

ECON 1078: Mathematical Tools for Economists 1  
Spring 2022  
Section 003  
*Online Course*

Course Canvas Page: <https://canvas.colorado.edu/courses/80952>

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**Office Hours:** Wednesdays 3 to 5 PM Mountain Standard Time or by appointment

**Zoom ID:** 953 3507 7477

**Direct link:** <https://cuboulder.zoom.us/j/95335077477>

**Course Description** This course is the first of a two-course sequence (ECON 1078 and ECON 1088), designed to introduce a variety of mathematical concepts which will be used extensively in future economics coursework. Math will help you understand and describe the way firms and consumers optimize decisions subject to constraints. It will also provide the building blocks you will use in your statistics and econometrics courses, which will enable you to apply economics concepts to real-world data. Topics include logic, algebra, number theory, set theory, graphs, functions, and more. These skills are crucial to the study of economics.

**Online Format** This is an online course with no official class meeting times. Our meetings will be limited to virtual office hours. However, there are exam and assignment due dates and times you must adhere to. All lectures will be recorded and posted to Canvas. The recorded lectures will allow you to slowdown, fast forward, and pause lectures to increase comprehension.

**Prerequisites** There are no prerequisites for this course, though a solid understanding of high school math will serve you well. This class is the first of a two-course sequence (ECON 1078 and ECON 1088).

**Technology Requirements** This is an *online* course, therefore, some technology requirements are essential.

- A **computer** with a microphone, camera, internet access, and Google Chrome installed on it. this to take exams that will be proctored online and to access class materials.
- Access to a **printer** is also required in order to print problem sets downloaded from Canvas. I will make an exception for those with a tablet and electronic pen who can write *neatly* on PDFs using these tools.
- A **scanner or camera** to capture and upload your handwritten work on your assignments (unless you are submitting assignments written on a tablet with an electronic pen.)

*If you are unable to meet the technology requirements for this course, please contact me immediately.*

**Required Textbook** *Essential Mathematics for Economic Analysis. 5th Ed.* by Sydsaeter, Hammond, Strom. This textbook is also used in ECON 1088. It is okay to use an older edition for this course.

**Proctorio Exam Proctoring** To take the midterm exams and the final exam, you will be required to use Proctorio, an online proctoring tool. Proctorio allows students to complete an assessment at a remote location, such as their home, while helping to ensure the integrity of the exam. There is no cost to use this tool.

. 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.

**Proctorio Set Up Quiz:** Please complete [Setup and Verification Quiz](#) as soon as possible. If you have technical difficulties with this practice exam, email me immediately. If you do not complete the practice exam by February 4th (two weeks prior to the first midterm) and have technical difficulties that prevent you from completing the midterms or final exam, you will



## **Course Content**



## HONOR CODE

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 ([honor@colorado.edu](mailto: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 on the [Honor Code website](#).

## SEXUAL MISCONDUCT, DISCRIMINATION, HARASSMENT AND/OR RELATED RETALIATION

CU Boulder is committed to fostering an inclusive and welcoming learning, working, and living environment. The university 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 or against 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 email [cureport@colorado.edu](mailto:cureport@colorado.edu). Information about university policies, [reporting options](#), and the support resources can be found on the [OIEC website](#).

Please know that faculty and graduate instructors have a responsibility to inform OIEC when they are 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 their rights, support resources, and reporting options. To learn more about reporting and support options for a variety of concerns, visit [\\_\\_\\_\\_\\_](#).

## 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. Please email me at least two weeks prior to a scheduling conflict due to religious observance to arrange accommodations.

See the [campus policy regarding religious observances](#) for full details.