

Math 142-0026/0044 Fall 2009
Elementary Statistics with Probability

Course Times/Location: Section 0026: TTh 9-10:50am MA105
Section 0044: TTh 12-1:50pm MA105

Instructor: Holly Kresch **Office:** MA116
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Office Hours: **On Campus:** TTh:11-11:30am and 2-3pm
Online: MW:8:30-9:30

Prerequisite: Math 120, Intermediate Algebra, or equivalent.

Text: Elementary Statistics, 11th edition, by Mario Triola with Course Compass/MyMathLab student registration code. ISBN for the new package that includes the text, student solutions manual and Course Compass Access is : 0-558-3806-11 and the cost is \$109.75. The Course Compass ID is: not available yet.

Other Materials: TI83/84 Graphing Calculator, binder or folder, ruler, #2 pencils, colored pencils, eraser.

Student Learning Outcomes: The students will be able to:

- Identify the uses and abuses of statistics, especially relating to statistical arguments in public discourse.
- Use statistical procedures and standard techniques in data gathering, summary and presentation.
- Interpret data sampling and inferential statistics (hypothesis testing and confidence intervals).
- Demonstrate the use of statistical software that would facilitate all of the above.
- Employ the basic rules of probability and demonstrate its relationship to statistics.
- Complete a project using statistical methods.

Important Dates: Last Day to Add: 8/28
Last day to drop without a "W": 9/11
Last day to withdraw with a "W": 11/20
Last day to drop with a refund: 9/04

Evaluation and Grading Criteria:

HW/Classwork/Projects: 40%
4 Exams: 35%
Comprehensive Final Exam: 25%

Grading Scale: The final course grade will be determined by using the following grading scale:

90-100% - A
80-89% - B
70-79% - C
55-69% - D
0-54% - F

Course Overview: Statistics is a fascinating and useful subject. Every time you open a newspaper, read an article or listen to a new report you can find examples of statistics in your every day world. Most students find this subject very interesting and are pleasantly surprised at how different it is from other math courses like Algebra or Calculus.

Topics include: Descriptive statistics including organization of data, histograms and measures of central tendency and spread; linear correlation and regression; design of experiments; introductory probability, random variables – both discrete and continuous; distributions including the standard and non-standard normal distributions, t-distribution and the Chi-Square distribution; statistical inference including confidence intervals and formal tests of hypothesis.

The class will include typical lectures, class work and projects. It also has an online component at Course Compass – MyMathLab. Students will be required to complete a weekly homework assignment using a computer (PC or MAC). Students are welcome to use the computers in the DVC Math Lab to complete their assignments if they do not have access to their own computers. A demonstration of the program and login procedure will be done in class during the first two days of instruction. Weekly homework assignments are due before class begins on Tuesdays. Students are expected to bring their graphing calculator and textbook or a laptop to each class meeting.

Students will be allowed to have a note card, approximately 5x8 inches, for each midterm examination. They may also bring all four previous note cards to the comprehensive final exam so memorization of formulas will not be necessary.

DVC Math Lab: Although attendance at the math lab is not required for this course, the DVC Math Lab is available for your use. In addition to computers that are course compatible, you can obtain one-on-one tutoring. Please use the computers located near the entrances to log in and out of the math lab each time you use it. See the Math Lab handout for details including hours of operation.

Attendance: Although not an official part of your grade, good attendance is necessary for success in the class so try to make it a priority. Students are expected to arrive on time and stay for the duration of the class; particularly for the 2nd hour! If you must leave early, please let me know at the beginning of the class period and don't make a habit of it.

MakeUp Policy: . No makeup exams will be given unless arranged in advance. If you miss an exam then I will replace that missing test grade with whatever you receive on the comprehensive final exam. Late assignments such as class work, projects, etc. will be accepted with a 20% penalty as long as they are turned in within one week of the original deadline. Students are expected to meet the deadlines for their online homework at Course Compass so don't wait until the last minute in case your internet goes down!

Honor Policy: Students are expected to complete their own work at Course Compass and in the classroom. During examinations, all cell phones must be turned off and there should be no communication whatsoever between students. No one can leave the classroom without the instructor's permission. Students must keep their eyes on their own exam and not allow anyone to copy their work. Any student found violating this policy will receive a grade of zero on the assignment or exam. In addition, any student found cheating may be assigned a final grade of "F" and/or be reported to the Dean of Student Life for further action.

Adding and Dropping: It is the student's responsibility to add and/or officially drop the course. You are responsible for managing your own enrollment! Any student who is absent for two weeks may be dropped from the course.

Recycling: Please use the recycling bins located near the elevators in the math building for your recyclable waste.

Food and Drink: Only beverages may be consumed during class time – no food!

Cell Phones: Students should either turn off their cell phones or put them in a "silent" mode during the class time. No texting/talking is allowed during class. Please see the instructor individually if you have a problem with this policy.

Religious Holidays/Athletic or Other School-Related Events: Please notify me at least one week in advance of any absence due to religious holidays, athletic or other school-related events. You are responsible for making up any missed assignments within one week of the absence.

Disruptive Behavior: Students with disruptive behavior will be warned. If the behavior continues they will be asked to leave the classroom and attend an appointment with the Dean of Student Life before they can return.

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Modules and Sections Text: Triola Statistics 11e

Module	Chapter(s)	Sections	Due Date
1	1	1.1-1.5	8/25
2	2	2.1-2.5	9/1
3	3	3.1-3.4	9/8
4	4	4.1-4.4	9/15
5	4	4.5-4.7	9/22
6	5	5.1-5.4	9/29
7	5,6	5.5-6.4	10/6
8	6,7	6.5,6.7,7.1,7.2	10/13
9	7	7.3-7.4	10/20
10	8	8.1-8.3	10/27
11	8	8.4-8.5	11/3
12	9	9.1-9.2	11/10
13	9	9.3-9.4	11/17
14	10	10.1-10.3	11/24
15	11	11.1-11.3	12/1

Due Dates: All homework is due on Tuesdays before the beginning of class.

Final Exams:

Section 0022: Thursday 12/17 8-10am

Section 0046 Thursday 12/17 10:30am-12:30pm