

Syllabus Statistics Professor June Decker

Math 167- Principles of Statistics Spring 2013

3 Credit Hours course number 31632 ONLINE

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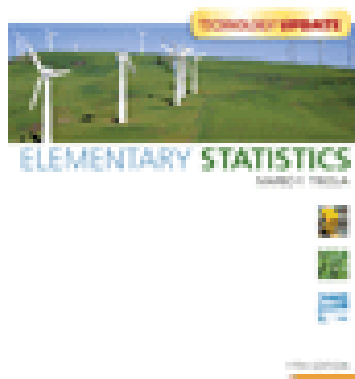
Office hours: Tuesdays and Thursdays 1:45- 2:30 in D219 (the math computer lab) and Wednesdays from 11 to 11:55 in D219. Wednesday evenings 8-9 PM live on the Virtual Classroom in Pearson My Lab (i.e. MyMathLab) virtual classroom – a chat with whiteboard. I can meet with you in my office or for an online or telephone call at other times if you contact me to request an appointment.

Email me as you need, I and I will do my best to respond within 36 hours. If you are waiting longer than 2 days for me to acknowledge your email, it is possible that the email was lost in space. Please resend the email, and accept my apologies in advance . You can easily reach me when you are doing a homework question by clicking on « Ask the instructor » on the right hand menu and homework helps. You can also go to « communications » on Pearson MY Lab (MyMathLab) , or type my email address directly into your email

Required Software : MyLabandMastering formerly known as and available as MyMathLab, MyStatsLab or CourseCompass . All 4 names refer to the same website and software. THE COURSE ID for this program is

DECKER33178

The text is Elementary Statistics, 11th ed by Mario Triola. It comes free as an electronic text with the PearsonMyLab software. You are required to read chapters 1-10 in the text, but you do not need a hardcopy of the text unless you want one.



Tutor Center (TASC) services are free to TRCC students. TASC is next to the library on the first floor of C-wing and their phone is 860-892-5713. You can access TASC's chat and discussion (you can type them a question) by going to the "course" TASC which is listed at the bottom of your course list on BLACKBOARD at www.my.commnet.edu .

You can receive free tutoring from certified math teachers hired by the publisher Pearson via a virtual chat and white board on MyLaband Mastering by clicking on the TUTOR CENTER link available on MyLabandMastering.

Course Description **PRINCIPLES OF STATISTICS**

Prerequisite: MAT K137 or acceptable placement score.*

This course introduces the basic concepts of statistics as they apply primarily to business, the technologies, and the social sciences. The topics include methods of summarizing data, measures of central tendency and dispersion, correlation and linear regression, basic probability, binomial and normal distributions, hypothesis testing for one and two populations, confidence intervals, and distributions. This course is equivalent to MAT* K163 Statistics I.

Calculations:

You may use STAT CRUNCH for your statistical calculations. Stat crunch is free on MyLab and Mastering “Tools for Success” , and has proven to be a favorite of students over the years. A similar program called STAT DISK is free from the publisher. Other students prefer to use a TI 84 or 89 calculator. Free graphing calculators are available at Microsoft.com and other websites such as Microsoft Mathematics or Wolfram Alpha. If you are going to be doing a great deal of statistical work in the future, you may want to get used to the Stats program that you will be using in your next stats or social science courses. A very common software is SPSS which I have seen for as low as \$64. Choose the technology that works for you. If you wish to learn how to use any of these technologies, just do a web search for your particular question either for printed directions or Video clips showing how to do what you want to do on your technology. Example: search “how do I make histograms on the TI 84?”

Useful Internet addresses

<http://my.commmnet.edu> for your final grade . You can also sign up for the My Commnet Alert System on this page so you can receive text messages about school closings due to weather, for example. I will be posting everything to MyMathLab and to Blackboard Learn – the sites will be duplicates, use which one you prefer for documents. I would appreciate your emailing me directly thru MyMathLab or on my jdecker@trcc.commmnet.edu address. I will not be checking Blackboard for messages as often as I check my work email. Discussions will happen on MyMathLab.

<http://www.trcc.commmnet.edu> Three Rivers Community College website

<http://www.youtube.com/watch?v=CWrgEjXGzfg&feature=related> one of many statistics lecture series I found online with a search of “Introductory Statistics Lectures” . I liked what I saw with this one. It is Stats 21 at UC Berkeley .

Another good set of videos is <http://www.khanacademy.org/> - Scroll all the way down to the S’s where you see all the Statistics concepts that we cover. Khan Academy has short and to the point explanations for each concept. There is also a section in the P’s for probability which is our chapter 4.

