

College of the Canyons / Syllabus
Math 090 (section#51115) & Math 140 (section 51205)
Statistics with Support / Fall 2020 / Teachout

Instructor: Matt Teachout

Contact Information:

- Contact Mr. Teachout via the Canvas email.
- COC Email Address: matt.teachout@canyons.edu
- Matt's Gmail Address: matt.teachout@gmail.com
- Math 140 lectures, assignments and free textbook found in the "modules" menu of your Canvas section#51205.
- Math 140 Assignments Submitted to Canvas section#51205.
- Math 140 Exams taken in Math 140 Canvas section#51205.
- Math 090 Quizzes taken in Math 090 Canvas section#51115.
- Video Lectures, Notes, Textbook Sections, Textbook Problems, and answer keys may also be found at Matt's Website: www.matt-teachout.org. The textbook and all materials are free for students!!

Class Time and Place: **NOTE: Moved to Online/Remote**

- Math 090/140 was originally designed to meet at the Valencia campus. The class has 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. The class does not meet at any specific time during the semester.

Time Commitment:

- Most people do fine in Math 090/140 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 8 hours per week for 16 weeks. With homework time, expect to spend at least 16 hours a week working on the Math 090 and 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.

Student Learning Outcome for Math 090

Apply basic mathematical and data analysis skills to identify, analyze, and solve problems in Introductory Statistics.

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 090 and Math 140 Descriptions:

- **Math 090 is a support class where you get extra practice on calculations and computer software necessary to do well in math 140.**
- **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.**

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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.](#)

Math 090 Grading Scale:

70 – 100	Pass
0 – 69	No Pass

Math 140 Grading Scale:

90 – 100	A	60 – 69	D
80 – 89	B	59 or below	F
70 – 79	C		

Math 090 Grade Summary:

Your overall grade in Math 090 will be determined by the grades on Math 090 Quizzes. The quizzes may be found in the quiz menu in your Math 090 Canvas Shell and are based on skill development and mastery learning. The quizzes will have basic skills problems to work on. You will need a calculator or cell phone calculator when you take the quizzes. Since the goal is to get better, you are encouraged to retake the quizzes over and over for a higher score. Each time you take the quiz, you will be getting different questions.

Math 140 Grade Summary:

Three Math 140 Exams worth a total of 45% of your overall grade. (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 090 & Math 140 Textbook: We will be using the following free online textbook for both Math 090 and 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 090 and Math 140 Supplemental Materials: Lecture video links, notes, assignments and data sets can be found both on Canvas and at www.matt-teachout.org under the "Statistics" tab.

Note: The Math 090 Quizzes are found in your Math 090 Canvas shell.
All Math 140 assignments and exams are found in your Math 140 Canvas shell.

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

Drop Policy: If you need to drop the class, please let Mr. Teachout know right away. You will need to process the drop online or fill out the necessary paperwork and process it in the Admissions office. Here are the drop deadlines for Fall 2020. If you do drop, make sure to drop both Math 140 section #51205 and Math 090 section #51115.

Full Semester Length Class Deadlines:

Refund	September 6
Add	September 6
Drop w/o a W	September 6
Pass/No Pass	September 25
Drop w/ a W	November 14

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*

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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.
 - Please also use the following website at <https://www.canyons.edu/academics/onlineeducation/studentssupport/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

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- 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 090 and 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.

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 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.

Math 090 Quiz Policy:

- Your grade in Math 090 will be based on Math 090 quizzes. There will be regular quizzes on the Math 090 skills.
- The goal of the quizzes is to achieve mastery of the skill. Therefore, you are encouraged to re-take the Math 090 quizzes multiple times.
- Each time you re-take a math 090 quiz you will get different problems.
- Quizzes are given in your Math 090 Canvas shell section #51115.
- Anyone caught cheating or plagiarizing on a quiz will receive a zero for that exam and be reported to the office of the dean of students.
- Quiz days will be given in canvas and in the weekly schedules.

Math 140 Exam Policy:

- There will be three exams worth a total of 45% of your overall grade in Math 140 (15% each).
- Exams are given in Canvas on the key ideas in the chapter. The problems rotate, so each student will receive a different exam.
- 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 days will be given in canvas and in the weekly schedules.
- **Final Exam:** The final exam will be given at the end of the class and is worth 15% of your overall grade in Math 140.

Math 140 Homework 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.
- 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.

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- 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 towards the end of the class. The project is worth 15% of your overall grade in Math 140. Project directions will be given later in the semester.

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 8 hours per week. With homework time, expect to spend at least 16 hours a week working on the Math 090 and 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. The staff and faculty of College of the Canyons are here to see you succeed academically and care about your emotional and physical health. 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 in the Student Services Building (across from the bookstore) or by clicking on <http://www.canyons.edu/offices/Health/Pages/default.aspx>. The phone number is **661-362-3259**. At the Canyon Country Campus the Health Center is in 1B adjacent to Administration, Admissions and Records.

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.