

**College of the Canyons / Syllabus / Math 140 Statistics
Fall 2020 / Section #51184 / Teachout**

Instructor: Matt Teachout

Contact Information:

- You can contact Mr. Teachout via Canvas
- COC Email Address: matt.teachout@canyons.edu
- Gmail Address: matt.teachout@gmail.com
- Assignments submitted in Canvas.
- Exams taken in Canvas.
- Video Lectures, Notes, Textbook Sections and Textbook Problems may be found in the "Modules" menu in Canvas and at Matt's Website: www.matt-teachout.org.
The textbook and all materials are free for students!

Class Time and Place: NOTE: Moved to Asynchronous Online

- Math 140 Section 51184 is an 8-week online class that begins October 19th and ends December 13th.
- Math 140 was originally designed to meet face-to-face on campus. These classes have now been converted to an asynchronous online/remote format. This means you can work at your own pace and submit assignments and exams to Canvas at any point before the deadlines. There will be no class meetings!

Time Commitment:

- Most people do fine in 140 classes as long as they set aside enough time to watch the videos and work on the problems and exams. Remember the course was originally designed to meet face to face for 10 hours per week for 8 weeks. With homework time, expect to spend at least 16 hours a week working on the Math 140 material.

Office Hours and Questions: Since the class is asynchronous and no longer meeting on campus, you may email Matt any homework questions, grade questions, or to request a video explaining a problem via canvas email or at matt.teachout@gmail.com.

Tutoring: Feel free to make an appointment with The Learning Center (TLC) for online math tutoring. [TLC Tutoring Link](#) Note: A valid COC student ID is required to use the TLC.

Drop Policy: Please let Mr. Teachout know right away if you drop the class. If you need to drop the class, please process the drop online or fill out the necessary paperwork and process it in the Admissions office. Here are the drop deadlines for eight-week classes in Fall 2020.

Section #51184

Drop w/o "W".....: 10/27/20

Drop Deadline.....: 11/30/20

Drop Refund.....: 10/21/20

Student Learning Outcomes for Math 140

1. Apply basic statistical procedures, including the collection, analysis, and reporting of data designed to test a research hypothesis.

2. Demonstrate the appropriate use of computer-based statistical software.

Math 140 Description: Math 140 examines statistical methods including collecting data, bias, experimental design, exploratory data analysis, regression, probability, sampling and theoretical distributions, population estimations, confidence intervals, hypothesis testing, categorical and quantitative association tests and how to use computer-based statistical software.

Math 140 Course Outline: For more detailed information about the class material, click on the following link to access the updated course outline of record (COR). [Link to Math 140 course outline](#).

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Math 140 Textbook: We will be using the following free online textbook for Math 140. The sections and problem sets for the book can be found at www.matt-teachout.org under the “statistics” tab. Links to the sections and problems in the textbook are also included in your weekly schedules on Canvas.

Introduction to Statistics for Community College Students by Matt Teachout (1st edition)

Math 140 Grading Scale:	90 – 100	A	60 – 69	D
	80 – 89	B	59 or below	F
	70 – 79	C		

Math 140 Grade Summary:

Three Math 140 Exams: Worth a total of 45% of your overall grade in Math 140 (15% each)
Final Exam: Worth 15% of your overall grade in Math 140
Math 140 Assignments: 25% of your overall grade in Math 140
Math 140 Project: 15% of your overall grade in Math 140

Math 140 Supplemental Materials: Lecture video links, notes, assignments and data sets can be found at www.matt-teachout.org under the “Statistics” tab. Weekly schedules will be emailed to you and also may be found in your Math 140 Canvas shell.

Math 140 Exam Policy:

- There will be three exam worth a total of 45% of your overall grade in Math 140 (15% each).
- There will be one final exam worth of 15% of your overall grade in Math 140.
- Exams are given in Canvas on the key ideas in the chapter.
- Exams and the Final Exam assess how well you understand the Math 140 concepts. Therefore you may NOT re-take the math 140 exams or final.
- Anyone caught cheating or plagiarizing on an exam will receive a zero for that exam and be reported to the office of the dean of students.
- Exams will be given in canvas. The exam problems rotate so each student will get different exam questions.

