Math 10.66Z - Statistics, Fall 2016

CONTACT INFORMATION
Dr Lisa Markus
Email: markuslisa@fhda.edu

The best way to contact me is **via email.** Expect a reply before the end of the next school day.

OFFICE HOURS
Tuesday 5:10 – 6:20pm in **S 76 F** or by appointment. Please come by and ask questions!

Welcome to Statistics! Please read this syllabus in its entirety. This is an online course with a required once-a-week on-campus meeting, **6:30 – 8:20pm on Tuesday.** This course is for independent learners. That means that you will learn the material on your own via the textbook and Catalyst, and come to class for an overview of the material, to ask questions, and to take quizzes, exams, and to start projects.

Math 10 Student Learning Outcomes

1. 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.
2. Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.
3. 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.

MATERIALS FOR MATH 10

- **REQUIRED NOTEPACK:** Note pack, please print from http://www.deanza.edu/faculty/markuslisa/ (use the link on the left to access this course) or you can purchase the note pack at the De Anza bookstore. You **MUST** bring a **printed** copy to class in order to participate.

- **REQUIRED TEXT***: Introductory Statistics* by Illowsky, Barbara, and Dean, Susan. (print or online) All of the text is free online. Use or download at: https://openstaxcollege.org/textbooks/introductory-statistics/get or at 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 .

- **REQUIRED CATALYST** https://catalyst.deanza.edu (not available until the start of the term. Free.) Used for links to lectures and videos, and keeping track of your grades.

- **REQUIRED**: To access **WEBASSIGN** ONLINE HOMEWORK: http://www.webassign.net (Not available until start of the quarter. Costs about $35.) **Class Key:** deanza 4534 9749

- **REQUIRED CALCULATOR**: TI-83+ or TI-84+. Must be a physical calculator, not an app on your phone, etc.

- **REQUIRED**: 4 long brown scantrons (#2052 at the college bookstore counter), a #2 pencil and an eraser for the exams

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).

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 do the homework problems. The homework you do using **Webassign** will count towards your grade. Your 10 highest **Webassign** homework scores count towards your final grade. Each WebAssign homework may be submitted up to 5 times.

Technology Based Projects
Technology Based Projects make use of the TI graphing calculator, and will be done groups of up to four members. Turn in one copy with all of the group members' names on the top. Projects are due during the first 5 minutes of class. All projects must use the data shared in class. All projects must be handed in to the instructor with all pages **STAPLED** together, or emailed as a **SINGLE** file (one document, not a folder with multiple documents) before the due date and time. If I cannot open your attachment, your grade is 0. **Late papers will receive a grade of 0. Projects will be started in groups in class.** If you are not **actively participating** on the project in class on the day we start it, your grade is 0. This means if you miss all or most of the part of a class when we start the project, you will not get any credit for it.

Quizzes
There are several in-class quizzes. For each quiz you may bring one 8 1/2 inch by 11 inch page (both sides - this is only ONE piece of paper, not two glued together, etc.) of notes

Exams
Three Midterm Exams and one Final Exam will be given. Bring a long brown scantron (#2052 at the college bookstore counter), a #2 pencil and an eraser to the exam. You must also **BRING A PHOTO ID**. You may bring one 8 1/2 inch by 11 inch page (both sides - this is only ONE piece of paper, not two glued together, etc.) of notes for the Exams (TWO pages for the Final Exam), a calculator (NOT an app on your cell phone, etc.), and, if English is a second language, a print (not electronic) English translation dictionary.

There are absolutely NO MAKEUPS for any work. I count your top 3exam scores (out of the 4 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. Exams not taken at the official time will result in a grade of 0. Late projects will receive a grade of 0.

Dropping/Withdrawing from the Course
IT IS YOUR RESPONSIBILITY TO DROP OR WITHDRAW IF YOU NEED TO. It is also your responsibility to check http://www.deanza.edu/calendar/ for the De Anza College deadlines.

