

Online Math 142-5352/5353 Fall 2009
Elementary Statistics with Probability

Instructor: Holly Kresch

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Course Times/Location: All the sections have an introductory orientation and three on campus exams on Saturdays at 1pm in MA101.

Orientation: 8/22 1-3pm (on campus)

Exams: 10/3 and 11/7 1-3pm

Comprehensive Final Exam: 12/12 1-3pm

Alternate Online Orientation: Students may choose to attend an off campus-online orientation in lieu of the on-campus orientation listed above. It will be given on Monday 8/24 12:00 noon. To “attend” you should go to <http://cccconfer.org> and find the event. You should start logging in at 11:45am. Once you are logged in please call a toll free number: 888-886-3951 with passcode: 757552 for the audio portion.

Office Hours:

On Campus: TTh:11-11:30am and 2-3pm,

Online: MW 8:30-9:30 am at <http://cccconfer.org>

Call toll free: 888-886-3951 with passcode: 471284

For the audio portion.

Prerequisite: Math 120, Intermediate Algebra, or equivalent.

Text: We will be using Elementary Statistics 11th edition, by Mario Triola with Course Compass/MyMathLab student registration code. The text is available online in a multimedia format along with interactive homework, animations, videos and many supplements. All of this is included with the Course Compass access for approximately \$70. Purchase of a hardcover text is optional but they are available at the DVC Book Center as a package that includes the text, printed student solutions manual and the online access to Course Compass. The cost for the package is approximately \$109.

Course Compass ID: If you wish to register prior to the orientation you will need a student access code or a credit card, a valid email address and the Course Compass ID: Not yet available. Also, the zip code for DVC is 94523. Go to <http://coursecompass.com> .

Other Materials: TI83/84 Graphing Calculator, binder or folder to keep organized, ruler, #2 pencils, eraser, 3 scantrons type 2052 or 882E.

Important Dates:

Last Day to Add: 9/3

Last day to drop without a "W": 9/26

Last day to withdraw: 11/20

Last day to withdraw with a refund: 9/9/09

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.

Evaluation and Grading Criteria:

Group Discussions: 10%

Online Homework: 30%

2 Exams: 25%

Comprehensive Final Exam: 35%

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.

How The Course Works: The course material is divided up into 15 parts or “Modules” over the semester so plan on working hard and putting in plenty of hours just like you would for a lecture style course.

The 15 online homework assignments are worth 10 points each for a total of 150 points and this category comprises 30% of your course grade. These assignments are graded electronically and the Course Compass program provides plenty of assistance in the form of guided practice and hints, videos and animations. Students are also encouraged to ask for help and provide assistance on the problems by using the discussion board. The homework problems can be reworked until a perfect score is achieved, but they need to be completed by the deadline for the assignment. Assignments are due every Wednesday at 8am. Don't wait until the last minute in case you have internet connection issues.

The group discussion assignments are worth a maximum of 5 points each and this category comprises 10% of your course grade. Topics for the group discussion will be given for approximately 3 out of every 5 modules and are often web-based mini projects. Specifics for each assignment can be found under “Assignments” off the Course Menu in Course Compass and responses are posted to the discussion board under the appropriate forum. These postings have the same due dates as the associated homework assignments. To receive the maximum of 5 points the posting must fulfill the requirements of the task, be well-written with proper grammar and spelling and provide thoughtful and/or insightful ideas or references that are relevant to the task.

There will be two midterm exams, one covering Modules 1-5 and the other covering Modules 6-10. The midterms comprise 25% of your grade. No makeup exams are given. If a student is unable to take a midterm exam the final exam will count in its place. If a student misses both midterms he/she will be dropped from the class. Students will be allowed to have a note card, approximately 5x8 inches, for each midterm examination so memorization of formulas is not necessary. The final exam is comprehensive and comprises 35% of your final grade. You may bring a new note card along with the two previous note cards to the final exam. No makeup finals are offered so if you do not take the final exam you will receive zero points for this category.

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.

Honor Policy: Students are expected to complete their own work at Course Compass. During examinations, all cell phones must be turned off and there should be no communication whatsoever between students and 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 required to manage your own enrollment!

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Modules and Sections Text: Elementary Statistics by Triola 11th edition

Module	Chapter(s)	Sections	Due Date
1	1	1.1-1.5	9/2
2	2	2.1-2.4	9/9
3	3	3.1-3.5	9/16
4	4	4.1-4.4	9/23
5	4	4.5-4.7	9/30
6	5	5.1-5.4	10/7
7	5,6	5.5-6.4	10/14
8	6,7	6.5,6.7,7.1,7.2	10/21
9	7	7.3-7.4	10/28
10	8	8.1-8.3	11/4
11	8	8.4-8.5	11/11
12	9	9.1-9.2	11/18
13	9	9.3-9.4	11/25
14	10	10.1-10.3	12/2
15	11	11.1-11.3	12/9
Extra Credit	7,8	7.5,8.6,9.5	12/10

Due Dates: All modules are due on Wednesdays at 8am. This includes both the homework assignment and the group discussion assignment (if applicable).