

Math 10.07 CRN 01249	Elementary Statistics & Probability	De Anza College	WINTER 2016
10:30 am – 11:20 am 5 days: MTWThF	Instructor: Roberta Bloom email: bloomroberta@deanza.edu	Office S41A <i>email is preferred</i>	Phone: 408-864-8591
Office Hours: Mon 2:40-3:30 in Tutorial Center S43 & 3:40-4:30 Office S41A ; Tues & Wed. 2:40-3:30 Office S41A			
Instructor's Websites: https://catalyst.deanza.edu AND http://deanza.edu/faculty/bloomroberta/			

Math Prerequisite: Math 114 Intermediate Algebra with grade of C or better; or equivalent placement

English Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273

Although this is a Math course, English reading comprehension and writing are very important in Math 10.

Welcome to Math 10 Statistics! We will learn basic statistical methods that are used in the real world in many ways that affect your daily life, as well as being an important part of many fields of college study and professions.

Math 10 is a demanding, but rewarding class. To transfer to 4-year colleges, the four year colleges require that Math 10 must cover a lot of material, so we move at a rapid pace. This class requires daily attendance and 10 hours per week of study each week outside of class. Review your schedule now to plan your time for the work needed for this class.

This is a collaborative class; you are expected to work with your classmates both in and 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, describe data distributions through 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.

Course outline - required topics: <http://ecms.deanza.edu/deptoutlinespublic.html>

Materials & Resources required for this class:

- **Catalyst** : free online course management system: course notes and materials: <https://catalyst.deanza.edu>
- **Textbook Introductory Statistics from OpenStax:** available free online or print book under \$35 in bookstore http://cnx.org/contents/30189442-6998-4686-ac05-ed152b91b9de/Introductory_Statistics
- **Webassign** online homework system: about \$33 if purchased directly online: <http://www.webassign.net>
- **TI-83+ or TI-84+ calculator** (more info on page 4)

Bring To Class Daily: course notes for current chapter; calculator & 4 spare AAA batteries, ruler, small stapler

College Schedule & Deadlines are enforced by the college: Last day to Add: Sat. 1/16

Last day to Drop (no W): Mon. 1/18 Last day to drop with refund: Sun 1/17 Last day to Elect P/NP: Fri. 1/29

Last day to Withdraw with W: Fri. 2/26 in week 8 *Check online academic calendar to confirm these dates are correct.*

Final Exam: Thursday 3/24: 9:15 – 11:15 am. This is the college mandated official final exam date and time.

Read this entire syllabus to be familiar with the class and policies and grading.

If the syllabus does not answer your question, ask the instructor. Syllabus is posted on online at:

<http://deanza.edu/faculty/bloomroberta> <https://catalyst.deanza.edu> www.deanza.edu/psme

GRADING SUMMARY: For details on grading items, see pages 3 and 4:

GRADES are based primarily on exams & quizzes	Points	Approx. %	COURSE GRADES	
3 Midterm Exams	300	39 -42%	Minimum percentage needed to <i>guarantee</i> the indicated grade	
Final Exam (mandatory)	150	19 -21%	A: 93% A-: 90%	
Quizzes <i>best 5 of 6 quizzes</i>	100	13 -14%	B+: 87% B: 83% B-: 80%	
Chapter Homework	100	13 -14%	C+: 76 % C: 68%	
Worksheets/Technology/ Lab Activities	60-120	8 -16%	D: 58% F: under 58%	
Total points	710-770 points	Total 100%		

Catalyst Website: <https://catalyst.deanza.edu> De Anza's online course management system: access to course materials, syllabus, schedule, announcements, assignments,

- Follow onscreen QUICK LOG IN instructions. After your first log-in, change your password.
- Only students registered in this class can login. If adding, ADD IMMEDIATELY to get Catalyst access in 24 to 48 hours.
- Need help logging into Catalyst? Use tech help links on Catalyst site for assistance directly from their support staff.
- **Chapter Notes are available in Catalyst for most chapters; print and bring them to class to take notes.**
Notes were created because past students requested them as being helpful. Chapter notes have formulas, definitions, examples, word problems or data or graphs and extra practice problems; most examples we do in class come from the notes. But we may not do all examples in the notes in class; some are there for extra practice.

