

ECON 1078-002 MATHEMATICAL TOOLS FOR ECONONMISTS 1

University of Colorado Boulder

Department of Economics

Fall 2024

Instructor: Tyler Anderson

Time: MWF 11:15 AM – 12:05 PM

Email: tyler.anderson-4@colorado.edu

Location: Duane Physics G131

Office: ECON 304

Office Hours: MW 12:30 – 2:00 PM

Course Description: This course is the first in a two-course sequence intended to provide students with the tools and mathematical background necessary to complete upper-level economics work. This course will start with college-level algebra and cover topics such as equations, set theory and logic, summation notation, and functions including linear functions and polynomials.

Textbook: Knut Sydsaeter, Peter Hammond, and Arne Strom, Essential Mathematics for Economic Analysis, 6th Edition. (required)

(you may use an alternative edition- just make sure to match up the relevant chapters).

This textbook is also used for ECON 1088.

Grading:

Homework	20%
Midterm 1	25%
Midterm 2	25%
Final Exam	30%

Letter Grade Distribution:

A	93.00 - 100
A-	90.00 – 92.99
B+	87.00 – 89.99
B	83.00 – 86.99
B-	80.00 – 82.99

C+	77.00 – 79.99
C	73.00 – 76.99
C-	70.00 – 72.99
D+	67.00 – 69.99
D	63.00 – 66.99
D-	60.00 – 62.99
F	Below 60.00

Individual exam grades or overall course grades may be curved to conform to departmental standards.

Homework: There will be approximately 6 graded homework assignments throughout the semester. Homework assignments are to be completed individually. Homework assignments should be submitted to Canvas as pdf, jpg, or png file. I will drop your lowest homework grade at the end of the semester. Please show your work when submitting homework, **answers without work shown will not receive full credit.**

Exams: All exams will be in-person. Exams will be closed-note, closed-book. Calculators will not be allowed during exams; all calculations will be simple enough to without one. No make-up exams will be given. If you know in advance that you need to miss an exam, please email me at least two weeks in advance. If you need to miss a midterm exam due to an emergency, that exam will be grade will be dropped and its weight will be split between the other two exams if appropriate documentation is provided. In all other cases, a missed exam will result in a grade of zero. The final exam cannot be missed for any reason. If an emergency arises, please let me know as soon as possible so that accommodations can be made. The final exam for this course is Sunday, December 15th from 1:30 – 4:00 pm.

University Policies:

Classroom Behavior:

Students and faculty are responsible for maintaining an appropriate learning environment in all instructional settings, whether in person, remote, or online. Failure 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, marital status,

political affiliation, or political philosophy.

For more information, see the [classroom behavior policy](#), the [Student Code of Conduct](#), and the [Office of Institutional Equity and Compliance](#).

Accommodation for Disabilities, Temporary Medical Conditions, and Medical Isolation:

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.

If you have a temporary illness, injury or required medical isolation for which you require adjustment, {Faculty: insert your procedure here for students to alert you about absence due to illness, injury, or medical isolation. Because of FERPA student privacy laws, do not require students to state the nature of their illness when alerting you. Do not require "doctor's notes" for classes missed due to illness; campus health services no longer provide "doctor's notes" or appointment verifications.}

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; 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.

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 Honor Code may include but are not limited to: plagiarism (including use of paper writing services or technology [such as essay bots]), 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. Understanding the course's syllabus is a vital part in adhering to the Honor Code.

All incidents of academic misconduct will be reported to Student Conduct & Conflict Resolution: StudentConduct@colorado.edu. Students found responsible for violating the [Honor Code](#) will be assigned resolution outcomes from the Student Conduct &

Conflict Resolution as well as be subject to academic sanctions from the faculty member. Visit [Honor Code](#) for more information on the academic integrity policy.

Sexual Misconduct, Discrimination, Harassment and/or Related Retaliation:

CU Boulder is committed to fostering an inclusive and welcoming learning, working, and living environment. University policy prohibits [protected-class](#) discrimination and harassment, sexual misconduct (harassment, exploitation, and assault), intimate partner abuse (dating or domestic violence), stalking, and related retaliation by or against members of our community on- and off-campus. The Office of Institutional Equity and Compliance (OIEC) addresses these concerns, and individuals who have been subjected to misconduct can contact OIEC at 303-492-2127 or email CUreport@colorado.edu. Information about university policies, [reporting options](#), and [support resources](#) including confidential services can be found on the [OIEC website](#).

Please know that faculty and graduate instructors must inform OIEC when they are made aware of incidents related to these policies regardless of when or where something occurred. This is to ensure that individuals impacted receive outreach from OIEC about resolution options and support resources. To learn more about reporting and support for a variety of concerns, visit the [Don't Ignore It page](#).

Religious Accommodations:

Campus policy requires faculty to provide reasonable accommodations for students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Please communicate the need for a religious accommodation in a timely manner. In this class, please communicate any religious accommodations that are needed as soon as possible. We will schedule alternative exam times as necessary.

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

Mental Health and Wellness:

The University of Colorado Boulder is committed to the well-being of all students. If you are struggling with personal stressors, mental health or substance use concerns that are impacting academic or daily life, please contact [Counseling and Psychiatric Services \(CAPS\)](#) located in C4C or call (303) 492-2277, 24/7.

Free and unlimited telehealth is also available through [Academic Live Care](#). The [Academic Live Care](#) site also provides information about additional wellness services on campus that are available to students.