Math 12  
Spring 2015  
Section # 87721 and 87724

Instructor: Dave Reynolds  
website: [www.cabrillo.edu/~dreynolds](http://www.cabrillo.edu/~dreynolds)

Course Title: Elementary Statistics  
phone: 479-6499  
(email is better)

Class Meeting Times:  
email: dareynol@cabrillo.edu  
MTWTh 11:10-12:15, Room 825 (section 87721)  
MW 12:40 - 3:05, Room 825 (section 8724)

Office Hours: MTWTh 8:45-9:15, MTWTh 10:40-11:05 in Room 714A unless otherwise posted,  
Tuesday 12:30-2:30 in the STEM Center

Prerequisite: Math 152 or Math 142 or equivalent skills


Attendance: Attendance is required for the entire class period, every class period. You may be dropped  
for lack of attendance. There will be homework or in class work assigned at every class meeting.

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.

There is a large body of educational research which shows that active involvement with the material is the  
only way to gain true understanding of mathematical concepts. Listening to lectures does very little to  
help students with conceptual understanding of mathematics or to help them apply mathematics to real- 
life situations. Active involvement with the subject matter will bring positive results. With that in mind,  
students will be working together in groups frequently in class discussing problems together. Students  
are also encouraged to work together on homework assignments. Also, free tutoring is available at the  
Math Learning Center in Room 1074. Check with them for available tutors and times.

Evaluation: The final grade will be based on the following scale:

- 900 - 1000 = A
- 800 - 899 = B
- 700 - 799 = C
- 600 - 699 = D
- 599 or lower = F
**Tests:** There will be 3 midterm tests worth 150 points each, and 1 final exam worth 260 points. The final exam will be cumulative. The midterm examinations will each cover a specific section of the class. Tests should not be missed. Should you miss a test with a verifiable excuse, I will omit that test. In this case, your final exam will be worth 410 points. If you miss more than one exam, you will receive a score of 0 on the subsequent missed exams. There are no make-up tests. **(710 points)**

**Labs:** There will be 4 lab assignments due throughout the semester (one per testing period). Each will be worth 125 points each, for a total of **100 points.**

**Quizzes:** There will be 5 quizzes throughout the semester, each covering smaller portions of the class than the midterms. Each quiz will be worth 25 points. I will use your highest 4 quiz scores in calculating your final grade, so quizzes will be worth a total of **100 points** throughout the semester.

**Homework:** Homework will be assigned everyday in class. Homework will be due every time we take a quiz or test. Homework will be graded on mostly on completeness (meaning you do all of the problems and show all of the work). Homework needs to be done neatly and in an organized manner. If I cannot read your homework, I cannot grade your homework, and your score will be lower. Late homework will be accepted for a MAXIMUM of half credit. **Please staple your homework before you come to class.** Homework will be worth a total of **90 points** (9 assignments, 10 points each).

**Classwork:** Time permitting, every day in class I will assign certain problems to be worked out in groups. In situations where we have extra time, I will call on groups to present their solutions to certain problems to the rest of the class. Classwork is your chance to work with others (and with me present) so that you can practice concepts before you attempt your homework.

**Use of Technology:** A TI-83/84 Plus (or not plus is OK) is required. Students who use a different calculator must take responsibility for being able to complete the material. **You may not use a cell phone in class - use of a cell phone during a quiz or a test is considered cheating.**

**Academic Integrity:** Cheating will not be tolerated. While students are encouraged to work in groups on assignments, each student must turn in their own work. If a student is caught cheating on a test or a quiz, the student will receive a 0 on the assignment. A second occurrence will result in a failing grade for the course.

**Method of Instruction:** Classroom lecture and group practice.

**Course Expectations:** To succeed in this course, a student must:

1) Devote a minimum of 10 hours per week outside class to this course

2) Attend every class

3) Come to class prepared and willing to help classmates

4) Seek help from me or other students when necessary

5) Understand that assigned homework is the minimum necessary for success in this class – some students will require more practice than others.
6) Understand that studying for a mathematics test is not like studying for other classes – students must actually do problems to understand concepts.

Contact Information: The easiest way to get in touch with me is by email at dareynol@cabrillo.edu. You can also reach my office at 479-6499.

Accommodations
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 ACCESSIBILITY SUPPORT CENTER (Formerly DSPS), Room 1073, (831)479-6379.

Important Dates:

February 7: Last day to add class / drop class with a refund

February 8: Last day to drop without a “W” grade

February 13 - 16: Holidays, no classes

March 30 - April 4: Spring Break, no classes

April 25: Last day to drop with a “W” grade

Final Exams: May 18-23

Our Final: Section 87721 Wednesday, 5/20, 10-12:50

Section 87724 Monday, 5/18, 10-12:50

This syllabus is subject to change. Should a change occur, I will notify you in class.