

## Math 10: Elementary Statistics – Winter 2016 (Hybrid)

<b>COURSE</b>	<b>DAY</b>	<b>TIME</b>	<b>ROOM</b>	<b>INSTRUCTOR:</b> Kathy Plum
Math 10-66Z (01267)	T	6:30 – 8:20 pm	S46	
<b>OFFICE HOURS:</b> 11 AM – 12:15 PM TTh 10 – 10:50 AM W				<b>OFFICE ROOM:</b> S76H
<b>Website:</b> <a href="http://deanza.edu/faculty/plumkathryn">deanza.edu/faculty/plumkathryn</a>				<b>E-MAIL:</b> <a href="mailto:plumkathryn@deanza.edu">plumkathryn@deanza.edu</a>

**Welcome** to Elementary Statistics. This is a **demanding**, but rewarding class. This section is a distance learning section, with one required attendance weekly class meeting. This means that you **LEARN THE MATERIAL ON YOUR OWN** via Catalyst.deanza.edu and come to class to ask homework questions, do labs, and take quizzes and exams. 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. You will be expected to work with your classmates both inside and outside of class (no exceptions).

**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 theories.
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: EWRT211 and READ211 (or LART211), or English as a Second Language equivalent courses

**Book:** Introductory Statistics by Illowsky and Dean  
Note: This text is available for **FREE** downloading at: <http://openstaxcollege.org/textbooks/introductory-statistics>

**Related Materials:** TI-83 PLUS or TI-84 graphing calculator preferred (TI-86 or 89 are acceptable, but I will only teach the methodologies using the TI-83 and TI-84); small stapler; small pencil sharpener; small ruler.

**Other useful information:** Look through the website for Roberta Bloom (<http://faculty.deanza.edu/bloomroberta>) for a wealth of information – help with understanding concepts, sample quizzes and test questions, labs, TI calculator instructions and MUCH, MUCH, more.

**Quizzes:** Quizzes (which are taken online via Catalyst) 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 are due the day indicated in Catalyst. Your 2 lowest on-line quizzes will be dropped. **There are no make-ups for missed quizzes.**

**Labs:** Labs make use of the calculator. Bring a copy (printed or on lap top) of the assignment with you to class. You must be in class on the day a lab is started to get the data and credit for the labs. Labs WILL be done in groups of 3 or 4 students. If you miss class on the day a lab started, you will not be allowed to turn in the lab on your own or work with a group. In most cases, you will not be able to complete the labs in class. **No make-ups or late papers will be accepted.** You may turn them in early. One lab will be dropped.

**Projects:** Two projects will be done during the quarter. The first will be done in a group of 3 or 4 students, the second in pairs. Specifics will be discussed in class.

**Homework:** The purpose of homework is to help you learn the material in the course. Graded homework is done in WebAssign (<http://webassign.net>). The cost for using WebAssign is about \$30. I suggest you do the odd problems at the end of the chapter in the book before attempting the WebAssign problems. The WebAssign homework for each chapter is due on the day indicated in Catalyst.

**Class Activities:** You should complete the Chapter Recap (available on my website) before each class session. We'll go over the recap in class, after which you will turn it in for grading. Your lowest two scores will be dropped. **No make-ups will be allowed.**

**Exams:** 3 exams will be given. Each exam consists of 21 multiple choice questions. You will need a brown scantron (#2052 at bookstore) for each exam. No make-ups are given. Exams are closed book. Students may bring to the exam one 8 1/2" x 11" page (both sides) of notes, a calculator, and, if English is a second language, an English translation dictionary. **No make-ups for missed exams.**

**Final Exam:** A two-hour comprehensive exam will be given. The exam consists of 42 multiple choice questions. If you miss the exam without contacting me, you will receive an F for the course. You will need a brown scantron (#2052). Students may bring 2 pages (both sides) of notes to the final.

**Attendance:** This class only meets once a week so please plan accordingly. Class attendance is essential to student success in math. You are expected to be present, prompt and prepared to ask questions about the assigned homework for all class meetings. Coming late to class is irresponsible, impolite and disruptive to your classmates and is not acceptable. However, even with the best of planning, 'life' gets in the way sometimes. It is better if you come in late, than to not show up. Students not in attendance when labs are started will not be allowed to make-up the lab. It is YOUR responsibility to drop the course should you decide to stop attending, DO NOT rely on me to do it for you. I will, however, drop any student who has not logged onto the Catalyst system by midnight April 19, 2012 whether you have been in class or not.

