

Math 10: Elementary Statistics - Fall 2011

COURSE	DAY	TIME	ROOM	INSTRUCTOR: Janice Hector
10.01 (#1209)	Mon – Fri	7:30-8:20 am	E36	OFFICE PHONE: 864-5632
10.06 (#1211)	Mon – Fri	9:30-10:20 am	E36	OFFICE ROOM: E25A
10.14 (#1222)	Mon – Fri	11:30-12:20 pm	E36	email: hectorjanice@deanza.edu
OFFICE HOURS: 12:30–2:30 pm Mon. & Wed.				
Website: http://www.deanza.edu/faculty/hectorjanice/				

YOU MUST READ THROUGH THIS ENTIRE SYLLABUS TO BE FAMILIAR WITH THE CLASS.

You are expected to keep a copy of this syllabus and the course calendar with the materials you bring to class each day. For questions about the course/class policies, refer to the syllabus. ***If the syllabus does not answer your question, ask the instructor. If your question is answered in this syllabus, you will be asked to review it again for your answer.***

Course outline: required topics: <http://ecms.deanza.edu/outlineprogresspublic.html?catalogID=2175>

Student Commitment:

- This 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 moves at a rapid pace. At De Anza College (and *all* colleges) each credit unit represents 1 hour in class + 2 hours of study outside of class, weekly. **If you don't have time or can't commit to attend daily and do required work outside of class, then you should plan to take this class in another quarter when your schedule permits you to commit the necessary time to succeed.**
- This is also a collaborative class. You will be expected to work in cooperation with your classmates both inside and outside of class (no exceptions) on lab projects and worksheets.

Prerequisite:

- **MATH:** Completion of Intermediate Algebra Math 114 with grade of C or better; or a qualifying score on the Intermediate Algebra Placement Test within the past calendar year, or equivalent placement.
- **ENGLISH ADVISORY:** English Writing 100 and Reading 100 (or Language Arts 100), or English as a Second Language equivalent courses. **ALTHOUGH STATISTICS IS A MATHEMATICS COURSE, ENGLISH READING COMPREHENSION AND ENGLISH WRITING PLAY A VERY IMPORTANT ROLE IN THIS COURSE. COMMUNICATION IS CRITICAL IN LIFE, BOTH GIVING AND RECEIVING INFORMATION. STUDENTS WILL BE ASKED TO CAREFULLY EXPLAIN THEIR THINKING BOTH VERBALLY AND IN WRITING.**

Calculator Required: TI-83, TI-83+, or TI-84+ (TI-89 allowed but you must figure it out on your own.)

- Laptop computers may be used in class only on days when working on group lab projects.
- **TI-83, 83+, 84+ have the required statistics programs: the programs are demonstrated in class.**
- If your calculator is lost, stolen, or broken, etc. it is your responsibility to obtain a calculator to use. The library has a small number of TI-83 calculators for limited loans; you need a DASB card to borrow one. (TI-89 acceptable but NOT recommended - it is harder to use for this class. If using a TI-89, you must take sole responsibility for getting programs via TI website and learning on your own how to use it for this class.)
- Cell phones or other devices can **NEVER** be used as a calculator in class or on a quiz or exam.
- Students can **NOT** share calculators for quizzes or exams.

Text: *Collaborative Statistics*, 2nd ed., Illowsky and Dean, 2012

- This text is available for purchase in hard copy at the De Anza College Bookstore or for **FREE** downloading at: <http://cnx.org> or <http://kno.com> as either a download or free interactive text. Access the text by text title, *Collaborative Statistics*. You may download the text for free onto your computer


and print out the pages you want. (Note: If you plan on printing the entire book, it's less expensive to purchase the hard copy at the Bookstore or online.)

- There are also copies of the text on reserve in the library.

Other Required Materials:

- **Bring to class daily: PENCILS, ERASER, RULER, SMALL STAPLER, 4 spare AAA calculator batteries.**
- **4 Scantrons** (3 midterms and final exam) – thin green (882-E) or brown (#2052) from bookstore. *Your scantron must be flat with no bent corners, no wrinkling, no tears or other damage or points may be lost.*
- You will not be able to borrow ANY materials from the instructor.

