

Math 10: Elementary Statistics – Fall 2014

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Welcome to Elementary Statistics. This is a **demanding**, but rewarding class. This section is a **distance learning** section, with **MANDATORY** on-campus exams. This means that you **LEARN THE MATERIAL ON YOUR OWN** via Catalyst. You must be an independent learner to succeed in this online section. Also, if you cannot commit to a minimum of 15 hours per week of study, then you should take this class in a quarter when you have the time. This is also a collaborative class. Get to know your classmates and work with up to three other students on the lab and projects, submitting one lab or project with all group members names.

Student Learning Outcomes (what you should be able to demonstrate by the end of the course):

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.

READ THROUGH THE ENTIRE SYLLABUS SO THAT YOU ARE FAMILIAR WITH THE CLASS.

Prerequisite: Passing grade (C or better) in Intermediate Algebra or placement exam; Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language equivalent courses

Book: Introductory Statistics (2014, yellow cover) by OpenStax College
Note: This text is available for purchase in hard copy at the De Anza College Bookstore or for **FREE** downloading at: <http://openstaxcollege.org/textbooks/introductory-statistics/get> as either a download or free online. You can also buy an iPad interactive version for \$4.99. You may 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.)

Related Materials: TI-83 PLUS or TI-84 graphing calculator preferred (TI-89 are acceptable, but I will only teach the use of the TI-83 and TI-84). You can borrow TI-83 PLUS/84 CALCULATORS a few hours at a time at the De Anza library.

Other useful information: Look through the websites for Roberta Bloom (<http://faculty.deanza.edu/bloomroberta>), Kathryn Plum ([http://faculty.deanza.edu/plumkathryn/stories/storyReader\\$38](http://faculty.deanza.edu/plumkathryn/stories/storyReader$38)) and Susan Dean (<http://faculty.deanza.edu/deansusan>) for a wealth of information – help with understanding concepts, sample quizzes and test questions, labs, TI calculator instructions and MUCH, MUCH, more.

Quizzes: Online quizzes are to be taken through Catalyst. There are 13 quizzes. Quizzes will test your understanding and completion of the homework problems. You will need to do the homework thoroughly and completely to do well on the quizzes. Quizzes close at 11:30 pm on either Tuesdays or Sundays. Check the Catalyst calendar carefully. I drop two quiz scores when calculating your final grade. These two drops take into account any technical difficulties you may have.

Labs & Projects: Labs & projects make use of the calculator. Labs & projects may be done individually or in groups of up to 4 students with one lab turned in per group. You have two options for turning in labs & projects: email them to me or turn in a hard copy to ME personally (NOT at the Distance Learning Center) at exams. You may email items early. I drop 1 lab.

Homework: The purpose of homework is to help you learn the material in the course. You are expected to do each chapter "Practice" before attempting the homework. The answers for odd problems are in the back of the printed text book and after the practices online. Do the problems in the text and check those answers in the back of the text or online. The graded homework is inside WebAssign. WebAssign costs \$33. If you have a Financial Aid Bookstore Voucher, you can get the access code with that. If you have questions on the homework, post your questions inside Discussions within Catalyst so that classmates or I can help you. PLEASE answer your classmates' questions. I drop two scores at the end.

Exams: 3 exams will be given: October 15, November 5, and November 26, 6:30 – 7:30 pm, MLC 260. Each exam consists of 21 multiple choice questions. Bring a small brown scantron (#2052 at bookstore). No make-ups are given, but you may take the exams early. Exams are closed book. Students may bring to the exam one 8 ½" x 11" page (both sides) of notes, a calculator, and, if English is a second language, an English translation dictionary.

Final Exam: A two-hour comprehensive exam will be given on December 10, 6:30 – 8:30 pm. The exam consists of 42 multiple choice questions. If you miss the exam without contacting me, you will receive an F for the course. Bring a small, brown scantron (#2052). Students may bring 2 pages (both sides) of notes to the final.

Attendance: Attendance is required via participating online. I will drop any student who has not logged onto the Catalyst course by 11:55 pm on October 4, 2014. At the end of Week 3 and Week 8, I MAY drop/withdraw any student who has not logged into Catalyst in over 14 days. If you want to be dropped, however, it is your responsibility to drop the course by the published dates.

		Lowest percentage for:		
Grade:	Exams (3 @ 100)	300 pts. ***	A: 94%	A – : 90%
	Projects (1 @ 50)	50 pts.	B+: 86%	B: 81%
	Quizzes – online (13 @ 10)	110 pts.	C+: 74%	C: 70%
	Labs (4 @ 30)	90 pts.	D+: 63%	D: 57%
	HW (13 @ 10)	110 pts.	F: 0	D – : 55%
	Online Introduction	10 pts.		
	Midterm Reflection	10 pts.		
	Final Exam	100 pts.		
	TOTAL	780 pts.		

Miscellaneous

- Chapter videos and podcasts to download are available on my web site or through De Anza's iTunes site
- Late papers will not be accepted.
- Take-home papers will not be graded unless they are STAPLED (no doggy-ears or paper clips) before class or emailed as a Word or pdf file. All papers turned in must be NEAT to earn full credit.
- CELL PHONES and other electronic devices (except your calculator) must be turned off and put away during class. If one goes off during an exam, you risk having your paper taken from you. You may not use your computer during exams.
- Tutors are available in S43, the math and science tutoring center. The tutoring center offers tutor-led study groups and tutors as assistants in the labs (S42 and S48). Go to S43 to sign up for tutoring.
- Students are encouraged to form study groups. Go to S43 for help in creating a group with a tutor.
- ***At the end of the quarter, if the final exam is the lowest exam, it will count as 1 exam. Therefore, the final exam and all other exams will count. If one of the 3 midterm exams is the lowest or missed, then that midterm score will be replaced by the final score. Therefore, the final exam will count twice. In summary, you will have a total of 400 exam points.
- Your grade is based on points and not a "curve."
- I expect you to answer word problems and questions with complete English sentences.
- CHEATING WILL NOT BE TOLERATED. If anyone is caught cheating, he or she will receive an F for the course and reported to the appropriate college officials. Penalties include the possibility of being expelled from the college.

Student Services:

<http://www.deanza.edu/student-services/>

De Anza College has many support services to help you succeed in college. This web site leads you to information about financial aid, child care, counseling, academic support, disability support, student activities, and other services that are here for you. The physical location for most of these services is in the Student Community Services Building.

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 five days notice of the need for accommodations. Students with disabilities can obtain a TAV form from their DSS counselor (864-8753 DSS main number) or EDC advisor (864-8839 EDC main number).

Dropping the Course:

Students who wish to drop/withdraw may do so online or at Admissions and Records. The last day to drop with no record is October 6, 2013. The last day to drop with a W is November 14, 2014. This is YOUR responsibility. My hope is that you stay in, work hard, and succeed!

Topics to Skip

- Ch 3: Venn diagrams
- Ch 4: Geometric, Poisson, Hypergeometric Distributions
- Ch 5: Conditional probability for the Uniform Distribution
- Ch 7: Central Limit Theorem for Sums
- Ch 11: Test of One Variance