Grades

Final grades for the course are available to students on Dec 21 (some sooner) on <http://my.commmnet.edu> (this is called “banner”). Determination of your grade will be based on the points you score divided by 10. There will be approximately 1150 points available. Therefore you can

score 115% on this course, which gives you flexibility as to how you will accumulate your points.

Final Exam = 400 points

Chapter tests: 10 at 55 points each = 550

Semester Project :100 points

Homework: 100 points

Total =1150 possible points of which only 1000 are required for perfect score. You can see that 915 points is sufficient for an A, so you have 235 extra credit points built in. You can pick and choose what you want to do to earn your points. You MUST take the final exam, however. And you must earn 50% or better on the final to receive a C or better for the course. If you score lower than 50% on the final exam, you can earn at best a D for the course.

Your grade is determined as follows (provided the final exam grade is greater than 50%):

	915-1100 points A	895-914 points A-
865-894 points B+	815-864 points B	795-814 points B-
765-794 points C+	715-764 points C	695-714 points C-
665-694 points D+	615-664 points D	595-614 points D-

0-594 points is an F

FINAL EXAM. The required final exam is worth 400 points. A sample final exam will be posted on MyMathLab and on Blackboard Learn in mid April. The proctored final exam is the only “on-campus” requirement. You may come to TRCC for the final exam OR you may arrange with me to take the final exam at another location. You don’t have to come to TRCC for the final.

Please plan to come to TRCC at one of the following 3 times so I can proctor your final exam:

- May 14 at any of the following times: 10-11:45 in E227 or 12-1:45 in room E225 or 2-3:45 in room D-219 . (if you expect to take longer than the average 1.5 hours, please come earlier so you can stay later. I am happy to have people work in one setting, take a break and move to the next room.) If you would like a computer so you can use StatCrunch on your exam, you can bring your laptop or ask me to provide one.
- May 15 Wed evening from 6 to 8 PM (location will be posted on MyLabandMastering and on my office door C124) OR

If these times are not workable for you, I can be flexible, so let me know. If you finish the course early, I will happily give you the final exam earlier than scheduled.

Please bring a photo ID to the final exam. If you would like to arrange to take your final exam at a location closer to you, please contact me by mid semester so we can make mutually agreeable arrangements. Usually, students take proctored exams at another community college or at a military learning center.

On the final exam, I can make a computer available for you if you want to use STAT CRUNCH or STAT DISK, you may use your calculator, and you may use the FORMULAS AND TABLES FOLDOUT CARD . The foldout card is available in the text as an insert or in the e-text online (just go to the end appendices and you will see it near the bottom near the index for the text.) You may prefer the STAT REVIEW CARD available under Tools for Success on MyLab and Mastering (look in the review section). You may also make notes on your review cards about how to use Stat Crunch or the calculator for each section and topic on the review card. I have attached this foldout card to the course documents page for easy access. You may want to get used to using the Formulas and Tables Foldout Card by using it on your tests. I find that it helps to organize my thinking. You may also write notes on how to use StatDisk or the TI calculator on the Fold Out card and those notes will be available to you on the final exam.

CHAPTER TESTS. There will be 10 tests in MyMathLab worth 55 points each. They are open book, open notes, but you must work alone and not receive help from any person. You may take each test 3 times. I will count the highest grade on each test. I recommend that you work one try of the test without notes so that you have an accurate idea about what you truly know about statistics. I will give SUGGESTED dates by which you might take the test so that you can gauge whether or not you will finish the work by May 14. You are welcome to take the tests earlier or later than I recommend to fit your schedule. Just be done by May 14.

You may print out a test after you finish it and study it with a person before you retake the test with different numbers in the questions. You may go to GRADEBOOK on PearsonMyLab where you will see the red word "review" after the assignment name. Click on review to see your tests. You have 3 tries on tests to allow for computer glitches, too. If you are in the middle of a test and get "kicked out" , you can always go back and do the test again without penalty. If you are nearly done, and you get accidentally logged off, and you don't want to have to redo everything, just email me to let me know and I will take the part you answered from one test (say questions 1-8 and 11) and blend it or meld it with another test that you take (say questions 9, 10, 12 to the end). Then I can give you a combined score and you won't have to redo all the problems you did correctly. The main message is this: If the software or computer program gets in the way of your learning, let me know and we will see if we can come up with some sort of resolution.

HOMEWORK. 150 points. If you earn 85% or better on any homework assignment, that assignment will count as being done. If you do all the homework assignments, you will have 100% on the homework. The reason that I will give you a perfect score even if you have an 85% on a homework, is so that there is not any anxiety over the computer grading system. IF you get a problem wrong, and you do not know why it is wrong, please hit the "ask the instructor" button so I can verify that the error is in the grading, not in your conceptual understanding. There is a fair amount of anxiety over proper rounding off for answers. Please just hit the "ask the instructor" button to the right of the homework if you have any concerns at all about how the question is graded. I have the ability to override the computer and give you credit for something they mark wrong.

