



**Prerequisites**

Available to students who have completed *ECON 3070 Intermediate Microeconomic Theory*. Completion of *ECON 4808 Introduction to Mathematical Economics*, or the equivalent, is desirable, but not necessary. Please note that the course meets a requirement for The Actuarial Studies Certificate Program. The course will be taught with some mathematical emphasis. Students should be familiar with microeconomic principles, algebra, calculus, optimization techniques and probability covered in prerequisite classes, and be comfortable expressing these concepts in short-answer questions in homework assignments and examinations.

**Instruction Method**

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Homework will consist of short-answer and problem-solving questions that require you to use diagrammatic, mathematical and written skills to prove your answers (i.e., provide

**Campus and department policies**

The Department of Economics enforces prerequisites. Students without the appropriate prerequisite(s) may be administratively dropped.

Students and faculty each have responsibility for maintaining an appropriate learning environment. 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 differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. For more information, see the policies on [classroom behavior](#) and the [Student Code of Conduct](#).

The University of Colorado Boulder (CU Boulder) is committed to fostering a positive and welcoming learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct (including sexual assault, exploitation, harassment, dating or domestic violence, and stalking), discrimination, and 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](mailto: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, discrimination, harassment and/or related retaliation, to ensure that individuals impacted receive information about options for reporting and support resources.

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](mailto:honor@colorado.edu)); 303-492-5550). Students who are 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](#).

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  
interferes with your ability to participate in this course, please contact the [Office of  
Disability Resources](#) at [disability@colorado.edu](mailto:disability@colorado.edu).

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, please inform me as soon as possible if you may be absent due to  
illness or quarantine.

If you qualify for accommodations because of a disability, please submit your

**Class schedule, lectures, homework etc.**

Proposed topics are provided in the table over the page. Please note that the outline of topics is subject to change during the semester depending on how fast we work through the proposed topics (and the extent to which we are adversely impacted by external factors). Any changes will be announced in class and online through Canvas.

Please check Canvas and the syllabus regularly for changes.

Lecture notes and videos, assignment questions and solutions, and additional materials will be available through Canvas.

**Table 1. Proposed course outline**

Week	Date	Topic
1.	Aug 25, 27	<b>Part I. Review</b> - Introduction - Game theory
2.	Sep 1, 3	- Game theory
3.	Sep 8, 10	- Utility maximization with certainty
4.	Sep 15, 17	<b>Part II. Risk &amp; Information</b> - Uncertainty
5.	Sep 22, 24	- Uncertainty
6.	Sep 29, Oct 1	- Insurance and diversification
7.	Oct 6, 8	- Risky assets
8.	Oct 13, 15	- <i>Mid-term examination</i>
9.	Oct 20, 22	<b>Part III. Imperfect Information</b> - Adverse selection
10.	Oct 27, 29	- Adverse selection
11.	Nov 3, 5	- Moral hazard
12.	Nov 10, 12	- <i>Mid-term quiz</i>
13.	Nov 17, 19	<b>Part IV. Law &amp; Economics</b> - Crime and punishment
14.	Nov 24, 26	- <i>No classes: Fall break &amp; Thanksgiving</i>
15.	Dec 1, 3	- Crime and punishment - Review and conclude
16.	Dec 8 Dec 9 ó 13	- Reading day - <i>Final examination period</i> (date to be determined)