

Math 10 (Section 06) Elementary Statistics and Probability

Summer 2016

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Welcome to Math 10: Statistics. This is arguably the most useful of all of your math classes! We will not do much algebra in this class, but it's a type of math class that requires a lot of critical thinking, contextual interpretation and conceptual understanding. Statistics is a demanding but rewarding class. This class requires daily attendance and a minimum of 10 hours of study each week outside of class. To transfer to 4-year colleges, Math 10 is required to cover a lot of material and must move at a rapid pace. You can expect to spend at least 10 hours outside of class each week towards this class, so please plan the rest of your schedule carefully. Throughout the quarter, remind yourself to be an independent learner. Tutors and classmates can be very helpful and supportive, but at the end of the day, it's your own understanding that matters. This class also has a number of group assignments, so you will be expected to collaborate with your classmates outside of class.

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.

Textbook and Supplies:

- Introductory Statistics by Illowsky and Dean
 - This book is required for the class and available for FREE at <http://openstaxcollege.org/textbooks/introductory-statistics>
 - If you wish to purchase a paper copy, it's available at the bookstore for a reasonable price (the cost of printing)
- Math 10 Course Packet
 - Available at De Anza Bookstore. Please get it immediately. We will need it starting day 1.
- A graphing calculator, such as TI-83, TI-83+ or TI-84+ (TI-84+ recommended)
 - If you don't have funds to purchase one, you can rent one from a site such as <http://www.rentcalculators.org>
 - Calculator instructions can be found in our course reader, as well as at many locations on the web.
- Other supplies to carry with you always:
 - Pencils, large eraser, ruler, notebook paper
- Webassign: software for doing homework (class KEY: **deanza 9680 1843**)
 - Homework will be collected and graded using Webassign.
 - To get started, go to webassign.net and click on I HAVE A CLASS KEY. Fill in the key
 - First & last name: use your OFFICIAL STUDENT REGISTRATION NAME exactly as you enrolled in the college and course in MyPortal Use same email address as in MyPortal for all college business
 - Cost: About \$45 for the quarter; pay online with a debit or credit card, or at the bookstore if you're using financial aid. FREE during first 2 weeks of the quarter only; during week 3 you will be required to pay the fee.
 - For technical help, please contact Webassign directly:
 - From the WebAssign application: Click Help > Customer Support.
 - Go to webassign.com/support-request.
 - Call (800) 955-8275.

Homework: Homework is essential in a math class. You cannot hope to pass the class without putting in consistent (daily) effort on homework and review. Its purpose is to help you practice and master skills, as well as learn focused problem solving. You will have homework (on WebAssign) for each chapter and it will be due roughly once a week. As you do the homework, ask yourself: "Do I have ownership of this material?" Keep in mind that on quizzes and exams, you will NOT have the helpful tools that are available while doing the homework. Use the homework as a true learning opportunity and resist the temptation to overuse or misuse the resources available to you.

Reading: You will benefit immensely by reading your textbook before (and even after) coming to class each day. The book is easy-to-read and not very "math-y", but like any math book, you will need to give it your full attention when reading. Reading will not only help you understand the lectures better and allow you to participate more in class, but you will also pick up a greater variety of examples and develop greater critical thinking skills.

Entrance/Exit Cards: Entrance cards will consist of problems from the previous days' material and will be given at the beginning of class. These will be unannounced and graded. You must be present for these. Notes will be allowed on these.

Labs: We will have 3 in-class labs. You will deepen your understanding of statistical concepts in these labs through the use of your calculator.

Quizzes: Quizzes will be given on a regular basis. Please see the calendar. The quizzes will be closed book, but you will be allowed to use a 3"x5" notecard. You will also need your calculator. The lowest quiz grade will be dropped.

Project: We will have one group project in this class. Each will require doing group work primarily outside of class.

Midterm Exams: Two one-hour exams will be given with no make-ups (before or after the exam). Please see the calendar for dates. No exam scores will be dropped; so do not plan on missing any. Your lowest exam will be replaced by the final exam percentage if the final exam percentage is higher. This rule will be applied in case of a missed midterm also.

Final Exam: A two-hour comprehensive exam will be given as listed on the calendar.

Grading:

Item	Points
2 exams @100 points each	200
Quizzes: top 6 @ 20 points each	120
Entrance Cards: top 5 @ 4 points each	20
Webassign Homework	100
Labs: 3 @ 20 points each	60
Project	50
Final Exam	150
TOTAL	700

Overall Percentage	Your grade
97% or greater	A+
91 – 97%	A
89 – 91 %	A-
87 – 89 %	B+
81 – 87 %	B
79 – 81 %	B-
75 – 79 %	C+
70 – 75 %	C
55 – 70 %	D
less than 55%	F

Attendance:

Attendance is required every day because all class time counts. Your mathematics and critical thinking are skills that are improved through constant practice. Students who attend class regularly and on time are more likely to succeed, so come on time, stay for the whole class, and be active in class. Please keep in mind:

- If you are absent, you are responsible finding out any announcements or assignment changes made in class.
- Late assignments and activities will not be accepted.
- Quizzes and midterms cannot be made up before or after the date.
- If you exceed more than one week's worth of absences, you may be dropped from the class.
- If something unexpected occurs that affects your progress in the class, please let me know so I may help.
- If you stop coming to class, you are responsible for dropping yourself or you will receive an F.