Class Behaviour
PLEASE be respectful of other students. During class, **all electronic devices**, other than your TI calculator, **must be OFF** (not vibrate mode). If your phone, pager, or any other electronic device goes off during an exam or quiz, even on vibrate mode, your exam or quiz must be turned in

immediately and you may receive a 0 for the assignment. Disrespectful behaviour (which includes, but is not limited to, noise from electronic devices) may result in you being asked to leave the class, and/or being dropped from the class, and/or being reported to the Dean, any of which could result in an F for the course.

Cheating

Students who submit the work of others as their own or cheat on exams or other assignments will receive a 0 on that assignment and will be reported to college authorities. In addition, as per the Student Handbook, the Academic consequences may include: *1.* Receiving a failing grade on the test, paper or exam*, 2.* Having course grade lowered*, 3.* Receiving a grade of F in the course

Grades

Type	Description	Total Points
4 Exams (3 midterms plus final)	Top 3 out of 4 @ 100 points each	300
Final Exam *	100	100
In-class Quizzes	At least 5 @ 10 points each. Top 4 grades	40
Projects	3 at 30 points each, 1 lowest dropped	60
WebAssign online homework	13 @ 10 points each, 3 lowest dropped	100 Max
TOTAL		600

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

Letter Grade	**Lowest Percentage for the letter grade**
A	93%
A-	90%
B+	87%
B	83%
B-	80%
C+	77%
C	70%
D+	67%
D	63%
D-	60%
F	0%

Getting Help / Tutoring

Tutoring is available both on-campus and online. Please visit http://deanza.edu/studentsuccess/mstrc/ for information. You can also post questions in the Discussion section in Catalyst and come to my office hours.

Topics to Skip

Chapter 3: Venn Diagrams
Chapter 4: Geometric, Hypergeometric, and Poisson distributions
Chapter 7: Central Limit Theorem for Sums
Chapter 11: Test for Homogeneity, Test of a Single Variance
Chapter 13: Test of Two Variances

NOTES: The best way to contact me is via email: markuslisa@fhda.edu. You can expect a reply by the end of the next **school** day. Check Webassign for the due dates for the online homework.

TENTATIVE CALENDAR Fall 2016

Week	Date	Topics discussed in Class	Assessments in class	Online Assessments Due 3:30pm Tuesday
1	27 Sept	Chapter 1: Sampling and Data	Intro Quiz Bring Calculator and NotePack to class.	
2	4 Oct	Chapter 2: Descriptive Statistics	Start TBP Chapter 2	WebAssign Chapter 1
3	11 Oct	Chapter 3: Probability Topics	Quiz Chapter 1 & 2	WebAssign Chapter 2
4	18 Oct	Chapter 4: Discrete Random Variables	**Exam Chapters 1, 2 & 3** DUE: TBP Chapter 2	WebAssign Chapter 3
5	25 Oct	Chapter 5: Continuous Random Variables Chapter 6: the Normal Distribution	Quiz Chapter 4	WebAssign Chapter 4
6	1 Nov	Chapter 7: The Central Limit Theorem	Quiz Chapter 5 & 6	WebAssign Chapter 5 & 6
7	8 Nov	Chapter 8: Confidence Intervals	**Exam Chapters 4, 5, 6 & 7**	WebAssign Chapter 7
8	15 Nov	Chapter 9: Hypothesis Testing with One Sample	Start TBP Chapter 9	WebAssign Chapter 8
9	22 Nov	Chapter 10: Hypothesis Testing with Two Samples	Quiz Chapter 8 & 9	WebAssign Chapter 9
10	29 Nov	Chapter 12: Linear Regression and Correlation	**Exam Chapters 8, 9 & 10** DUE: TBP Chapter 9	WebAssign Chapter 10
11	6 Dec	Chapter 13: F-Distribution and One-Way ANOVA Chapter 11: The Chi-Square Distribution	Start TBP Chapter 12	WebAssign Chapter 12
12	13 Dec		**Final Exam Chapters 1 - 13: 6:30 – 8:30 pm** DUE: TBP Chapter 12	WebAssign Chapter 11 & 13

TBP = Technology Based Project

Quizzes: Intro, Chapters 1 & 2, 4, 5 & 6, 8 & 9 **5 Quizzes** - *there may be more quizzes*
Technology Based Projects: Chapters 2, 9, 12. **3 Projects**