Fall 2015 Syllabus
Math 12 – Elementary Statistics
Sections # 89712, 89713, MTWTh 8:00-9:05 am, Room 609

Instructor: Veronica Lundquist
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Phone: (831)479-6420
Office: 710A
Office Hrs: M –Th 07:30 - 08:00 am in room 710A
M - Th 10:40 - 11:05 am in room 710A
M - W 12:15 - 12:40 am in room 710A

Student Learning Outcomes:
1. Analyze and organize a set of data using the techniques of descriptive statistics.
2. Analyze and develop the integrity, meaning, and mechanics of both the confidence interval and hypothesis testing reasoning processes using descriptive statistics and probability.
3. Evaluate certain inferential statistical problems and decide how to produce estimates of and decisions about certain population parameters using the confidence interval and hypothesis testing reasoning processes.

Prerequisite: This course is open to students who have earned a “C” or better in math 152 or 142 (or equivalent) or have been placed in a transfer level class by the Cabrillo Assessment exam.

Text: The required text is a free e-textbook this semester. You can access it at https://openstaxcollege.org/textbooks/introductory-statistics/get. I recommend that you download the entire .pdf so that you always have access to your book.

A print version is available for $33.50 for those that prefer that. You can order it via Amazon from seller "OpenStax College". Introductory Statistics, ISBN 1-938168-20-8.
Calculator: You are required to get any version of the TI-83 or the TI-84 calculator for this course. There are also several online sites that let you rent a calculator, which might be a good idea (usually around $9 per month). One such place is www.rentcalculators.com (use discount code: CC95003).

Handouts: You are also required to print out some worksheets/lecture notes to bring to class. These will be posted on my website.

Attendance: Since I introduce new material every class day, your attendance is vital to your success in this class. You are responsible for all material covered in class, whether or not you are present. If you miss a class, it is your responsibility to get the notes from a classmate and come prepared to the next class. If you have excessive absences, you may be dropped from the class. Plan to attend class regularly, arrive on time, and stay for the whole class. During the first two weeks of the semester I will drop students for lack of attendance, to give room to students on the waitlist. So if you have to miss a class during the first two weeks, it is crucial that you contact me.

Participation: During the semester, there are 20 participation points to be earned. These are points that you will get by participating in certain in-class activities. These activities may or may not be announced beforehand, so it is important that you don't miss classes. There are no make-up opportunities for these points.

Homework: Although your attendance is important, you will not learn math just by watching someone else do it. If you want to become good at anything, you must practice. The assigned homework problems are your opportunity to practice and absorb what you've seen in class. Homework will be assigned every class meeting and collected regularly. It is crucial that you keep up with your math homework so that you are ready to move on to the next topic the following class. Doing a little math homework every day result in better retention than if you do all the homework at once. Make sure you set aside a little time every day to do exercises and/or review old problems. You are encouraged to work together on the homework, but your work should be your own. Before starting your homework, make sure you carefully read the "Homework Rules and Guidelines" handout for more information.

Quizzes: There will be several 10-point quizzes given throughout the class. I will count the five best quizzes towards your grade. There are no make-up quizzes.

Labs: There will be several lab assignments throughout the semester, worth a total of 40 points. The assignments and their due dates will be established later in class.

Exams: There will be four midterms, worth a total of 300 points. If you are unable to attend class on the scheduled exam day, you have to contact me before the exam, so that we can make alternate arrangements. There are no make-up exams in this course.

Final Exam: There will be a 200-point comprehensive final exam on Monday, Dec 14, 7:00-9:50 am in our regular classroom.
**Grading:** I give no grades; you earn them. The grading scale below will be used to determine your letter grade. A pass/no pass option is also available for this course. By default, you are on the letter grade option. You have until October 3 to notify me, in writing or via email, if you want the pass/no-pass option. If you ever want to know your standing in the class, please just stop by my office or send me an email.