		<b>Lowest percentage for:</b>			
<b>Grade:</b>	Exams (5@ 100)	400 pts. ***	A+: 97%	A: 94%	A -: 90%
	Online quizzes (13 @ 10)	100 pts. (lowest 3 dropped)	B+: 86%	B: 81%	B -: 78%
	Labs (4 @ 30)	100 pts. (lowest 1 dropped)	C+: 74%	C: 66%	
	Projects (1@ 50, 1@ 25)	75 pts. (both count)	D+: 63%	D: 57%	D -: 55%
	Ch. Recaps (13 @ 8)	80 pts. (lowest 3 dropped)	F: 0		
	WebAssign HW (13@10)	100 pts. (lowest 3 dropped)			

#### Miscellaneous

- Bring your book and calculator to every class. If you downloaded the book to your laptop, you may use your laptop during class but not during exams.
- Papers are considered late if not turned in by 6:35 pm on the day they are due and will not be accepted.
- All papers turned in must be NEAT and stapled together 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. Absolutely no noise from them! You MAY NOT use your computer during exams or in-class quizzes.
- Tutors are available in S – 43, 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 S-43 to sign up for tutoring.
- Students are encouraged to form study groups. Go to S – 43 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.
- 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.

#### Dropping the Course: from Admissions and Records

It is your responsibility to pay attention to college drop or withdraw dates.

#### Topics to Skip

- Ch 3: Venn diagrams
- Ch 4: Poisson, Geometric, Hypergeometric Distributions
- Ch. 5: Conditional probability in Uniform Distribution
- Ch 7: Central Limit Theorem for Sums
- Ch 11: Test of One Variance
- Ch. 13: Test of Two Variances