Open Website: <http://deanza.edu/faculty/bloomroberta> ; no log-in needed; contains some (not all) course materials that are also in Catalyst; **students should use Catalyst for complete resources and up to date information.**

Webassign: Chapter homework is collected and graded using Webassign. (Available as of Thursday of first week.)

- <http://www.webassign.net> To get started, click **I HAVE A CLASS KEY** Enter key **deanza** **8639** **6085** into the boxes and submit. Follow online instructions. **First & last name: use your official registration name exactly as in MyPortal.** Use same email address as in MyPortal for all college business. (If email address in "MyPortal" is not correct, put correct email in both Webassign and MyPortal .)
- Cost: about \$33 for the quarter; pay online with debit or credit card. FREE during first 2 weeks of the quarter only. For students with financial aid vouchers, access codes are available in bookstore, but cost is slightly higher.
- **Need help logging into Webassign?**
1) Contact Webassign Tech Help: (800) 955- 8275 http://www.webassign.net/info/contact_us.html
http://www.webassign.net/user_support/student/index.html see www.webassign.net for their help hours.
2) OR See the instructor *in her office* during office hours.

Textbook: Introductory Statistics from OpenStax, by Illowsky & Dean

- free web version http://cnx.org/contents/30189442-6998-4686-ac05-ed152b91b9de/Introductory_Statistics
- free pdf file of complete print version - download from OpenStax site
- free pdf to use online or download from link in Catalyst
- print book can be purchased at the bookstore – cost under \$35 new; used or rental copies may be available

Calculator Required: TI-83, TI-83+, or TI-84+ ; we use them every day in class; they have statistics “apps” to make statistical calculations easy instead of tedious. Instructor demonstrates their use in class.

- TI-89 is acceptable but NOT recommended - it is harder to use for this class than TI-83/84.
If using TI-89, you must take sole responsibility for getting programs and learning them – see info in Catalyst
- If your calculator is lost, stolen, broken, etc. it is your responsibility to obtain a calculator to use.
Library Reserve has TI-83/84 calculators for limited loans. Cell phones or other devices can **NOT** be used as a calculator on a quiz or exam. Students can **NOT** share calculators for quizzes or exams.
The instructor can **NOT** lend her calculator.

BE PREPARED: Your preparation affects your and other students' ability to learn in class.

Active learning and exploration of ideas are possible when students come to class capable and prepared. Such activities are designed to present material in a more accessible, intuitive manner with hands-on participation. If students are unprepared and therefore not able to participate, an activity may fail as a demonstration of the concept it is designed to illustrate, adversely affecting everybody's opportunity to learn. **Bring required materials daily and keep up to date to be able to participate in a constructive manner to class learning activities.**

RESPECT OTHER STUDENTS' RIGHT TO LEARN IN AN ENVIRONMENT THAT SUPPORTS LEARNING.

- **No private conversations or disruptive behavior in class.**
Students disrupting class may be asked to leave the classroom or may be dropped from the class.
- **Turn off & put away cell phones & other devices before class:** if it makes noise or disrupts class, the instructor may ask you to leave. Each time it makes noise during a quiz/exam, points may be deducted from your grade. If it makes noise repeatedly during a quiz/ exam, the instructor may take your paper and ask you to leave.

GRADING INFORMATION:

HOMEWORK: READ THE TEXTBOOK - REVIEW CHAPTER NOTES - DO ASSIGNED PROBLEMS

Homework provides practice in the skills and concepts we learn in class. Just as practice is important in sports and music, practice is also essential in learning math. Do the homework with the goal of understanding so that you will be able to do similar problems on quizzes and exams. Sometimes you may need to struggle though a problem until it becomes clear – keep trying and work on understanding rather than just guessing answers to earn homework points.

If you have trouble with a concept or skill, come to office hours or use the tutorial center to get help.

- **13 homeworks at 10 points each; 10 best homeworks are counted; the rest are dropped; total 100 points**
- **Assignment schedule is in Catalyst & Webassign.** For online homework, submissions for each question is usually limited to 2 attempts. Submit homework on time. After due date/time, answer key is available online and homework can no longer be submitted for credit, but is still available to do for practice.
- The instructor will answer homework questions in class to the extent that time permits. Additional help available during office hours and in Tutorial Center S43.

QUIZZES: 6 quizzes – 20 points each – best 5 quizzes are counted – total 100 points:

Based closely on homework and classwork. Prepare for quizzes by doing homework and reviewing classwork.

Quizzes have several purposes: (1) to provide a way for students to assess understanding before an exams;

(2) to provide a way for the instructor to assess students' understanding and identify areas of difficulty;

(3) to motivate students to do work on a timely basis instead of cramming for exams at the last minute;

Quizzes are primarily written out answers (possibly some multiple choice). Grading depends on clarity of work, interpretations, accuracy and completeness of graphs, and explanations as well as numerical answers.

- **NO MAKE-UP QUIZZES.** If you are absent for a quiz for ANY reason, you earn a quiz grade of 0. *One quiz grade of 0 for absence can be dropped as your lowest grade. You are limited to 1 quiz grade drop, so dropping a grade of 0 for quiz absence will mean you can NOT drop some other low quiz grade.*

MIDTERM EXAMS: 3 exams; 3 @ 100 points each - Bring scantron (green #882 or brown #2052) & calculator

- Midterm exams are all or part multiple choice; exams may or may not contain some free response questions requiring you to write and show work. Your instructor can NOT lend her calculator and will NOT supply scantrons.
- *If it improves your course grade, your lowest exam grade is replaced by the percentage equivalent grade on the final exam (2/3 of final exam grade), not to exceed 100%.*
- **NO MAKE-UP EXAMS.** Absence earns a grade of 0. *One such grade of 0 for absence would be the lowest exam score that gets replaced by the percentage equivalent grade on the final exam; an exam absence would therefore prevent replacement of the grade on another midterm that had a poor grade.*

FINAL EXAM: 2 hours; 150 points; mandatory ; comprehensive: includes ALL material covered during the quarter

- **No early/late final exams;** schedule is college-mandated. Plan your schedule now to be available for the final exam on that date and time. See college online final exam schedule and also page 1 of syllabus for final exam date.
- **Bring scantron (green #882 or brown #2052) (50 questions per side) and your calculator.** Final exam is all multiple choice. Instructor can NOT lend her calculator and will NOT supply scantrons.
- 2 pages of student's HANDWRITTEN notes permitted, 8.5 by 11 inches, 2-sided. Notes are collected with the final exam; instructor keeps both the notes and the final exam papers.
- *If it improves your course grade, your lowest exam grade is replaced by the percentage equivalent grade on the final exam (2/3 of final exam grade), not to exceed 100%. If your total homework grade out of 100 points is lower than your lowest exam grade, the homework grade can be replaced according to this policy instead of a low exam, if it is more advantageous to your grade.*

NOTES for QUIZZES & EXAMS:

ONE page of student's HANDWRITTEN notes permitted for all midterm exams and quizzes: 8.5 by 11 inches, 2 sided. (TWO pages for final exam only.) Notes are collected with midterm exams and quizzes and will be returned with your graded quiz/exam if you write your name on it and staple it to your quiz/exam. Notes for final exam are kept by instructor. But if your notes do not comply with requirements, they will be taken away and you will take the quiz or exam or final with NO notes.