Homework:

- Homework will be collected and graded through the online system, **WebAssign** <http://www.webassign.net>.
- 12 assignments at 10 points each; lowest 2 assignment grades dropped.
- Two attempts allowed for each problem.
- You can work on any homework assignment, save your work, stop, and come back to it later. **WebAssign** will keep track of your progress. But, you must submit your assignment by the due date/time for credit.
- **YOU CAN RETURN TO ANY ASSIGNMENT AND CHECK THE SOLUTION KEY AFTER THE DUE DATE/TIME FOR THE ASSIGNMENT.**
- Many additional practice problems are available in the text with answers in the back or online.
- **Getting started with WebAssign:**
 - Log in: <http://www.webassign.net/>
 - Click on: 
 - Fill in three boxes with class code.

TAKE CARE - USE THE CLASS CODE FOR YOUR CLASS SECTION!

- Section 01 (7:30 am class):
- Section 06 (9:30 am class):
- Section 14 (11:30 am class):
- First and last name – **Use your OFFICIAL STUDENT REGISTRATION NAME.**
- Pay the required fee using a credit card or debit card.
- There is a 2 week grace period in which you can use WebAssign for free; after the first 2 weeks of the quarter you will no longer be able to log in or use Webassign until you pay the fee. The work you've saved will remain in **WebAssign** . After you pay the fee, you will have access to your previous work even if you do not pay until after the 2 week grace period.
- **ALERT!!:** For **WebAssign** Homeworks #8, #9, #10, #11 and #12 **skip** the parts of any problems which require the uploading of a file. The point totals of these 5 assignments have been adjusted so that the total assignment scores will still be 10 points without doing these parts.
THE SPECIFIC PARTS OF PROBLEMS YOU WILL SKIP ARE:
 - Homework #8 (chapters 8-9): #22g, 23g, 24g, 25g, 26g, 27g 28g, 29g
 - Homework #9 (chapters 9-10): #1g, 2g, 3g, 4g, 14g, 15g, 16g, 17g, 18g
 - Homework #10 (chapters 8-9-10): #5g, 6g, 7g, 16g, 17g, 18g, 19g, 20g
 - Homework #11 (chapter 12) #1f, 2g, and 3h
 - Homework #12 (chapter 11) #1g, 2g, 3g, 4g, 5g, 6g, 7g

Chapter Labs:

- 3 group lab projects at 20 points each; lowest lab grade dropped. Find labs on my website: <http://www.deanza.edu/faculty/hectorjanice/math10labs/index.html>
- **ONLY ONE lab report turned in by each lab group.**
- *If you are absent the day a lab starts in class for ANY reason, you receive a grade of 0; one such grade of 0 for a lab absence would then be dropped as your lowest lab grade.*
- Labs will not be completed in class. Lab groups will also work together outside of class to finish labs.
- After forming a group, exchange names, email and phone contact information.
- You are expected to answer **ALL** word problems and questions with complete, well-written sentences. Answers must be typed in between questions. The labs are formatted as word documents so you can easily type in your answers. **PROOF-READ YOUR LAB CAREFULLY!**
- **LABS MUST BE ON THE FRONT DESK BY THE OFFICIAL START TIME OF CLASS TO BE GRADED. No Labs will be accepted late – after the official start of class.** You will not be given time to gather papers or staple your report.
- **Each member of a lab group should be prepared, if necessary, to turn in a completed group lab report when due.** Do not rely only on one member to turn in the group lab report.
- Labs may be turned in early before the due date.
- Labs will not be graded unless they are **STAPLED** (no doggy-ears/ paper clips).
- The 2 page lab grading outline found on my website must be the first two cover pages stapled to your lab report. **READ both pages carefully before starting your lab projects.** Points will be lost if these 2 pages are not attached.

