

ECON 3818: Intro to Statistics with Computer Applications
MWF 10:00 AM - 10:50 AM
Room: HLMS 267

Instructor: Lilla Marein

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Office: ECON 414

Office Hours: Monday 10:50 AM - 12:50 PM and by appointment

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: *The Basic Practice of Statistics*. David Moore, William Notz, and Michael A Fligner.

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% Recitation	20% Midterm 2
5% R Exercises	30% Final Exam
5% R Project	

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 Project & Exercises: There will be five simple **R** exercises and one data project throughout the semester due on Fridays in class. The R project will be worth 5% and the R exercises will each be worth 1% for a total of 5% toward your final grade. We will work on these assignments in class the week before they are due. Please submit a hard copy of your completed R assignments during class. If you are absent the day an R assignment is due, you must email me a copy *before* class starts.

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. You will be allowed to bring a 3x5" index card with notes to refer to during the exam. Any tables required will be provided by the instructor. There will be no make-up exams. If you miss an exam and there is documentation of a medical or family emergency, 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.

Extra Credit: The only extra credit opportunity will be through iClickers. There will be roughly 2-3 clicker questions per lecture. A maximum of five percentage points will be added to your grade for excellent clicker participation. Make sure to register your iClickers, instructions provided here:

<https://oit.colorado.edu/tutorial/cuclickers-iclicker-remote-registration>

Tentative Course Outline

Bring your laptop on *R days*!

R exercises are due on **Fridays in class** one week after in-class practice.

Homework due on **Sundays at 11:59 p.m.**

Week	Topic	Due
Week 1, Jan 13-17	CH 1, CH 2, <i>R day</i>	HW-1
Week 2, Jan 20-24	CH 12, CH 13	R-1, HW-2
Week 3, Jan 27-31	CH 14, CH 3, <i>R day</i>	HW-3
Week 4, Feb 3-7	Distribution, Expectation/Variance	R-2
Week 5, Feb 10-14	CH 8, 9	HW-4
Week 6, Feb 17-21	Midterm 1 , CH 15	
Week 7, Feb 24-28	Estimation, CH 16	HW-5
Week 8, Mar 2-6	CH 17, <i>R day</i>	HW-6

