This foundational course is essential to your success in the study of economics. CU economics 4000-level courses require knowledge of basic statistical reasoning and understanding. Further, our econometric courses build directly off this course.

COURSE OBJECTIVES

By the end of the course you should be able to:

- 1. Describe data with graphs and with statistical tools.
- 2. Identify probability distributions.
- 3. Conduct hypothesis testing.
- 4. Conduct statistical inference.
- 5. Identify which test to use in which case.
- 6. Run and interpret a simple lineal regression.

COURSE PREREQUISITES

Requires prerequisite courses of ECON 2010 (Principles of Microeconomics) (minimum grade C-) AND either ECON 1088 or MATH 1081 or MATH 1300, MATH 1310, or APPM 1350 (minimum grade C-). Restricted to students with 22-180 units completed.

REQUIRED COURSE MATERIALS

Textbook (required): Moore, D., Motz, W. and Fligner, M., The Basic Practice of Statistics, 9th edition. With Achieve. Macmillan. ISBN: 9781319344634.

You need the version with Achieve since Achieve will be used for homework and quizzes. You may also buy a hard copy of the book (ISBN:9781319408541), but this is not required.

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Course Website: https://canvas.colorado.edu/ (Canvas) Grades and any further additional readings will be posted on Canvas. Please check Canvas frequently for any relevant notifications/changes that may occur throughout the course.

SUPPLEMENTAL MATERIAL

You will use R, a free statistical package to conduct statistical analysis.

INSTRUCTIONAL METHODOLOGY AND DELIVERY

This course is delivered via distance education format using the CU Canvas system. This format will use a combination of readings, online discussion, and other web-based resources. You will interact with the instructor and other students using the communication functions provided by Canvas. You will submit assignments in accordance with the course outline using Canvas. You will also have access to Achieve from the MacMillan Learning catalog.

COURSE PRESENTATION AND PROCEDURES

There will be 14 modules, in 14 weeks (1 module per week). You should proceed through one module every week, which will be comprised of readings from the course texts, supplemental class notes, graded discussion questions, exercises, and quizzes, exams, and various outside sources of information such as additional readings and video content, among other content.

COURSE OUTLINE

Review the separate weekly class schedule # o

CLASS PARTICIPATION

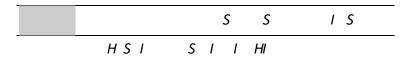
This course is designed to engage you mostly through exercises, however, there will also be class discussions on the topics covered in the course materials. It is important that you participate in class discussions to facilitate learning by other students and gain exposure to different viewpoints of other students in the class.

EVALUATION AND GRADING

Course grades will be determined by the completion of assignments, exams, and discussions, as shown below:

Assignment									
Problem Sets*	20	10	200	20%					
Quizzes*	20	10	200	20%					
R Exercises*	20	7	140	14%					
Discussions	20	4	80	8%					
Proctored Midterm Exam	150	1	150	15%					
Proctored Cumulative Final Exam	230	1	230	23%					
TOTAL			1000						

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ASSIGNMENTS

(200 POINTS) - There will be a 20-point exercise associated with most modules. Problem Sets consist of quantitative questions where you will complete questions while showing your work. Problem sets will be on Achieve.

Your lowest one (1) Problem Set will be dropped from your final grade calculation.

(200 POINTS) There will be quizzes associated with most modules each worth 20 points. The format of the quizzes will be multiple choice, calculations, and short answers and will be open book and open notes. Your lowest one (1) quiz will be dropped from your final grade calculation. Quizzes will also be submitted through Achieve.

(140 POINTS) - There will be a 20-point R exercise most weeks

R exercises complement the material studied in class with coding tools to run the same analysis in R. R Exercises sets will be accessed through Canvas and you will have to scan your completed problem set in order to submit the exercise on Canvas.

Your lowest one (1) R exercise will be dropped from your final grade calculation.

(80 POINTS) - There will be three 20-point discussion postings.

The discussion will occur asynchronously; I will post a discussion question and you will respond to the questions at your convenience prior to the due date. Discussions are open book and open note and will be submitted through Canvas. See the class schedule for due dates of posts and comments.

(380 POINTS) There will be two (2) exams. The proctored midterm exam is worth 150 points and the proctored cumulative final exam is worth 230 points. The format of the exam will be multiple choice and calculations and will be closed book. The exams are completed on Connect in a proctored setting.

This course requires proctored examinations. Exams are proctored which will require planning on your part. Proctors are individuals who administer the exam process following the guidelines provided by University of Colorado Boulder to ensure academic integrity.

Who can be my proctor?

If you are in Boulder or nearby, you can take your exam:

- 1. At the Department of Economics. There is no cost for using this proctor. This option is only on selected days during the exam period.
- 2. At the University Testing Center on-campus in Boulder, CO. There may be a cost for using the testing center. This option is only available M-F during regular business hours.

3. With Proctorio. Online proctoring is a service that uses a webcam and microphone to ensure academic integrity. To use this service, you must have access to a computer with a webcam and a microphone. There will be a cost for using the online proctoring services. Please review <u>Proctorio Minimum System Requirements</u> to ensure you have the correct hardware and software to use this tool.

If you are outside of Boulder, you can take your exam:

- 1. At an accredited college or university testing center in your town or nearby. There may be a cost for using this testing center.
- 2. With ProctorU or a comparable online proctoring service as determined by your instructor. Online proctoring is a service that uses a webcam and microphone to ensure academic integrity. To use this service, you must have access to a computer with a webcam and a microphone. There will be a cost for using the online proctoring services.

Note that you are required to have a computer with a functioning webcam and microphone or have access to a computer with a functioning webcam microphone to complete your exams.

EXTRA CREDIT

There may be 30 points of extra credit available (= 3% of the course grade).

Extra credit may be available during the semester for completing certain activities, such as listening and commenting on a podcast or solving practice exams. These extra credit opportunities will be determined by the instructor and announced on Canvas.

COMMUNICATION

I am nice and I want you to succeed. Do not hesitate to contact me about anything.

E-mail: sara.avila@colorado.edu

Please always remind me of what course you are taking. Since I teach several courses, I forget what course you are taking, especially at the beginning of the semester.

I will respond to email within 12-18 hours, but usually within 2-4 hours. I always respond to emails. If you have not had a response within 18 hours, I did not receive the email. Be sure to use your CU email address because sometimes Gmail and yahoo email accounts are filtered into my spam folder.

Mobile: (720) 327-1396

This is my cell phone number. Call or text anytime between 8am 9pm MTN. I sometimes have my phone turned off during the middle of the day but leave a message when it is a good time to get a hold of you and I will call you back.

Additional ways to contact Dr. Avila:

Online Office Hours: Wednesdays and Thursdays 10 am -12:15 pm using Zoom (https://cuboulder.zoom.us/my/saraavila)

General Course Announcements

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Technical Support

Canvas technical support. If you are experiencing issues with Canvas please contact:

- CU Boulder's Help desk at 303-735-4357 (5-HELP) or <u>help@colorado.edu</u>. 5-Help will answer your call: Monday through Friday from 7:30 a.m. to 7:00 p.m., Saturday and Sunday from noon to 6:00 p.m., Closed during <u>University Holidays</u>
- o \ ' '
- Within the Canvas App, you can search the Canvas support guides, Report a Problem or chat with Canvas Support 24 hours a day, 7 days a week.

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- Connect tech support:
 - o <u>http://mpss.mhhe.com/</u> or <u>http://bit.ly/StudentRegistration</u>

COURSE POLICIES

NETIQUETTE

All students should be aware that their behavior impacts other people, even online. I hope that we will all strive to develop a positive and supportive environment and will be courteous to fellow students and your instructor. Due to the nature of the online environment, there are some things to remember.

- 1. Always think before you write. In other words, without the use of nonverbals with your message, your message can be misinterpreted. So please think twice before you hit submit.
- 2. Keep it relevant. There are places to chat and post for fun everyday stuff. Do not stray from the discussion in the assigned questions.
- 3. Never use all caps. This is the equivalent of yelling in the online world. It is not fun to read. Only use capital letters when appropriate.
- Make sur
 k y
 u
 understand this type of abbreviation, not to mention it does nothing to help expand your writing and vocabulary skills. Emoticons are fine as long as they are appropriate. A smile is welcome, anything offensive is not.
- 5. Treat people the same as you would face-to-face. In other words, it is easy to hide behind the computer. In some cases, it empowers people to treat others in ways they would not in person.

TECHNOLOGY REQUIREMENTS AND SUPPORT

What are the basic computer specifications for Canvas?

Visit the official <u>Canvas Computer Specifications Page</u> for the latest list of recommended system requirements.

Which browsers does Canvas support?

Visit the <u>Supported Browsers Page</u> for the detailed list of internet browsers in Windows, MacOS, iOS and Android.

Skill Requirements

Students also need to possess basic computer skills, such as:

- o How to use a web browser and word processor
- o How to send and receive email
- How to locate a file and attach it to an email or upload a file into a course
- How to copy and paste
- o Must know basic typing skills and keyboard commands
- o Must know basic computer terminology

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- o On
- Within the Canvas App, you can search the Canvas support guides, Report a Problem or chat with Canvas Support 24 hours a day, 7 days a week.

MyLab tech support:

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with respect to individuals and topics dealing with race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. For more information, see the policies on <u>classroom behavior</u> and the <u>Student Conduct & Conflict Resolution policies</u>.

HONOR CODE

"On my honor, as a University of Colorado Boulder student I have neither given nor received unauthorized assistance."

All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the Honor Code academic integrity policy. Violations of the Honor Code may include, but are not limited to: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, submitting the same or similar work in more than one course without permission from all course instructors involved, and aiding academic dishonesty. All incidents of academic misconduct will be reported to the Honor Code (<u>honor@colorado.edu</u>); 303-492-5550). Students found responsible for violating the academic integrity policy will be subject to nonacademic sanctions from the Honor Code as well as academic sanctions from the faculty member. Additional information regarding the Honor Code academic integrity policy can be found on the <u>Honor Code</u> <u>website</u>.

SEXUAL MISCONDUCT, DISCRIMINATION, HARRASSMENT AND/OR RELATED RETALIATION

The University of Colorado Boulder (CU Boulder) is committed to fostering a positive and welcoming learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct intimate partner abuse (including dating or domestic violence), stalking, protected-class discrimination or harassment by members of our community. Individuals who believe they have been subject to misconduct or retaliatory actions for reporting a concern should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127 or <u>cureport@colorado.edu</u>. Information about the OIEC, university policies, <u>anonymous reporting</u>, and the campus resources can be found on the <u>OIEC website</u>.

Please know that faculty and instructors have a responsibility to inform OIEC when made aware of incidents of sexual misconduct, discrimination, harassment and/or related retaliation, to ensure that individuals impacted receive information about options for reporting and support resources.

RELIGIOUS HOLIDAYS

Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Because of the flexibility of timing of completion of assignments in this class, you must contact the instructor in at least two weeks in advance if you anticipate a religious holiday may impact your completion of coursework.

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