

MATH 10 Elementary Statistics	DE ANZA COLLEGE	WINTER 2009
MATH 10.09 (1462)	5 days: MTWThF 11:30 am – 12:20 pm	
Instructor: Roberta Bloom	email: bloomroberta@deanza.edu	Phone: 408-864-8591
Office: S41a	Office hours: Mon. & Wed. 12:30 to 1:30 pm	Tues. & Thurs: 3:45 to 4:45 pm

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

Advisory: English Writing 100 & Reading 100 (or Language Arts 100), or ESL equivalent courses

Textbook: Available online at <http://cnx.org/content/col10617/latest/>

Custom Version, edited by R. Bloom, of **Collaborative Statistics** (derived from Illowsky & Dean, 2007)

This custom version is different from the version used by other De Anza instructors. It is NOT sold in the bookstore.

- The custom textbook may be used online at the link above at no cost OR
- The custom textbook can be ordered in print, *in 2 parts*, via the links below:

Textbook Collection (cost about \$21.50) : <http://cnx.org/content/col10617/latest/>

Print version includes reading and worked examples explaining and demonstrating concepts and skills; includes chapter “practices”. (NOTE: This print version does NOT include homework & review problems.)

Homework Book Collection (cost about \$16.50) : <http://cnx.org/content/col10619/latest/>

This print version contains the homework problems and review problems.

(does NOT include reading & worked examples for concepts & skills; does NOT include chapter “practices”)

Calculator Required: TI-83, TI-83+, or TI-84+

Small Stapler and **4 extra AAA batteries** for calculator; keep them in your backpack.

Catalyst Website: <https://catalyst.deanza.edu> This class uses Catalyst, De Anza College’s online course management system. The class site on Catalyst has the schedule, assignments, announcements, resources & required course materials. To log in: Username: 8 digit student ID Initial password: birthdate in form MMDDYYYY. (The log-in page has instructions.) After your first log-in, you should change your password. Only students registered in this class are able to log-in. The system will reject your ID if you are not registered in the class, so if you are adding, add immediately to get access to required course materials.

Computers with internet access are available in Media Center Learning Center West

Chapter Notes & Labs: To supplement the textbook; chapter notes are provided via the Catalyst website for some chapters during the quarter. Lab instructions and worksheets are also provided via Catalyst. Print out chapter notes and labs and bring them to class, according to schedule on Catalyst.

Statistics is a demanding but rewarding class. We learn statistical concepts and methods that affect us daily in the real world in both our personal and professional lives.

To transfer to 4-year colleges, Math 10 is required to cover a lot of material and moves at a rapid pace.

In addition to regular attendance, **significant work is required outside class:** 10 hours of weekly study outside class is recommended. The De Anza College catalog advises students to do 2 hours of work outside class for each hour spent in class; the standard academic meaning of each unit of credit (at *all* colleges) is that it represents 1 hour in class + 2 hours of study outside of class.

If you do not have time or cannot commit to attend class and do the work required outside of class, then you should plan to take this class in another quarter when you are able to commit the necessary time

GRADES Students are evaluated primarily on Exams (Midterm Exams approx. 43%-44%; Final Exam approx. 21%-22%) Quizzes (14%-15%), Labs (14%-15%), and participation/assignments (4%-7%) also affect the grade.

*Exams: 3 @ 100 points	300 points
Final Exam	150 points
Quizzes 6 @ 20 points, drop lowest	100 points
Labs 5 @ 25 points, drop lowest	100 points
Participation/Assignments (Various, TBD)	25 - 50 points
Total points possible:	675 - 700 points

Course Grades: Minimum percentage needed to guarantee the indicated grade		
A: 93%	A-: 90%	
B+: 87%	B: 83%	B-: 79%
C+: 76 %	C: 68.0%	
D: 58%	F: under 58%	

See following pages for more grading information

- Attendance and Drops** Regular attendance is essential for student success in math class. You are expected to attend all classes, arrive on time and stay for the entire class. Late arrival/early departures are disruptive. You may be dropped if you miss any classes during the first week OR if you are absent from, arrive late to, or leave early from more than 5 classes during the quarter, or any combination thereof. However, do not assume that I will automatically drop you if you stop attending. If the student chooses not to complete the class, it is the STUDENT'S RESPONSIBILITY to withdraw from the course by the official college deadlines: Drop online with no W by Fri. Jan. 16; Withdrawals with a "W" must be done in person at Admissions & Records before Friday Feb. 27. If you just stop attending without officially withdrawing, you may fail the class with a grade of F.
- Be Prepared:** Your preparation affects your and other students' ability to learn in class. **Bring required materials. Keep up to date daily so that you are prepared to participate in a constructive manner to hands-on class learning activities.** Active learning and exploration of ideas are possible when students come to class capable and prepared. If students are unprepared, an activity may fail as a demonstration of the concept it is designed to illustrate, adversely affecting everybody's opportunity to learn.
- Classroom Rules:** Respect other students' right to learn in a classroom environment that supports learning. **No private conversations or disruptive behavior in class.** Disruption of class may result in the student being asked to leave or being dropped. **Turn off and put away cell phones and other devices before class.** If your phone or device makes noise during class & disrupts class, the instructor may ask you to leave. If it makes noise during a quiz or exam, the instructor may deduct points from your grade each time it makes noise. If it goes off more than once during a quiz or exam during the quarter, the instructor may take your quiz/exam paper and ask you to leave.
- Midterm Exams:** **3 exams;** tentative dates are on the schedule on the Catalyst website; any changes will be announced in class (and posted on Catalyst if possible). **Bring your calculator for exams.** Your instructor can NOT lend her calculator. 1 page of notes permitted, 8.5 by 11 inches, both sides. Notes are collected with exam; you can not take them from the room. To get notes returned, you must bring a small stapler to attach notes to the exam; otherwise notes will be discarded by the instructor. **NO MAKE-UP EXAMS.** Absence earns a grade of 0. **NOTE: If advantageous to the course grade, the lowest exam grade is replaced by the percentage equivalent grade on the final exam (which is 2/3 of the final exam grade). An exam absence earns a grade of 0; one such grade of 0 for absence would then be your lowest exam score and would be replaced by your percentage equivalent grade on the final exam*
- Final Exam:** **2 hours; mandatory and comprehensive.** Covers all material on syllabus. **Bring half-page scantron #2052 & calculator.** 2 pages of notes permitted, 8.5 by 11 inches, 2-sided. Notes are collected with the exam. Instructor keeps the notes and final exam papers. **If you miss the final exam without contacting the instructor, you will receive an F for the course. Final exam must be taken at the official college scheduled final exam time for this class, which is listed in the college schedule of classes and on the Catalyst website for this class.**
- Quizzes:** Quizzes are based closely on homework & classwork. You need to do homework thoroughly & completely to prepare for quizzes. Tentative quiz dates are on the Catalyst website; any changes announced in class (and posted on Catalyst if possible). 1 page of notes permitted, 8.5 by 11 inches, both sides. Notes are collected with quiz; you can not take them from the room. To get notes returned, you must bring a small stapler to attach notes to the quiz; otherwise notes will be discarded by the instructor. **NO MAKE-UP QUIZZES.** Absence earns a grade of 0. **NOTE: Your lowest quiz grade is dropped. If you are absent for a quiz for ANY reason at all, you receive a grade of 0; one such grade of 0 for a quiz absence would then be dropped as your lowest quiz grade.*
- Homework:** The purpose of homework is to help learn the material in the course. You are held responsible to READ the textbook and chapter notes, if any. DO the chapter practices and problems assigned on the Catalyst website. Proficiency comes from practice doing problems; practice is crucial in enabling you to know how to do problems and carry it through on quizzes & exams in the amount of time given. The homework is closely related to the material asked on the quizzes. The instructor will answer homework questions in class to the extent that time permits. Additional help is available in the Math Tutorial Center (Room S43).