Quizzes:

- 6 quizzes at 20 points each, lowest quiz grade dropped. Tentative testing days on class calendar. Any changes will be announced in class.
- **NO MAKE-UP QUIZZES.** *If you are absent for a quiz for ANY reason, you receive a grade of 0; one such grade of 0 for a quiz absence would then be dropped as your lowest quiz grade.*
- **Required:** pencils, erasers, ruler, calculator, 4 spare AAA calculator batteries.
- **Permitted:** **ONE** 2-sided 8 ½" x 11" page of **hand-written** notes allowed. If English is a second language, a print (not electronic) English translation dictionary is also allowed.
- **Quizzes are based closely on homework & classwork. You need to do homework thoroughly & completely and work attentively in class to prepare for quizzes.**
- Most quiz questions will require you to write out your answers and show your work. Quizzes must be worked out **NEATLY** or points will be lost. Quizzes **WORKED OUT with PEN** will not be graded.
- Points will be deducted from quizzes worked on after the class is told to stop and put down pencils.
- **STUDENTS WHO REVIEW PRACTICE QUIZZES ONLINE & IN OTHER INSTRUCTOR'S WEBSITES ARE MUCH MORE LIKELY TO EARN HIGHER QUIZ GRADES.**

Midterm Exams and Final Exam:

- **Midterms:**
 - 3 **MIDTERM** exams at 100 points each. The lowest midterm grade will be replaced by your grade on the Final Exam, if better. Tentative testing days on class calendar. Any changes will be announced in class.
 - **NO MAKE-UP MIDTERMS.** *If you are absent for a midterm for ANY reason, you receive a grade of 0; one such grade of 0 for a midterm absence would then be replaced by your Final Exam grade.*
 - **Required:** scantron, pencils, erasers, ruler, calculator, 4 spare AAA calculator batteries.
 - **Permitted:** **ONE** 2-sided 8 ½" x 11" page of **hand-written** notes allowed. If English is a second language, a print (not electronic) English translation dictionary is also allowed.

- **Final Exam:**
 - **2 hours; mandatory & comprehensive:** includes all material and chapters covered during the quarter. The time and date for the final exam can be found on the class calendar or check the final exam schedule on the De Anza College website: <http://www.deanza.edu/calendar/>.
 - **Required: scantron, pencils, erasers, ruler, calculator, 4 spare AAA calculator batteries.**
 - **Permitted: TWO 2-sided 8 ½” x 11” pages of hand-written notes allowed.**

- **General Information For All Exams:**
 - All exams are multiple-choice. Midterms have 21 questions; Final Exam has 42 questions.
 - Bring a half-page green scantron (#882-E) or brown scantron (#2052) from the bookstore. **No other scantron may be used.** *Your scantron must be flat with no bent corners, no wrinkling, no tears or other damage or points may be lost.*
 - **ESL:** If English is a second language, a print (not electronic) English translation dictionary is allowed.
 - Come with all supplies (scantron, pencils, erasers, calculator, batteries) to take exams. **If you do not have the necessary materials to take an exam, you may ask other classmates for supplies ONLY IF you arrive before the official start time of the exam. After the official start time of the exam, even if you are missing any supplies, YOU MAY NOT talk to, communicate with, or disturb another classmate. You will need to leave class to obtain the supplies on your own before taking the exam. Students who talk to, communicate with, or disturb another classmate may lose their exam and receive a “0” exam grade.**
 - **STUDENTS WHO START STUDYING SEVERAL DAYS EARLY FOR EXAMS & TRY SAMPLE EXAMS ONLINE & IN OTHER INSTRUCTOR’S WEBSITES ARE MUCH MORE LIKELY TO EARN HIGHER EXAM GRADES.**

Participation/Activities:

- 10 - 100 points of your grade will be determined from:
 - Individual and group activities, finished both in class and outside of class
 - On-time attendance and remaining for entire 50-minute class periods
 - Being prepared with required supplies (calculator, pencils, eraser, ruler, stapler, 4 spare AAA batteries)
- Activities/worksheets can occur in class anytime during the quarter, and may be unannounced or may be announced ahead of time. Some items will be done as part of the classwork for that day, and cannot be made up.
- If you miss a classroom activity that is to be worked on at home, then it must be turned in at the official start time of class on its scheduled due date to receive credit. No late work accepted.