PROJECT: Information about the semester project will be posted to Blackboard and to MyMathLab. Get started on reading the book, viewing videos, doing homework problems and taking the test on MyMathLab for the first few weeks. Once you are comfortable with that routine, we will discuss the project. For scheduling purposes, expect to spend a total of about 6 hours to do the project.

Withdrawal Policy A “drop or withdrawal” from the course will be accepted through till May 13. Students need to fill out the special withdrawal form available at the registrar’s office. **The Instructor does not need to sign the withdrawal form.** Withdrawals are processed only through the Registrar’s Office at (860) 892-5756 . Students who do not withdraw, but stop attending will be assigned an "F". **If you cannot do the classwork for a period of time, please contact me so we can try to make arrangements for you to possibly finish the course.**

Disabilities Statement If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact the disabilities Counseling Services at 383-3240. To avoid any delay in the receipt of accommodations, you should contact the counselor as soon as possible. Please note that I cannot provide accommodations based upon disability until I have received a letter from the disabilities counselor.

Emergency closings are posted on the college website: www.trcc.comnet.edu, and recorded on the college phone 860-886-0177, and broadcast on TV or radio. You can also sign up for an automated personal phone call from the college to your telephone number by going to www.mycommnet.edu and clicking on the part that mentions “MyCommnetAlert”. Weather closings will not be an issue for us, except possibly for the final exam day, or if you want to visit me at my office hours. Therefore, I will put an announcement on MyMathLab if I cannot be at the college as scheduled.

Academic Integrity is essential to a useful education. Failure to act with academic integrity severely limits a person’s ability to succeed in the classroom and beyond. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the College. Collaboration is encouraged on many assignments. Tutors are available to assist you with this sort of work. I am available to help you in person or online.

However, tests and exams are considered individual work and must be completed without unauthorized assistance of any kind, including help of other people. Online tests are open notes and open book. You may not ask a person to help you with a test question during the test. Once you have done the test and submitted it for grading, you can print out and review the test with your answers and the correct answers. You may print out your test review and bring it to another person to study before you do a re-take on the test. I will count the highest of 3 tries on a test. Repeated testing improves learning. Remember, though, you have only one chance to take the Final Exam, so you want to be sure that you learn the concepts. The final exam allows you to have the formula fold out card (several pages) or the review card (several pages) with your annotations. The final exam is not open book, open notes. Cheating on tests, misrepresentation of attendance, falsifying records, or lying will result in loss of credit for all work involved.

A full copy of the college’s academic integrity policy is in the school’s catalog and in the student handbook.

A suggested schedule for you to follow is given below. You can work faster at times, and slower at other times, provided you finish the homework and test by May 14 and 15, the dates of the final exam. THERE IS NO PENALTY FOR WORK DONE AFTER THESE SUGGESTED DUE DATES.

STATISTICS MAT 167 SCHEDULE SPRING 2013 PROFESSOR JUNE DECKER

<u>On this date:</u>	<u>Plan to be done with studying:</u>	<u>On this date, take</u>	
Monday Feb 4	Ch 1 Introduction to Statistics	Test Ch 1	
Monday Feb 11	Ch 2 Summarizing and Graphing Data Be sure to start using Stat Crunch or a graphing calculator to reduce time spent on doing problems.	Test Ch 2	
Monday Feb 18	Ch 3 Statistics for describing Exploring and Comparing Data	Test Ch 3	
Thursday Feb 28	Ch 4 Probability sections 4.1-4.6	Test Ch 4	
Monday March 11	Ch 5 Discrete Probability Distributions. Sections 5.1 -5.4	Test Ch 5	
March 17-24	SPRING BREAK	Catch up or work ahead or relax time	
Monday March 25	Ch 6 Normal Probability Distributions sections 6.1-6.5	Test Ch 6	
Thursday April 4	Ch 7 Confidence Intervals, sections 7.1—7.5	Test Ch 7	
Thursday April 18	Ch 8 Hypothesis Testing , sections 8.1-8.6	Test Ch 8	
Monday April 29	Ch 9 Inferences from two samples, sections 9.1-9.4	Test Ch 9	
Monday May 6	Ch 10 Sections 10.1-10.3 Correlation and Regression	Test Ch 10	
Study for final exam	Work on Project Due May 20	Project due May 20	
May 15 6-8PM (location TBA) May 14 come to any of the following sittings: 10-11:45 in E227, noon-1:45 in E225 2-3:45 in D219	FINAL EXAM – in person at THREE RIVERS COMMUNITY COLLEGE or other prearranged proctored location or time	FINAL EXAM	