Participation &/Or Graded Assignments	25 to 50 points of your grade are for participation and/or graded assignments to be determined during the quarter. This includes both the calculator assignment and syllabus assignment. Other items may be class activities such as worksheets, class practice problems, or collected homework. These can occur in class unannounced, anytime during class, and can not be made up. For classroom activities, you must be there at the time the activity is done, and for assignments, you must hand it in on time when due. If regular assigned homework is to be collected and graded in this category, it will be announced in advance in class.
Graded Labs:	Labs use technology (graphing calculator or computer) to apply concepts with data or simulation. Labs will be started in class in groups; most labs need to be completed outside of class time. Labs are due immediately at START of class on due date. NO LATE LABS. Hand them in on time. Early labs are accepted. Your lowest lab grade will be dropped.
Computer Use and Website:	Catalyst Website: https://catalyst.deanza.edu is the password protected website for this course containing assignments, schedule, announcements, resources and required course materials. Open website: http://faculty.deanza.fhda.edu/bloomroberta ; does not require log-in. Contains duplicate copies of <i>some but not all</i> resources on the Catalyst website. Online textbook: http://cnx.org/content/col10617/latest/ ; may be used online or print copies may be ordered – see information on page 1 of this syllabus and on the Catalyst Website. Computer/internet access is available in Media Center Learning Center West.
Standards of Work:	<u>College level work is expected in this class.</u> Work is graded for both accuracy and quality of work. Work must be neat, legible, organized, and in order. Correct answers generally must be supported by correct work to receive credit. You may lose credit, even if the final answer is correct, if the instructor can't read or understand your work, if necessary details, work, or interpretations are missing, if work is not logically presented in an easily understandable manner, if work is shown but is incorrect and/or not consistent with answer. Interpretation is crucial in statistics: when interpretations, conclusions or explanations are asked for, use complete sentences that explain concepts and conclusions <u>in the context of the problem</u> . Papers handed in must contain your full name/class time and be STAPLED (no folded corners/doggy ears); otherwise they may not be accepted or you may not receive credit; the instructor is not responsible for unstapled papers that come apart, resulting in incomplete assignments.
Academic Integrity:	<u>All students are expected to exercise academic integrity throughout the quarter.</u> Cheating and academic dishonesty are not tolerated and can result in a grade of 0 or F for that quiz/exam/assignment/lab or a grade of F for the course. In addition the student will be referred 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 or permitting other students to copy from you, plagiarism, submitting work that is not your own, and using notes on exams that do not meet permitted specifications. Using any electronic device other than your approved graphing calculator on a quiz or exam may be considered cheating. Sharing a calculator with another student for an exam or quiz is considered cheating as work may be saved in memory.
Absence:	<u>You are responsible for keeping up with class, assignments & labs, and to be aware of schedule changes even when absent.</u> Obtain phone numbers/email addresses of other students to contact if you are absent to get notes, etc. I will not repeat lectures during class, office hours, or any other time. If you are absent repeatedly, you will find it difficult to keep up and catch up. If you are absent, read the text and go to the tutorial center first; then come to me if you still have specific questions.
Promptness	Plan to arrive on time and stay for the entire class. Leave enough time to avoid traffic & parking problems. If you unavoidably arrive late (or leave early) on a rare occasion, sit near the door to leave without disturbing other students. If you disrupt class you may be asked to leave immediately, resulting in an absence for that day. AFTER CLASS, tell the instructor you were late and pick up any handouts or papers returned at the start of class.
Calculator:	Instructor demonstrates the TI-83, 83+, 84+, which have the required statistics programs for this course. More calculator information is available on the Catalyst website. If your calculator is lost, stolen, or broken, it is your responsibility to obtain a calculator to use. (The library lends calculators for several hours at a time; you need your DASB card to borrow one.) You can NOT use a cell phone or other device as a calculator on a quiz or exam. Students can NOT share calculators for quizzes or exams. The instructor can NOT lend her calculator.

Schedule Changes, Cancellation, Emergency: Schedule changes, if any, will be announced in class. If class is cancelled for any reason, or if an emergency causes campus to be closed, assume that any quiz, exam or due date scheduled for that date will be rescheduled to our next class meeting. If there are other changes, I will announce them in class after classes resume.
Call my voicemail and check the website; if necessary and if possible, I may post a message.

Educational Access: For information or questions about eligibility, support services or accommodations due to disability (physical or learning disability) see contacts below. Also, please see me to discuss your situation.
Disability Support Service (DSS): Student Services Building (408) 864-8753; TTY (408) 864-8748
Educational Diagnostic Center (EDC): Learning Center West 110; (408) 864-8839
Special Education Division: 864-8407; www.deanza.edu/specialed

STATISTICS IS DIFFERENT FROM OTHER MATH CLASSES

Everything you learn in statistics class is relevant on a personal level to your everyday life, as well as to your professional/educational goals. Decisions in the real world made using techniques we learn in this class have already affected and will continue to affect your daily life. For example, statistical tests are used to determine the safety of the car you drive, the safety and effectiveness of medical treatments, to analyze educational programs, and to schedule TV programming. You read and hear statistics in the media every day.

Almost everything is a word problem, giving a context to the data we study. Most problems are drawn from real life situations. In statistics class, using your critical thinking, reading, and communication skills to understand, interpret and explain results is as important as doing calculations. Answers require explanation to make sense to others and to understand what the calculations tell you. Attention to detail is important.

Statisticians use computer technology to work with data. You will use your calculator as your own personal "statistics computer" to analyze data and carry out statistical tests, using it in class, at home, and on exams and quizzes. You will find that you will depend heavily on this important tool in studying modern statistics.

For many of you, this may be your first college level math class, and college level standards apply.

You may find that 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 instructor's web notes, in addition to learning the material as covered in class.

IF YOU NEED HELP IN THIS CLASS

- **CHECK THE MATH TUTORIAL CENTER (S-43)** for **FREE TUTORS** or tutoring groups for this class.
- **SEE THE INSTRUCTOR DURING OFFICE HOURS.** I can answer questions about the material or discuss how you are doing in this class.
- **FIND A STUDY PARTNER OR GROUP.** Find a partner or group **EARLY** in the quarter and work consistently throughout the quarter. Working with somebody else helps both students understand the material better. You can work with a study buddy by phone, email or **IM** if you can't study together in person. You can work together on campus in the tutorial center or in a study room in the learning center.
- **CHECK THE WEBSITE** for helpful resources. The website contains your instructor's support materials and links to support resources from other instructors. These include chapter notes, lab information and data, calculator instructions, and chapter videos/podcasts, and more.
- **DON'T WAIT UNTIL YOU ARE DROWNING TO GET HELP.**
Get help as soon as you have difficulty, while there is still enough time to catch up and improve.
Classes taken on the quarter system move quickly. If you wait until you are behind, you will have a great deal of difficulty catching up.