Math10.22 & Math 10.61: Elementary Statistics, Winter 2016

Instructor	Office	Phone	Email	Office Hours
Frank Snow	S76h	864-8999 x3354	snowfranklin@deanza.edu	M 12:30 – 1:30 PM W 5:30 - 6:30 PM

Welcome to Elementary Statistics. This is a demanding, but rewarding class. If you cannot commit to a minimum of 10 hours per week of study and group work outside of class, then you should take this class in a quarter when you have the time. This is also a collaborative class, so get to know your classmates and work with up to three other students on the labs, submitting one lab 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 GREENSHEET 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.

Text: OpenStax College, Introductory Statistics, OpenStax College.org 2013. Available for **FREE** downloading at: http://openstaxcollege.org/textbooks/introductory-statistics

Online view in Cnx   http://cnx.org/content/col11562/latest/

This text is also available for purchase in hard copy at the De Anza College Bookstore.

There are also copies of Introductory Statistics on reserve in the library media center.

I strongly suggest that you do not buy the hardcopy version of the text until you have tried the FREE online version.

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.) In the De Anza College Bookstore you want the red version 1.40.

Web Assign: Your graded homework is through Web Assign. See below for more information. The cost for Web Assign is about $30.

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

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.

Laptop computers, Ipads, or other electronic devices may be used in class only on days when working on group lab projects. Cell phones or other devices may NEVER be used as a calculator in class or on a quiz or exam. Students may NOT share calculators for quizzes or exams.

Don't wait until you are drowning to get help. Quarter system classes move quickly. Get help as soon as you have difficulty, while there is still enough time to catch up and improve. If you wait until you are behind, you will have a great deal of difficulty catching up. 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: **http://www.deanza.edu/studentsuccess/mstrc/**
- Free online tutoring 7 days a week, 24 hours a day: Just login to MyPortal, go to the Students tab, and find the Smarthinking link. For more information, go to **deanza.edu/studentsuccess/onlinetutoring/**
- **See the instructor during office hours.**

- **Find a study partner or group** and work together consistently throughout the quarter. Working with somebody else helps both students understand the material better.

Other useful information: Look through the websites of
Prof. Bloom: (http://faculty.deanza.edu/bloomroberta)
Prof. Dean: (http://faculty.deanza.edu/deansusan)
Prof. Illowski: (http://faculty.deanza.edu/illowskibarbara)
for a wealth of information – help with understanding concepts, sample quizzes, exams, finals and test questions, labs, TI calculator instructions and MUCH, MUCH, more.
The following link is a step-by-step video for working through an ANOVA problem (Chapter 13):
https://www.youtube.com/watch?v=JZ-_XQbrdPY

Homework: The purpose of homework is to help you learn the material in the course.
There is "Try It" and "Homework" in the book (hardcopy or online). The answers for odd problems are in the back of the printed text book and after the questions online. You should do at a minimum the odd problems (with answers in the book) in the book chapter "Try It" and "Homework" before attempting the Web Assign homework.
The Homework on Web Assign is graded and becomes part of your grade. The graded homework will be available online at Web Assign.

TO ACCESS Web Assign ONLINE HOMEWORK (will be available Thursday): http://www.webassign.net
Guide: Web Assign Student Quick Start
For registered students:
Your default user name is: your **lastname.firstname   NOTE: This is what your registration at De Anza shows as first and last names**.
The institution is: deanza; Your default password is: statistics.
Please change your password as soon as you sign in the first time.
There is about a $30 charge for Web Assign. There is a two-week grace period for Paying for Web Assign: You can pay by credit card or PayPal online. Or, you may use a Financial Aid voucher or pay cash at the De Anza College Bookstore to get an access code. **Skip all Web Assign problem parts requiring uploading a file.**

Quizzes: Quizzes will be given according to the schedule below and will be about 20 minutes in length. Quizzes are designed to test your understanding and completion of homework problems. The calculator is necessary for most quizzes. You will need to do the homework thoroughly and completely in order to be able to do understand and complete quizzes and exams in the time allowed.

Technology Related Activities (Labs & Projects): Labs & projects make use of the calculator. TRA's must be done in groups of up to 4 students with one lab or project turned in per group. You may turn in items early.

Exams: Three exams will be given. See the Calendar below for the date and time. Each exam consists of 21 multiple choice questions. Bring a small brown Scranton (#2052 at bookstore). No make-ups are given, but you may take the exams early if you make arrangements with me. 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 (hard copy only).

Final Exam: A two-hour comprehensive exam will be given. **Note the final 10.22 is on Monday 3/21 at 1:45pm. The final for 10.61 is on Wednesday 3/23 at 6:15pm**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 Scranton (#2052) . Students may bring 2 pages (both sides) of notes, a calculator, and, if English is a second language, an English translation dictionary (hard copy only) to the final.

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Attendance: You are expected to be present, prompt and prepared to ask questions about homework at all classes. (Please call and leave a message or email me if you are going to be absent). If you miss five (5) 50 min classes (1 week worth) or the equivalent (250 minutes) you must drop the course. It is your responsibility to drop the course (see last page for procedure), if necessary. Please inform me by email if you do.
You must be in class every day the class meets the first two weeks of class or you will be dropped. If you want to be dropped after that, it is *your* responsibility to drop the course by the published dates.

				Lowest percentage for:

Grade:
Item		Points
Exams	(3@100)	300 pts. *
TRA project	(1@50)	40 pts.
Quizzes	(best 5@20)	100 pts.
TRA Labs	(3@30)	90 pts.
WA HW	(best 12@10)	120 pts.
Final Exam		100 pts.
TOTAL		**750 pts.**

Lowest percentage for:
A: 93% (697)   A – : 90% (675)
B+: 86% (645)   B: 81% (607)   B – : 78% (585)
C+: 74% (555)   C: 66% (495)
D+: 63% (472)   D: 57% (427)   D – : 55% (412)

Miscellaneous:

- Bring your book and calculator to every class. If you downloaded the book to an electronic device (laptop, tablet, net book, cell phone, etc.) you may use book during class but not during quizzes or exams.
- You may not use an electronic device other than a calculator during quizzes and exams.
- Chapter videos and podcasts to download are available De Anza's iTunes site or in WebAssign. (Note: in WebAssign, the videos are under "Resources" and are the fastest way to access.)
- 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. All papers turned in must be NEAT to earn full credit.
- CELL PHONES, iPods, and other electronic devices (except your calculator or laptop) must be turned off and put away during class. If one goes off during a quiz or 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. 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 higher than the lowest Exam, the Final grade will replace that lowest Exam grade. 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 be reported to the appropriate college officials. Penalties include the possibility of being expelled from the college.

Student Services: http://www.deanza.edu/studentservices/
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.

Dates for Adding/Dropping the Course:
Last day to add:	January 16, 2016
Last day to drop with refund:	January 17, 2016
Last day to drop with no record:	January 18, 2016
Census Day:	January 20, 2016
Last day to drop with a W:	February 26, 2016.

If you want to drop/withdraw, it is your responsibility to do so.
Topics to Skip Ch 3: Venn diagrams; Ch 4: Pascal, Poisson, Geometric, Hypergeometric Distributions; Ch 5: Conditional Probability with Uniform Distributions; Ch 7: Central Limit Theorem for Sums; Ch 11: Test of One Variance