Grading:

- You can access your final course grades by logging into the De Anza website, <http://www.deanza.edu/registration/myinfo.html> with your student ID number. Due to privacy issues, you will not be able to obtain any information on grades by email and I cannot respond to such requests.

<u>Category</u>	<u>Points</u>
3 Midterm Exams @ 100 pts each Lowest midterm grade replaced by Final Exam grade, if better	300
Final Exam (mandatory)	100
6 Quizzes @ 20 pts each, lowest grade dropped	100
3 Labs @ 20 pts each, lowest grade dropped	40
12 Homework sets (WebAssign) @ 10 pts each 2 lowest grades dropped	100
Participation/Activities	10 - 100
TOTAL POSSIBLE POINTS	650 - 740

<u>Course Grade</u>	<u>Total Percent of Course Points</u>
A	90%-100%
B	78%-89.9%
C	65%-77.9%
D	55%-64.9%
F	0%-54.9%

Class Attendance:

- **Class attendance EVERY DAY is essential to student success in math. You are expected to attend all classes, arrive on time and stay for the entire class. In particular, ALWAYS STAY after finishing a quiz as we will continue discussion in the remaining class time.**
- I will take roll during the first two weeks of class.
- **Late arrivals or early departures are disruptive and will be counted as a half absence. Note: Any arrival after the official start time of the class IS A LATE ARRIVAL.**
- **Arrive on time.** Leave extra time to avoid traffic and parking problems. If on rare occasions, you do arrive late or must leave early, **sit near the door** so you do not disturb class. If you disrupt class you may be asked to leave immediately, resulting in an absence for that day.
- **During the first two weeks, if you arrive after roll is taken, you must let the instructor know immediately AFTER CLASS THAT SAME DAY that you arrived late, otherwise you will be marked down for a full absence.**
- **If you have two full absences during the first two weeks, you will be dropped from the class.**
- **NO WORK** (labs, take-home quizzes, etc.) may be handed in late after the official start time.
- Note: **You are responsible for keeping up with class assignments & labs and for being aware of schedule changes even when absent. Remember, the class calendar is ONLY A TENTATIVE schedule. Schedule changes will be announced in class.** If you miss class, you will need to contact your classmates for notes and information regarding the material you missed. Obtain phone numbers or email addresses of other students to contact if you are absent to get notes, etc. I will not repeat lectures during office hours, or any other time. If you are absent, read the text and go to the tutorial center first; then come to me if you still have specific questions.

Academic Integrity/Cheating:

- **All students are expected to exercise academic integrity throughout the quarter.**
- Cheating and academic dishonesty are not tolerated. Students involved in cheating – either receiving or providing information – on any quiz or exam will be reported to the dean and may be expelled from the course for the first offense. At minimum, the score for that quiz/exam/assignment/lab will be "0". 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 or continuing to write/erase on exams or quizzes after the time for the exam/quiz has ended. 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 during an exam or quiz is considered cheating.
- During testing, your eyes must always be focused on your own paper, not looking around the room.

Class Rules, Conduct, Cell Phones etc:

- You will often work in pairs or small groups. Please be respectful of each other's ideas.
- **Respect other students' right to learn in a classroom environment that supports learning. No private conversations or disruptive behavior in class.**
- All electronic devices (cell phones, ipods, ear pieces, etc.) except your calculator must be turned off and put away out of sight during class. Absolutely no noise from them!
- **CELL PHONES:** In particular, turn off all cell phones **COMPLETELY** (not just set to vibrate) and put away before class. If a cell phone is used or goes off during class, you may be asked to leave class for that day. **DURING GRADED ACTIVITIES/QUIZZES/EXAMS, if your cell phone is used,** or is visible or goes off during an exam or quiz, your paper may be taken away from you and may have points deducted or receive a "0" grade.
- If you have special circumstances where you need to leave your cell phone on vibrate, you need to contact the instructor at the beginning of class, before your cell phone goes off.

Standards of Work:

- **College level work is expected in this class.**
- Work is graded for both accuracy and quality of work.
- Work must be **NEAT, LEGIBLE, WELL-ORGANIZED, AND ORDERLY.**
- When work/explanation is requested, 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 easily read or understand your work, if necessary details, work, or interpretations are missing, if work is not logically presented in an easily understandable manner, or if work is shown but is incorrect and/or not consistent with your answer.
- Interpretation is crucial in statistics: when interpretations, conclusions or explanations are asked for, you must use **COMPLETE SENTENCES** that explain concepts and conclusions in the **CONTEXT** of the problem, not just in generalities.
- **TURNING PAPERS IN:** show your full name as **LAST NAME, FIRST NAME**; if there's more than one page of work, you must **staple all pages together**, otherwise your work will not be graded.

Math and Science Tutoring(Located in Room S-43):

- Tutors are available in S43, the Math and Science Tutoring Center.
- **Tutoring time is limited! Go to S-43 to sign up for tutoring EARLY in the quarter.**
- Students are encouraged to form study groups. Go to S43 for help in creating a group with a tutor.

Topics Which will be Skipped:

- Ch 3: Venn diagrams, Ch 4: Poisson and Hypergeometric Distributions, Ch 7: The Central Limit Theorem for Sums, Ch 11: Test of One Variance, Ch 13: All skipped

IF YOU NEED HELP IN THIS CLASS:

- **CHECK THE MATH TUTORIAL CENTER (S-43) for FREE INDIVIDUAL, DROP-IN or GROUP TUTORING.** For current hours and information, use the following link:
<http://www.deanza.edu/studentuccess/tutorial/mathandsciencetutorialcenter/index.html>
- NOTE: Availability of free tutoring is not always guaranteed – depends on tutor/funding availability
- **SEE THE INSTRUCTOR DURING OFFICE HOURS.**
- **FIND A STUDY 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.
- **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.**
- You probably need this class to transfer. Not doing the work and/or not getting help early enough may endanger your transfer plans which may be delayed if you don't pass the class.
- If you wait until you are behind, you will have a great deal of difficulty catching up. Classes taken on the quarter system move quickly.

Other Useful Information:

- **For a wealth of information --- help with understanding concepts, video instructions, sample quizzes and exams, TI calculator instructions and MUCH, MUCH, MORE browse the following WEBSITES (Yes, this will take time, so start early!).**
- Exam/Quiz Practices (Prof. Bloom): [http://faculty.deanza.edu/bloomroberta/stories/storyReader\\$107](http://faculty.deanza.edu/bloomroberta/stories/storyReader$107)
- More practice exams (Prof. Plum): [http://faculty.deanza.edu/plumkathryn/stories/storyReader\\$38](http://faculty.deanza.edu/plumkathryn/stories/storyReader$38)
- More Practice quizzes/exams (Profs. Illowsky and Dean) at either link below:
<http://cnx.org/content/col10586/1.2> or <http://sofia.fhda.edu/gallery/statistics/exams.html>. *Use Dean and Illowsky's practice quizzes, identified by chapter, to review for quizzes and midterm exams. Use their practice exams to review for the final exam. Take care when using the online midterm exams for reviewing for midterms as the chapters tested in online midterm exams may differ from the chapters tested in our midterms.*
- Practice final exams: <http://cnx.org/content/m30945/latest> ; <http://cnx.org/content/m30993/latest>
- There is also a wealth of **online resources from many other Math 10 instructors** at De Anza:
 - Online video lectures: <http://cnx.org/content/m18746/latest/#videolectures>
 - Prof. Roberta Bloom: <http://faculty.deanza.edu/bloomroberta/>
 - Prof. Barbara Illowsky: <http://faculty.deanza.edu/illowskybarbara/>
 - Prof. Kathryn Plum: <http://faculty.deanza.edu/plumkathryn/>
 - Prof. Susan Dean: <http://faculty.deanza.edu/deansusan>