Math 140 Homework Assignments Policy:

- Your homework each week will be to watch lecture videos on Math 140 topics and take notes. It is also good to read the sections in the textbook. Then work on the Math 140 problems assigned from the textbook.
- You will also be assigned discussions where you will get to discuss topics with fellow students in your class.
- Homework assignments may be submitted to your Math 140 Canvas shell at any time during the week before the deadline.
- Assignments are worth 25% of your overall grade in Math 140.
- Watch the videos and work on the problems throughout the week. Submit your problems as you do them. Do not wait until the last minute.
- I do allow make up work to be submitted with valid reason.

Math 140 Project: You will be doing one real world data project. The project is worth 15% of your overall grade in Math 140. Project directions will be given later in the semester.

Statistics Software: StatKey

Best practices for statistics education is to learn to solve real world problems by analyzing data with statistics software. No statistician calculates statistics with a calculator and a formula especially with large data sets. For difficult calculations, we will be use the following statistics software program: StatKey.

StatKey is a free statistics software and does not need to be downloaded or saved. Just go to www.lock5stat.com and click on the “StatKey” button. We will be learning to use StatKey throughout the

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semester.

Note: Our textbook also gives you printouts from another statistics software named Statcato. You do not have to save Statcato on your home computers. Problem sets in the textbook already have the Statcato printouts and graphs given to you. You will not need to calculate with Statcato. You will just analyze the Statcato statistics and graphs already given to you.

COC Campus Resources and Information: [Campus Resource Guide Fall 2018](#)

Behavior and Cheating Policy:

- *I like my classes to have a fun, encouraging environment. I expect you to have a commitment to learning, watch lecture videos, take good notes, and keep up with your assignments and exams. With that being said, I do expect students to abide by the code of conduct in the COC college handbook. Respect one another and do not use profane language in your essays, emails and discussion board posts.*
- *Exams, projects and assignments must be done by you. Exams and writing assignments should be in your own words and use the vocabulary used in the textbook and in the lecture videos. Do not copy other students work. Do not plagiarize from other statistics books or statistics articles online. Remember, this is an intro class. Most statistics articles online are written by people in advanced statistics and will not answer the questions appropriately or with the simple, straightforward language of the class. You are welcome use statements from our textbook or from our lecture videos, as long as you put it in quotes and site where it came from.*
- *Anyone caught cheating, plagiarizing (copying another student's assignments or project, or copying online articles), will get a zero on that exam, assignment or project. The information about the cheating episode will also be forwarded to the Office of the Dean of Students, whose personnel will determine what sanctions are appropriate.*

Formulas: A key part of modern statistics is using technology to solve problems, and not do complicated statistics calculations with formula and calculator. Whenever possible, we will use the statistics software StatKey to calculate statistics and create graphs. Formulas are useful to study so that we can better understand and explain the concepts.

Canvas and Zoom:

- We may use Zoom occasionally. Please see <https://support.zoom.us/hc/en-us/articles/206618765-Zoom-video-tutorials> for some video tutorials on how to use Zoom.
- Canvas: Our course will be using the Canvas course management system to support our teaching and learning goals starting on the first day of the course.
 - You can access our course on the first day of class at <https://coc.instructure.com/login/canvas> using your MyCanyons username as your login. If you have never used Canvas before, your default password is "students". You are automatically added to the course by the school system as long as you are enrolled in the class.
 - After login, click on Dashboard or Courses to locate our class. Then click on the title of our class.
 - If you haven't done so already, change your Canvas password.
 - From the left menu bar, click on Account → Settings → Edit
 - From this window, you can also enter an email address and/or text preferences if you would like to receive text messages for assignments, deadlines, and due dates.
 - Then go to Notifications. On this screen, you may edit what you receive from Canvas and the method of contact.
 - Click on Account → Notifications. Under Notification Preferences, you can control the method and way Canvas contacts you with reminders of course deadlines and activity. These can be updated/changed at any time.

