chapter 11: The Chi-Square Distribution	Homework Chapter 12 Canvas Quiz Chapter 12	Project Chapter 12
Week 12 22 June		Monday 22 June Homework Chapter 11, 13 Canvas Quiz Chapter 11,13	Tuesday 23 June Final Exam Chapters 1-13

## IMPORTANT NOTE:

You should always, throughout this course, include leading zeroes, for example write 0.57 **NOT** .57.

## How this Course Works

You will find all of your class assignments, materials and quizzes in the Modules portion of this course. You can jump into the modules by clicking the link in the left navigation, or you can jump to a specific chapter here:

[Chapter 1](#) | [Chapter 2](#) | [Chapter 3](#) | [Chapter 4](#) | [Chapter 5](#) | [Chapter 6](#) | [Chapter 7](#) | [Chapter 8](#) | [Chapter 9](#) | [Chapter 10](#) | [Chapter 11](#) | [Chapter 12](#) | [Chapter 13](#)

To go to any other pages/Chapters/resources, use the "Modules" link on the left.

To leave anonymous feedback to help improve the course, please visit the [Class Survey](#).

## Course summary:

Date	Details
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**Student Learning Outcome(s):**

\*Organize, analyze, and utilize appropriate methods to draw conclusions based on sample data by constructing and/or evaluating tables, graphs, and numerical measures of characteristics of data.

\*Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.

\*Collect data, interpret, compose and defend conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.