

ECON 3818: Intro to Statistics with Computer Applications
TTH 12:45 PM - 2:00 PM
Room: CASE E380

Instructor: Lilla Marein

E-mail: lilla.marein@colorado.edu

Office Hours: Mondays 12 - 2 PM via Zoom. Meeting ID: 912 1154 6425

Please allow me 24 hours to respond to all emails. If you need help with course material, please see me during my office hours. If you need more help than can be provided in office hours, consider visiting the department's undergraduate tutor or viewing the department's private tutor list: http://www.colorado.edu/econ/undergraduate/tutor_list.pdf

Course Description: Understanding statistics is an important component of economics, and life in general. For your economics career, this class will be essential when moving on to econometrics, one of the most useful applications of economic knowledge.

Prerequisites: Econ 2010 & 2020. Econ 1088 (or an approved similar course). This class requires algebra and calculus so exposure to these concepts is required.

Required Materials:

- Textbook: SaplingPlus for *The Basic Practice of Statistics* by David Moore, William Notz, and Michael A Fligner. ISBN: 9781319213237
- Computer Application: **R** is a free programming language that is utilized primarily for data analysis. We will spend time throughout the course working on **R** exercises through the **RStudio** interface.

Grading:

10% Homework	20% Midterm 1
10% R Exercises	20% Midterm 2
10% Recitation	30% Final Exam

Grading Scale:

Grade	Percentage	Grade	Percentage
A	$93 \leq x$	C	$73 \leq x < 77$
A-	$90 \leq x < 93$	C-	$70 \leq x < 73$
B+	$87 \leq x < 90$	D+	$67 \leq x < 70$
B	$83 \leq x < 87$	D	$63 \leq x < 67$
B-	$80 \leq x < 83$	D-	$60 \leq x < 63$
C+	$77 \leq x < 80$	F	$x < 60$

Homework: There will be weekly homework problems assigned through the Sapling website. These will be due by 11:59 pm on most Sundays. You can access assigned homework problems through Canvas. No late homework will be accepted. You cannot make up missed homework; instead, your two lowest homework grades will be dropped.

R Exercises: There will be five **R** exercises throughout the semester due on Thursdays. R exercises will each be worth 2% for a total of 10% toward your final grade. We will work on these assignments in class the week before they are due.

Recitation: Your grade in recitation will account for 10% of your final grade in the course. Refer to your TA's syllabus to see how recitation grades are determined.

Exams: There will be two midterms throughout the semester. They will consist of multiple choice questions along with a few free response questions. There will be no make-up exams, but if you miss an exam for an excusable reason, then the weight of that exam will be added to the final exam. You must inform me of any accommodations **two weeks** before an exam. All exams will be administered and timed on Canvas. They will be open-note, but you cannot rely on the help of other individuals.

Tentative Course Outline

- Bring your laptop on *R days*!
- R exercises are due on **Thursdays** one week after in-class practice.
- Homework due on **Sundays at 11:59 p.m.**
- All exams will be administered on Canvas.

Week	Topic	Due
Week 1, Aug 24-28	CH 1, CH 2, <i>R day</i>	HW-1
Week 2, Aug 31-Sep 4	CH 12, CH 13	R-1, HW-2
Week 3, Sep 7-11	CH 14, CH 3, <i>R day</i>	HW-3
Week 4, Sep 14-18	Distribution, Expectation/Variance	R-2
Week 5, Sep 21-25	CH 8, 9	HW-4
Week 6, Sep 28-Oct 2	Midterm 1 , CH 15	
Week 7, Oct 5-9	Estimation, CH 16	HW-5
Week 8, Oct 12-16	CH 17, <i>R day</i>	HW-6
Week 9, Oct 19-23,	CH 18, CH 20	R-3, HW-7
Week 10, Oct 26-30	CH 21, <i>R day</i>	
Week 11, Nov 2-6	Midterm 2 , <i>R day</i>	R-4
Week 12, Nov 9-13	CH 4, CH 6	HW-8
Week 13, Nov 16-20	CH 5, CH 26	R project, HW-9
Week 14, Nov 23-25	CH 26, <i>R day</i>	HW-10
... Nov 26, 27	<i>No class on Nov 26; Online starting next week.</i>	
Week 15, Nov 30-Dec 4	Review	R-5
Finals Week	Final Exam: Saturday, Dec 12, 4:30-7:00 pm	

The schedule is subject to change, and any changes will be announced in class.

University Policies

CLASSROOM BEHAVIOR

Both students and faculty are responsible for maintaining an appropriate learning environment in all instructional settings, whether in person, remote or online. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important 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 [classroom behavior](#) and the [Student Code of Conduct](#).

REQUIREMENTS FOR COVID-19

As a matter of public health and safety due to the pandemic, all members of the CU Boulder community and all visitors to campus must follow university, department and building requirements, and public health orders in place to reduce the risk of spreading infectious disease. Required safety measures at CU Boulder relevant to the classroom setting include:

- maintain 6-foot distancing when possible,
- wear a face covering in public indoor spaces and outdoors while on campus consistent with state and county health orders,
- clean local work area,
- practice hand hygiene,
- follow public health orders, and
- if sick and you live off campus, do not come onto campus (unless instructed by a CU Healthcare professional), or if you live on-campus, please alert [CU Boulder Medical Services](#).

Students who fail to adhere to these 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 policies on [COVID-19 Health and Safety](#) and [classroom behavior](#) and the [Student Code of Conduct](#). If you require accommodation because a disability prevents you from fulfilling these safety measures, please see the “Accommodation for Disabilities” statement on this syllabus.

Before returning to campus, all students must complete the [COVID-19 Student Health and Expectations Course](#). Before coming on to campus each day, all students are required to complete a [Daily Health Form](#).

Students who have tested positive for COVID-19, have symptoms of COVID-19, or have had close contact with someone who has tested positive for or had symptoms of COVID-19 must stay home and complete the [Health Questionnaire and Illness Reporting Form](#) remotely. In this class, if you are sick or quarantined, please send me an email to let me know as soon as possible so that I can assist you in staying on track in the course.

ACCOMMODATION FOR DISABILITIES

If you qualify for accommodations because of a disability, please submit your accommodation letter from Disability Services to your faculty member in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities in the academic environment. Information on requesting accommodations is located on the [Disability Services website](#). Contact Disability Services at 303-492-8671 or dsinfo@colorado.edu for further assistance. If you have a temporary medical condition, see [Temporary Medical Conditions](#) on the Disability Services website.

PREFERRED STUDENT NAMES AND PRONOUNS

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

HONOR CODE

All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the Honor Code. Violations of the policy may include: 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 (honor@colorado.edu); 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 at the [Honor Code Office website](#).

SEXUAL MISCONDUCT, DISCRIMINATION, HARASSMENT AND/OR RELATED RETALIATION

The University of Colorado Boulder (CU Boulder) is committed to fostering an inclusive and welcoming learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct (harassment, exploitation, and assault), intimate partner violence (dating or domestic violence), stalking, or 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 cureport@colorado.edu. Information about the OIEC, university policies, [anonymous reporting](#), and the campus resources can be found on the [OIEC website](#).

Please know that faculty and instructors have a responsibility to inform OIEC when made aware of incidents of sexual misconduct, dating and domestic violence, stalking, 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. See the [campus policy regarding religious observances](#) for full details: