

# University of Colorado Bould INTRODUCTION TO STATISTICS WITH COMPUTER APEL ECON3818 SYLLABUSUMME 2023

x Office Hours:Tuesdays and Thursdaysam-10:30am using Zoom

INSTRUCTOR BIO I am an

This foundational course is essential to your success in the study of economics. CU economites/•000 courses require knowledge of basic statistical reasoning and understanding. Further, our econometric courses build directly off this course.

# COURS@BJECTIVES

By the end of the courseou 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. Runand interpret a simple lineal regression.

# **COURSE PREREQUISITES**

Requires prerequisite courses of ECON 2010 (Principles of Microecon(minitis))um grade Q ANDeither ECON 1088 or MATH 1081 or MATH 1300, MATH 1310, or APPM 1350 (minimum) grade C Restricted to students with 2280 units completed.

# REQUIRED COURSE MATERIALS

Textbook (required) Moore, D., Motz, W. and Fligne M., The Basic Practice of Statist edition. With Achieve Macmillan. ISBN 2781319344634

You need the version with Active since Achieve will be used for homework and guizzes.

You may also buy a hard copy of threok (ISBN:97813194085)4. but this is not required.

Day 1 Digital Access: To keep the cost of your course materials <u>as low as possible</u> and access to those materials as <u>convenient as possible</u>, we have collaborated with the CU Book Store and the publisher to deliver those materials

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ECON3818: Introduction to Statistics

Course Websitehttps://canvas.colorado.edu/ (Canvas) Grades and any further additieadings 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, face statistical package to conduct statistical analysis.

# INSTRUCTIONAL METHODOLOGY AND DELIVERY

This course is delivered via distance education format using the abusystem. This format will use a combination of readings, online discussion, and other was resources ouwill interact with the instructor and other students using the communication functions provide any vas You will submit assignments in accordance with the course outline usagvas You will also have access to hieve from the MacMillan Learning catalog.

# COURSE PRESENTATION AND PROCEDURES

There will be 6 modules, in 8 weeks 2 modules per week). You should proceed through one module everyweek, which will be comprised of readings from the course texts, supplemental class notes, graded discussion question exercises and quizzes, exams, and various outside sources of information such as additional readings and video content, among other content

# COURSE OUTLINE

Review the separaetweekly class schedule μν γ λ • μν Œ ^^Çoo μ•\_ o]vIX

#### CLASS PARTICIPATION

This course is designed to engage you mostly through exercises, however, that so will be class

# **EVALUATION AND GRADING**

Course grades will be determined by the completion of assignments, exam**d**; sandsions, as shown below:

Assignment	Points per Assignment	Frequency	Points	Grade Percentage
Problem Set's	25	10	250	25%
Quizzeš	20	10	200	20%
R Exercises	20	7	140	14%
Discussio <b>s</b>	20	4	80	8%
Proctored Midterm Exam	150	1	150	15%
Proctored Cumulative Final Exal	180	1	180	18%
TOTAL			1000	100%

Keep a copy of all work created for the course, including work submitted through as \*The lowest grade of these assignments will be dropped. See below.

**COURSE GRADING CRITERIA** 

Grade

Problem Sets (250 POINTS)There will be (eleven) 25-point exercise associated with most modules.

- x Problem Setsonsist of quantitative questions where you will complete questions while showing your work. Problem sets will be Achieve
- x Your lowest one (1)Problem Setvill be dropped from your final grade calculation.

Quizzes (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) qwiz be dropped from your final grade calculation. Quizzes will be submitted through Achieve

# R Exercises (140 POINTS)There will beseven 20-point Rexercises

x 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.

# Discussions (80 POINTS) There will befour 20-point discussion posting

x The discussion will occur asynchronously; I will packscussion question anyou will respond to the questions alyour convenience prior to the due date Discussionare open book and open note and will be submitted throughanvasSee the class schedule for due dates of posts and comments.

Exams (330 POINTS): There will be two (2) exams. The proctored midterm exam is worth 150 points and the proctored cumulative in a least exam is worth 180 points. The format of the exam will be multiple choice and calculations and will be closed book. The exams are completed on Connectin a proctored setting

This course requires proctored examination sxams are proctored which will require planning on your

- 2. With Proctorio or a comparable online proctoring service as determined by your instructor. Online proctoring is aervice that uses a webcam and microphone to ensure academic integrity. To use this service, you must have set to a computer with a webcam and a microphone. There will be a cost for using the online proctoring services.
- x Note that you are required to have a computer with a functioning webcam and microphone or have access to a computer with a functioning web microphone to complete your exams.
- x See Canvas for detailed information about proctoring. If you are in a rural area or on a military base, you may need approval process.