Academic Integrity: All students in this class are expected to exercise high academic integrity throughout the quarter. You are encouraged to work together but simply copying down answers from another student is not only wrong, but will not contribute to your learning. Any instances of cheating or plagiarism will result in disciplinary action, which may include getting a '0' on the assignment, report to the PSME dean, which may lead to dismissal from the class or the college.

Participation: Communication is important in learning. Please communicate regularly with your peers and me. Active participation in class occurs when you are fully engaged in what is being discussed, and engagement is necessary for success. You will have several group work opportunities. Be collaborative – it is part of your grade, and is good practice for “real life”.

Student Conduct: Politeness is a requirement for this class. Out of courtesy for your classmates, please mute the sound on your cell phone. Please do not take calls in class or text message during class! Your cell phone must be in your bag during all of class. Remember to be courteous to everyone in the class, even when you disagree. Please do not carry on conversations while I am talking, during a presentation, or when a classmate is talking. This is rude and I will ask you to leave if the behavior continues.

Note: If you have any special circumstances that you feel may influence your performance in this class (a diagnosed learning disability, physical disability, or anything at all that might interfere with your learning), please come chat with me so that we can create a learning environment that works for you.

IF YOU NEED HELP IN THIS CLASS...

Since this is a transfer level course, the sophistication of ideas, the speed at which we progress, and expectations are of a different level than in the prerequisite foundation math classes. You will need to read and rely on the textbook and the printed notes, in addition to learning the material as covered in class.

- CHECK MATH TUTORIAL CENTER (S-43) for FREE INDIVIDUAL and DROP-IN TUTORING. Availability of free tutoring is expected but not guaranteed – depends on availability of tutors & funding. Website: <http://www.deanza.edu/studentssuccess/> Room: S43
- SEE ME DURING OFFICE HOURS to ask questions about material you are having difficulty with.
- FIND A STUDY PARTNER OR FORM A STUDY GROUP early & work consistently through the quarter. Working with somebody else helps you understand material better. Work with a partner by phone or email if you can't study together in person. Work together on campus in the tutorial center or in a study room in the library. Find a study partner who is interested in WORKING along WITH you, not somebody who is trying to earn their points based on your effort without putting in similar effort themselves.
- DON'T WAIT UNTIL YOU ARE DROWNING TO GET HELP! You probably need this class to transfer. Not doing work and/or not getting help early may endanger your transfer plans, which may be delayed if you don't pass Math 10. If you wait until you are behind, you will find it difficult to catch up. Classes taken in the quarter system move quickly. That's especially true for this class, as we will be covering many different topics. Get help as soon as you have difficulty, while there is still enough time to catch up and improve.
- PREPARE FOR EXAMS EARLY: Students who start studying several days early and try sample exams are more likely to succeed in this course. Experts say it takes 2 nights of sleep for material you study to become set in your long-term memory. Try the following:
 - Exam/Quiz Practices (Prof. Bloom): [http://faculty.deanza.edu/bloomroberta/stories/storyReader\\$107](http://faculty.deanza.edu/bloomroberta/stories/storyReader$107)
 - Practice final exams in the textbook
- CHECK THE WEB for helpful resources. There are many helpful websites and videos that explain concepts and show examples. One of the authors of the book, Barbara Illowsky, has videos at https://archive.org/details/CollaborativeStatistics_Lecture_Videos

Math 10 Elementary Statistics and Probability - Tentative Calendar - Summer 2016

	Monday	Tuesday	Wednesday	Thursday
Week 1	27-Jun Greensheet, Introductions, Ch 1	28-Jun Ch 1; Print: Lab 1.1 (p 41)	29-Jun <i>Ch 1 HW due; Lab due;</i> Ch 2	30-Jun Ch 2
Week 2	4-Jul Holiday	5-Jul <i>Ch 2 HW due; QUIZ 1 (Ch 1, 2);</i> Ch 3	6-Jul Ch 3	7-Jul <i>Ch 3 HW due; QUIZ 2 (Ch 3);</i> Ch 4
Week 3	11-Jul <i>Ch 4 HW due; Print: Lab 4.1 (p 252);</i> Ch 5	12-Jul Lab due; Ch 5, Ch 6	13-Jul QUIZ 3 (Ch 4, 5); Ch 6	14-Jul <i>Ch 5 HW due; EXAM 1 (Ch 1-5);</i> Ch 7
Week 4	18-Jul <i>Ch 6 HW due;</i> Ch 7	19-Jul Ch 8	20-Jul <i>Ch 7 HW due;</i> Ch 8	21-Jul <i>Ch 8 HW due; QUIZ 4 (Ch 7, 8);</i> Ch 9; Project assigned
Week 5	25-Jul Ch 9; Print: Lab 9.1 (p 494)	26-Jul <i>Ch 9 HW due; QUIZ 5 (Ch 9);</i> Ch 10	27-Jul Lab due; Ch 10, Ch 11	28-Jul <i>Ch 10 HW due; EXAM 2 (Ch 6-10);</i> Ch 11
Week 6	1-Aug <i>Ch 11 HW due; QUIZ 6 (Ch 11);</i> Ch 12	2-Aug Project DUE; Ch 12	3-Aug <i>Ch 12 HW due; QUIZ 7 (Ch 12);</i> Ch 13, Review	4-Aug <i>Ch 13 HW due; Final Exam</i>

Other Important Dates

Please check MyPortal for important Admissions and Records deadlines for things like add, drop, withdraw, grade option, etc.