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<thead>
<tr>
<th>Tentative Point Totals</th>
<th>Grading Scale</th>
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<tbody>
<tr>
<td>Participation</td>
<td>20 pts</td>
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<tr>
<td>Homework</td>
<td>60 pts</td>
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<tr>
<td>Quizzes</td>
<td>50 pts</td>
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<tr>
<td>Labs</td>
<td>40 pts</td>
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<tr>
<td>Exams</td>
<td>300 pts</td>
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<tr>
<td>Final Exam</td>
<td>200 pts</td>
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<td><strong>Total</strong></td>
<td><strong>670 pts</strong></td>
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<td><strong>Participation</strong></td>
<td><strong>90-100% A Pass</strong></td>
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<tr>
<td><strong>Homework</strong></td>
<td><strong>80-89.5% B Pass</strong></td>
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<td><strong>Quizzes</strong></td>
<td><strong>70-79.5% C Pass</strong></td>
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<tr>
<td><strong>Labs</strong></td>
<td><strong>60-69.5% D No Pass</strong></td>
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<tr>
<td><strong>Exams</strong></td>
<td><strong>0-59.5% F No Pass</strong></td>
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**Dropping Classes:** If you plan on dropping the class, it is your responsibility to do so by using WebAdvisor on-line, or going to the Admissions and Records office.

**Teacher Contact:** Contact between student and instructor is important. If something is going on in your life that is affecting your progress in the class, please let me know.

**Student Accessibility:** Students needing accommodations should inform the instructor. As required by the Americans with Disabilities Act (ADA), accommodations are provided to insure equal access for students with verified disabilities. To determine if you qualify, or need assistance with an accommodation, please contact the Accessibility Support Center (formerly DSPS), Room 1073, 831-479-6379.

**Resources:**
- Yours truly, me. It is my job to help you learn mathematics and I love my job! I want you to succeed and I am willing to help whenever possible. Please do not hesitate to come to me if you need any extra help.
- The Math Learning Center (MLC) is located on the Aptos campus, room 1074. Here you can get free tutoring, you can borrow books and calculators, view math videos, use computers, study together with your classmates, etc.
- The Integrated Learning Center (ILC) is located at the Watsonville center. Here you can also get free tutoring in math, as well as study together with classmates.
Class information and rules:
  o Please respect the rights of your classmates to hear and learn from this
    classroom experience; turn off and put away cell phones and pagers before the
    beginning of the class, do not wander in and out of the classroom during class
    period, and refrain from talking to your neighbors when I am speaking.
  o When working with other class members, please be encouraging, positive, and
    helpful.
  o I expect you to actively participate in discussions and in-class assignments. Ask
    questions in class; chances are that others have the same question. If you have
    questions that pertain mainly to you, please ask them before or after class, or
    during my office hours.
  o Cheating will not be tolerated. It is the responsibility of the student to make it
    clear to me that he or she is not cheating; during exams and quizzes there
    should be no talking whatsoever, no use of any electronic devices other than
    scientific calculators, and no wandering eyes. Anyone who willingly allows
    his/her work to be copied will also be considered to be cheating. Any student
    caught cheating will receive a zero for the exam/quiz. A second offense will
    result in me dropping the student from the course. All cheating offenses will be
    reported.
  o No cell phone use of any sort is allowed in the classroom – including texting.
  o No use of any other electronic devices other than calculators are allowed in
    class, including ipods. If you prefer taking notes on a laptop, your laptop screen
    can only have math notes on it at any time. If I ever find out that you computer
    is used for anything else, you will lose your privilege of ever using the computer
    in class again.

Helpful Hints:
  o Do your homework regularly – not just before it is due.
  o Do your homework within 24 hours of class lecture.
  o Learning requires mistakes. Embrace your mistakes and learn from them.
  o Join or create study groups.
  o Use the MLC to get answers to your questions as you work on your homework.
  o It is crucial that you seek help when you don’t understand something.
  o Do not fall behind. Sometimes you might think it is hard to keep up, but it is
    harder still to catch up.
  o Keep a positive attitude.

Welcome to Math 12 !!!

“A statistician can have his head in an oven and his feet in ice,
and he will say that on the average he feels fine.”

This syllabus is subject to change. Should a change occur, it will be announced in class.