# **EXTRA CREDIT**

Theremay be 30 points of extra credit available \( \frac{24}{24} \) of the course grade).

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

#### COMMUNICATION

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

E-mail: sara.avila@colorado.edu

- x Please remind me of what course you are takbig.ce I teachesveralcourses, I forget what course you are takingespecially at the beginning of the semester
- x I will respond to email within 128 hours, but usually within-22 hours. I always respond to emails. If you have not had a responsithin 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.

Additional ways to contact Dr. Avila:

x Online Office HoursTuesdays and Thursda9sam-10:30 am using Zoonor by appointment (

ECON3818: Introduction to Statistics

# **TUTORING**

The Economics Department provides a free drop

- 5. Treat people the same as you would faceface. In other words, it is easy to hide behind the computer. In some caseit empowers people to treat others in ways they would not in person. Remember there is a person behind the name on your screen. Treat all with dignity and respect and you can expect that in return.
- 6. Respect the time of others. This class is going to irequou to work in groups. Learn to respect the time of others in your group and your experience will be much better. Always remember that you are not the only person with a busy schedule, be flexible. Do not procrastinate! You may be one that works bestith the pressures of the deadline looming on you, but others may not be that way. The same is true for the reverse. The key to a successful group is organization, communication and a willingness to do what it takes to get it done.

Website:http://www.albion.com/netiquette/corerules.html

Compiled by Melissa Landin, Instructor, Dept. of Communication, Inver Hills Community College, mlandin@inverhills.edu

# TECHNOLOGY REQUIREMENTS AND SUPPORT

What are the basic computer specifications for Canvas?

x Visit the official Canvas Computer Specifications Pfor the latest list of recommended system requirements.

Which browsers does Canvas support?

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

# SkillRequirements

- x 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
  - o How to locate a file and attach it to an email or upload a file into a course
  - o How to copy and paste
  - o Must know basic typing skills and keyboard commands
  - o Must know basic computer terminology

# TECHNICAL SUPPORT

- x Canvas technical suppolf. you are experiencing issues with Canvas please contact:
  - o CU Boulder's Help desk at 3035-4357 (5HELP) onelp@colorado.edu5-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 dutingversity Holidays
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  - o Within the Canvas App, you can search the Canvas support guides, Reportem Prob chat with Canvas Support 24 hours a day, 7 days a week.
- x MyLabtech support:
  - o <a href="https://help.pearsoncmg.com/ccng/ccng\_instr/ccng\_xmel\_instr\_help\_supplwritlge.h">https://help.pearsoncmg.com/ccng/ccng\_instr/ccng\_xmel\_instr\_help\_supplwritlge.h</a> tml or https://support.pearson.com/getsupport/s/

addresses these concerns, and individuals who believe they have been subjected to misconduct can contact OIEC at 30492-2127 or email cureport@colorado.edu. Information about university policies, reporting options and support resources can be found on the C website

Please know that faculty and graduate instructors have a responsibility to inform OIEC when they are made awae of any issues related to these policies regardless of when or where they occurred to ensure that individuals impacted receive information about their rights, support resources, and resolution options. To learn more about reporting and support options avariety of concerns, visit v v v v v CE lt.

# **RELIGIOUS HOLIDAYS**

Campuspolicy 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 attenda the campus policy regarding religious observance for full details. 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.

For more information on the digious holidays most commonly observed by CU Boulder students consult the online interfaith calendar

# STUDENT PRONOUNS

CU Boulder recognizes that students' legal informadoesn't always align with how they identify. Students may update their preferred names and pronouns via the student portal; those preferred names and pronouns are listed on instructors' class rosters. In the absence of such updates, the name that appears on the class roster is the student's legal name.

# REQUIREMENTS FOR COSID

As a matter of public health and safety, all members of the CU Boulder community and all visitors to campus must follow university, department and building requirements an public health orders in place to reduce the risk of spreading infectious disease. CU Boulder currently requires 190VID vaccination and boosters for all faculty, staff and students. Students, faculty and staff must upload proof of vaccination and boosters file for an exemption based on medical, ethical or moral grounds through the MyCUHealth portal.

The CU Boulder campus is currently maptional. However, if public health conditions change and masks are again required in classrooms, students fath to adhere to masking requirements will be asked to leave class, and students who do not leave class when asked or who refuse to comply with these requirements will be referred to Student Conduct and Conflict Resolution. For more information, see the policy on classroom behavior and the Student Code of Conduct. If you require accommodation because a disability prevents you from fulfilling these safety measures, please follow the steps in the

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