GRADING INFORMATION Continued:

TECHNOLOGY & CLASSROOM ACTIVITIES/WORKSHEETS/LABS: 60 to 120 points of your grade consists of technology activities/worksheets/classroom activities to be determined during the quarter.

- **These can occur in class anytime in the quarter, often without advance notice.**
Some activities or worksheets may be done as part of the day's classwork and, if so, can not be made up if you are absent and miss it.
If an activity or worksheet is to be worked on at home, then it must be turned in on time, in class at the beginning of class on its due date.
- These include computer/technology activities or labs required by UC/CSU for this class to be transferable. Technology activities may be calculator based or may involve use of statistical software in a computer lab during the class's regular meeting time.

SCHEDULE & CHANGES : Quizzes / Exams may vary day of week – dates listed in Catalyst. Any changes will be announced in class (and posted on Catalyst, if possible). Because students are expected to attend daily, if you are absent for an exam or quiz, the policies above still apply even if the date of a quiz/ exam was changed.

STANDARDS OF WORK: College level work is expected ; work is graded for both accuracy and quality of work.

- **Written work that is graded must be complete, neat, legible, organized, and in order.** When work/explanation is requested, correct answers must be supported by correct work to receive credit; otherwise you may lose credit, even if the final answer is correct.
- **Interpretation is crucial in statistics:** when are asked for interpretations, conclusions or explanations, use complete sentences that explain concepts and conclusions in the context of the problem. It is expected that you will learn and use proper statistical wording and form. You will be taught in class what is expected when specific statistical wording and form are needed. You can lose credit for missing, incomplete or incorrect interpretations and explanations.
- **For papers handed in :** Write full name/class time and staple (no folded corners); if unstapled work is handed in and pages come apart and separate and get lost, the work is considered incomplete. Instructor is not responsible for lost pages if it is not stapled.

ESL: If English is a second language, a print (not electronic) English translation dictionary is allowed for exams/quizzes.

ACADEMIC INTEGRITY: All students are expected to exercise academic integrity throughout the quarter.

- **Cheating and academic dishonesty are not tolerated and can result in a grade of 0 or F for that quiz/exam/assignment or a grade of F for the course and referral to the Dean for academic discipline.**
Any grade of 0 or F due to cheating or academic dishonesty will not be dropped or replaced.
- Cheating includes, but is not limited to: copying from other students, permitting other students to copy from you, plagiarism, submitting work that is not your own, using notes that do not meet permitted specifications, continuing to write/erase on exam/quiz after the permitted time has ended, changing your exam/quiz paper after it has been graded and then requesting a grading correction.
- Using any electronic device other than your approved TI calculator on a quiz or exam may be considered cheating. Sharing a calculator with another student for exam/quiz is considered cheating as work may be saved in memory.

ATTENDANCE, DROPS, WITHDRAWALS: Regular attendance is important for success in math class as each day's work builds upon what came before. You are expected to attend all classes, arrive on time & stay for the entire class. Late arrival/early departures are disruptive to the class and to your classmate's learning. The instructor reserves the right to drop students who miss more than 5 classes during the quarter or who miss any classes in the first two weeks you. However the instructor may or may not perform such a drop/withdrawal.

College Policy: **If the student chooses not to complete the class, it is the STUDENT'S RESPONSIBILITY to drop or withdraw by the college deadlines.** If you stop attending but do not withdraw or drop you may fail with a grade of F. *See deadlines on page 1 of syllabus and on college online academic calendar; the college strictly enforces these deadlines.*

- Parking is difficult. Plan extra time to avoid traffic and parking problems to avoid being late.
- You are responsible for keeping up and to be aware of schedule changes even when absent. Get classmates' contact information so you can get notes and information. Check Catalyst to find out about due dates or schedule changes.
- Instructor will not repeat lectures during class, office hours, or any other time. If you are absent, read the textbook and go to the Tutorial Center first; come to office hours if you still have specific questions.