**Official calendar and weekly reminders are in Catalyst. This is provided for quick reference ONLY.**

<b>Date</b>	<b>What's happening on Tuesday</b>	<b>What to bring with you.</b>	<b>Stuff due or to do</b>
Week of Jan. 4	<ul style="list-style-type: none"> <li>Course intro including how to access the text, Catalyst, WebAssign, Jupitergrades.com.</li> <li>Chapter 1 Recap</li> </ul>	<ul style="list-style-type: none"> <li>Paper, pencil and positive attitude about learning statistics and probability.</li> <li>Copy of Chapter 1 Recap</li> </ul>	<ul style="list-style-type: none"> <li>Make sure you access Catalyst, WebAssign (WA) before 1/8.</li> <li>Ch. 1 WA due Friday.</li> <li>Quiz 1 due next Mon.</li> </ul>
Week of Jan 11	<ul style="list-style-type: none"> <li>Chapter 2 Recap</li> <li>Groups will be formed to do <b>Project 1.</b></li> </ul>	<ul style="list-style-type: none"> <li>Copy of the Ch. 2 recap</li> <li>Copy of Project 1</li> </ul>	<ul style="list-style-type: none"> <li>Ch. 2 WA due Friday</li> <li>Quiz 2 due next Mon.</li> </ul>
Week of Jan 18	<ul style="list-style-type: none"> <li>Chapter 3 Recap</li> <li>Review for Exam 1</li> </ul>	<ul style="list-style-type: none"> <li>Copy of the Chapter 3 Recap.</li> </ul>	<ul style="list-style-type: none"> <li>Ch. 3 WA due Friday.</li> <li>Quiz 3 due next Mon.</li> </ul>
Week of Jan 25	<ul style="list-style-type: none"> <li><b>Exam 1</b> takes place during the first hour of class.</li> <li>Chapter 4 Recap.</li> </ul>	<ul style="list-style-type: none"> <li>Photo ID, Pencil, eraser, calculator, Scantron and one sheet of notes.</li> <li>Copy of the Chapter 4 Recap.</li> </ul>	<ul style="list-style-type: none"> <li>Project 1 due.</li> <li>Ch. 4 WA due Friday.</li> <li>Quiz 4 due next Mon.</li> </ul>
Week of Feb 1	<ul style="list-style-type: none"> <li>Chapter 4 Lab</li> <li>Chapter 5 Recap</li> </ul>	<ul style="list-style-type: none"> <li>Copy of the Ch. 5 recap.</li> <li>Copy of Ch. 4 Lab</li> </ul>	<ul style="list-style-type: none"> <li>Ch.5 WA due Friday.</li> <li>Quiz 5 due next Mon.</li> </ul>
Week of Feb 8	<ul style="list-style-type: none"> <li>Chapter 6 &amp; 7 Recap</li> <li>Review for Exam 2</li> <li>Groups will be formed to do the <b>Ch. 6 Lab</b></li> </ul>	<ul style="list-style-type: none"> <li>Copies of the Ch. 6 &amp; 7 recaps.</li> <li>Copy of the Ch. 6 lab</li> </ul>	<ul style="list-style-type: none"> <li>Ch. 4 Lab due</li> <li>Ch. 6 &amp; 7 WA due Fri.</li> <li>Quiz 6 &amp; 7 due next Mon.</li> </ul>
Week of Feb 15	<ul style="list-style-type: none"> <li><b>Exam 2</b> will be taken during the first hour of class.</li> <li>Chapter 8 Recap</li> </ul>	<ul style="list-style-type: none"> <li>Pencil, eraser, calculator, Scantron and one sheet of notes.</li> <li>Copy of the Ch. 8 Recap.</li> </ul>	<ul style="list-style-type: none"> <li>Ch. 6 lab is due.</li> <li>Ch. 8 WA due Friday.</li> <li>Quiz 8 due next Mon.</li> </ul>
Week of Feb 22	<ul style="list-style-type: none"> <li>Chapter 9 Recap.</li> <li>Pairs will be formed to start <b>Project 2.</b></li> <li>Groups will be formed to do the <b>Ch. 9 Lab.</b></li> </ul>	<ul style="list-style-type: none"> <li>Copy of the Ch. 9 Recap.</li> <li>Copy of the Ch. 9 Lab</li> <li>Copy of Project 2.</li> </ul>	<ul style="list-style-type: none"> <li>Ch. 9 WA due Friday.</li> <li>Quiz 9 due Mon.</li> </ul>
Week of Feb 29	<ul style="list-style-type: none"> <li>Chapter 10 Recap</li> <li>Groups will be formed to do the <b>Ch. 10 Lab</b></li> <li>Review for Exam 3</li> </ul>	<ul style="list-style-type: none"> <li>Copy of the Ch. 10 Recap.</li> <li>Project 2 problem statement for my review.</li> </ul>	<ul style="list-style-type: none"> <li>Ch. 9 Lab due.</li> <li>Ch. 10 WA due Friday.</li> <li>Quiz 10 due next Mon.</li> </ul>
Week of Mar 7	<ul style="list-style-type: none"> <li><b>Exam 3</b> will be given during the first hour of class.</li> <li>Chapter 11 recap</li> </ul>	<ul style="list-style-type: none"> <li>Pencil, eraser, calculator, Scantron and one sheet of notes.</li> <li>Copy of the Ch. 11 Recap</li> </ul>	<ul style="list-style-type: none"> <li>Ch. 10 Lab due</li> <li>Project 2 is due.</li> <li>Ch. 11 WA due Friday.</li> <li>Quiz 11 due next Mon.</li> </ul>
Week of Mar 14	<ul style="list-style-type: none"> <li>Chapter 12 Recap</li> <li>Chapter 13 Recap</li> <li>Review for final</li> </ul>	<ul style="list-style-type: none"> <li>Copy of the Ch. 12 Recap.</li> <li>Copy of the Ch. 13 Recap.</li> </ul>	<ul style="list-style-type: none"> <li>Ch. 12 &amp; 13WA due Friday</li> <li>Quiz 12 &amp; 13 due next Mon.</li> </ul>
Week of Mar 21	<ul style="list-style-type: none"> <li>Final exam is from 6:15– 8:15 pm.</li> </ul>	<ul style="list-style-type: none"> <li>Pencil, eraser, calculator, Scantron and two sheets of notes.</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>