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- Please also use the following website at <https://www.canyons.edu/academics/onlineeducation/studentsupport/canvasstudentguides.php>. Here, you can also access Canvas user guides with helpful tips for navigating and using Canvas. For any Canvas related issues, please call the Canvas Student Support line at (661)362-3344 during college business hours, or (877)889-9052 for 24/7 support.

- A reliable computer with reliable, consistent Internet access
- Up-to-date internet browser, Chrome is preferred for Canvas.
- Word processing program (Microsoft Word) and spreadsheet program (Microsoft Excel). Both are freely available in your MyCanyons account.
- Valid MyCanyons email account that you will regularly check
- Basic knowledge of Canvas
- Basic document creation and handling (how to cut/copy/paste from one document to another).
- Be able to create and save documents in Microsoft Word and as a pdf file, how to attach documents to email messages and discussion posts.

Optional Calculator and optional Flash Drive: Any small calculator is useful in math 140, but not required. You can use an online calculator or your cell phone. All difficult calculations will be calculated with StatKey. In addition, a small inexpensive flash drive is useful for saving your work on, but again not required.

Work Ethic: It is very important to your success in the class that you do not fall behind too much. Keep up with watching your video lectures, working on the problems in the textbook, and completing your exams and project. Remember the course was originally designed to meet 10 hours per week. With homework time, expect to spend at least 16 hours a week working on the Math 140 material.

Key Elements of Math 140

Critical Thinking and Growth Mindset: One of the main goals of math 140 will be to develop real world critical thinking skills. Remember intelligence, critical thinking, and math proficiency are not fixed quantities. Even if you think of yourself as not a math person, you are not stuck in this mindset. Our brains can grow and change. Any student can become a critical thinker. It just takes effort and the belief that we can change. Therefore there will be “exploring” exercises in almost every class, that help us not only develop critical thinking skills, but will help us understand statistics at a much higher level.

Reading/Writing/Presenting: Math 140 is designed to teach you to apply statistics to the world around you. The study of statistics is really the study of information. Employer’s number one request is that their employees can look over information, critically think to help find a solution, and then be able to present their solutions in written reports and verbal form. With that being said, Math 140 will incorporate a lot of reading and writing assignments. These are the real world skills that you need to succeed.

MANAGEMENT OF STRESS AND MENTAL HEALTH:

Often the pressure on our students is very strong, involving academic commitments, relationships, outside jobs and family pressure to name a few. In addition, the efforts to combat the Coronavirus have all of us making major adjustments to the way we learn and live. It is a given that coping with the stress of fast and sweeping changes brings emotional upheaval and considerable anxiety. The staff and faculty of College of the Canyons are here to see you succeed academically and care about your emotional and physical health. Although the Student Health Center will be closed until further notice, the mental health staff of the College Of The Canyons Student Health & Wellness Center is continuing to provide free sessions of Personal Counseling appointments to currently enrolled students. The Sessions are paid for by student health fees.

To make a confidential appointment simply e mail the center at studenthealthcenter@canyons.edu. They will get back to you as soon as possible.

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*You can learn more about the broad range of confidential student services, including counseling and mental health services available on campus by visiting the Student Health & Wellness Center website at <https://www.canyons.edu/student-services/health/index.php> . The phone number is **661-362-3259**.*

*Also, the **National Suicide Lifeline number is 1-800-273- 8255(TALK)**. All students at COC are encouraged to enter that phone number in their cells. You can call it when you, or someone you know, is having thoughts of suicide or is in severe distress.*

*You can also now use the **Crisis Text Line**: Just text "**Courage**" to **741741**. Someone will get back to you immediately. Its free, 24/7, and confidential.*

Finally, for local information and resources, we have worked with our community to develop a great website that you can visit:

Be The Difference SCV: <https://www.bethedifferencescv.org/>