COMPUTER ACCESS: This class requires several computer resources explained on pages 1 and 2.

- Library West Computer Lab has computers with internet access; located in the **LCW** building downstairs <http://www.deanza.edu/library/librarywestcomputer.html> (408-864-8761)
- Math/Science Tutorial Center in Room S43 also has some computers available for student use.

EDUCATIONAL ACCESS: Please see instructor during office hours to discuss your situation confidentially if you have accommodations; you should see the instructor during the first week of class or as soon as you receive approval from the appropriate support service.

For information about eligibility, support services or accommodations due to physical or learning disability see:

- Disability Support Service (DSS): www.deanza.edu/dss Location: SCS-141 (408) 864-8753; TTY (408) 864-8748
- Educational Diagnostic Center (EDC): www.deanza.edu/edc Location: LCW 110; (408) 864-8839
- Special Education Division: www.deanza.edu/specialed (408) 864-8407

CLASS CANCELLATION, EMERGENCY:

If class is canceled for any reason, or if an emergency causes campus to be closed, assume that any quiz, exam or due date scheduled on that date will be rescheduled to our next class meeting. If there are other changes, I will announce them in class after classes resume. Check the website and email; if necessary and if possible, I may post a message.

IF YOU NEED HELP IN THIS MATH 10 CLASS

- **MATH TUTORIAL CENTER (S-43)** has **FREE TUTORING** for **MATH 10**.
Drop in tutoring is available daily. Ask in the Tutorial Center about the availability of individual weekly tutoring.
- **FREE ONLINE TUTORING** from **SMARTTHINKING.COM** - available in MyPortal
Amount of online tutoring may be limited per student during the quarter.
- **SEE INSTRUCTOR DURING OFFICE HOURS** to ask questions about material you need help with.
- **FIND A STUDY PARTNER OR FORM A STUDY GROUP** early. Working with somebody helps you understand material better. Work consistently through the quarter. Collaboration is easy to do: use phone or email or text or chat if you can't study together in person. Find a study partner who is interested in **WORKING WITH** you, not somebody 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.**
Get help as soon as you have difficulty, while there is still time to catch up and improve!
Classes taken on the quarter system move quickly; if you wait until you are behind, it will be difficult to catch up.
You probably need this class to transfer. Not doing work and/or not getting help early may endanger your transfer plans. Your transfer plans may be delayed if you don't pass Math 10.
- **PREPARE FOR EXAMS EARLY:** Students who start studying several days early are more likely to succeed on exams. It takes a couple of nights of sleep for material you study to become set in your long-term memory. If you cram the day before, you may "blank out" when trying to answer exam questions, or may not recall it quickly enough to finish in time. Check Catalyst for resources that provide additional practice for exams.
- **CHECK THE WEB for helpful resources.**
 - ◆ Course websites contain your instructor's support materials.
 - ◆ Catalyst site will contain links to practice materials for exams - they will not look exactly like your exam but they will provide practice across a broad spectrum of the skills required for the exams and will give you practice in how questions on your exam are asked to give you an idea of generally what to expect.
 - ◆ Video lectures/podcasts by other instructors teaching from this textbook - some students like these because they can watch them over and over to help in learning the material.
 - Video lectures/podcasts by authors Illowsky & Dean:
<http://cnx.org/content/m18746/latest/#videolectures>; or <http://cnx.org/content/col110586/1.2>
Check Catalyst for other possible links to the same videos
 - Video lectures and mini-lectures by Prof. Larry Green at Lake Tahoe Community College
The mini-lectures are short and each focuses on how to solve a particular type of problem.
<http://www.ltcconline.net/greenl/courses/201/CamtasiaStatCrunch/index.htm>
or https://www.youtube.com/channel/UCzuysnkCt_bLhJkqFchj6TA/playlists
or go to YouTube and search for Larry Green