

# Syllabus: ECON 4002.02-101 (17086)

## Intermediate Macroeconomics Theory

**Autumn 2022**

Instructor: Hui-Jun Chen

Last Update: December 21, 2022

Lastest Version: [Click Here](#)

### Course Overview

- Course website:
  - Materials: [Webpage](#)
  - Quizzes / Exam: [Carmen](#)
  - Calculus videos: [The Essence of Calculus](#)
- Meeting Time: Monday, Wednesday 12:45PM - 2:05PM
- Location: Room 030, Hitchcock Hall, 2070 Neil Ave, Columbus, OH 43210, USA
- Class Dates: Aug 23, 2022 - Dec 15, 2022
- Email address: [chen.9260@buckeyemail.osu.edu](mailto:chen.9260@buckeyemail.osu.edu).
- Please do not hesitate to email me and set an appointment outside of regular office hour. To get quicker email reply, I would prefer you to:
  1. Send email to [chen.9260@buckeyemail.osu.edu](mailto:chen.9260@buckeyemail.osu.edu) but NOT Carmen email
  2. Use [E4002] at the beginning of your subject title.
    - example title: [E4002] Question regarding Extra credit
- I will reply your email within 2 *business day*.
- Office hour: Monday and Wednesday, 2:30PM - 3:30PM, at Room 307, Arps Hall.

## Grades

Categories	Points
Problem sets on course material	20 points
Quizzes on Calculus videos	20 points
Midterm Exam	25 points
Final Exam	25 points
Attendance	10 points
Total	100 points

*See course schedule, below, for due dates*

## Grading Policy

### Quizzes / Exams

Weekly quizzes in this class: Calculus materials. You will have **unlimited** attempts and **unlimited time** per attempt for quizzes of Calculus materials. When calculating the final grade, I will **drop two quiz with the lowest grade** in each category (except Quiz on Calculus, Ch. 10 & 11).

The exact due date and time for quizzes and exams should refer to the schedule below and the setting on Carmen. In principle, all quizzes are due on **Sunday 11:59pm**, and the answer is available on **next Monday**.

Late quizzes are not accepted, unless you have formal excuse (require formal documentation, and the **instructor still has rights to decide whether to extend the quiz / exams for this excuse**).

Final exam are cumulative, so the content from the midterm is also included in final exam.

## Quizzes and Examinations Integrity Policies

**Quizzes and Problem Sets:** Discussions are **encouraged**, but each person must hand in their own quiz on Carmen.

**Examinations:** Discussions are **forbidden**, either face to face or via online discussion board / Social media.

### Curving

If less than 40% of the students get A- or above, I will add some points to everybody until 40% of the students get A- or above, but I don't expect this to occur.

### Problem Sets

There are four problem sets and each of them worth 5 points. The way to calculate semester grade on problem set is by  $\frac{\text{correct answers}}{\text{total number of questions}} \times 5$ . For example, if there are 36 questions and you answer 30 correctly, then you will get  $\frac{30}{36} \times 5 \approx 4.16$  points in semester grade.

Problem sets will be answered on Carmen, which the answer required for Carmen points should be precisely related to the pdf file provided on the course website.

### **Midterm & Final weight change**

After the midterm exam, there will be a survey on Carmen asking whether you want to change the weight between midterm and final from 25 points each to 10 points for midterm and 40 points for final. This survey will due **before** the final exam date, and you cannot change the weight between midterm and final after you took the final exam.

## Tentative Course Schedule

Wk	Days	Quizzes and Deadlines	Topics and Readings
1	08/24	Syllabus Deadline: 08/28 11:59pm	Topic: Introduction
2	08/29 08/31	Essence of Calculus Ch.1 Deadline: 09/04 11:59pm	Topic: Measurement I Topic: Measurement II
3	09/07	Essence of Calculus Ch.2 Deadline: 09/11 11:59pm	Topic: Consumer Preference I
4	09/12 09/14	Essence of Calculus Ch.3 Problem Set 1 Deadline: 09/18 11:59pm	Topic: Consumer Preference II Topic: Examples
5	09/19 09/21	Essence of Calculus Ch.4 Deadline: 09/25 11:59pm	Topic: Firms Topic: Competitive Equilibrium
6	09/26 09/28	Essence of Calculus Ch.5 Problem Set 2 Deadline: 10/02 11:59pm	Topic: Social Planner's Problem Topic: Examples
7	10/03 10/05	Essence of Calculus Ch.6 Deadline: 10/09 11:59pm	Topic: Distorting Taxes Topic: Julia Setup and Syntax Topic: Algorithm and Solve Models
8	10/10	None	Midterm Review
8	10/12	None	Midterm
9	10/17 10/19	Essence of Calculus Ch.7 Deadline: 10/23 11:59pm	Topic: Two Period Consumer Problem Topic: Two Period Equilibrium
10	10/24 10/26	Essence of Calculus Ch.8 Deadline: 10/30 11:59pm	Topic: RBC Model Part 1: Consumer Topic: RBC Model Part 2: Firm
11	10/31 11/02	Essence of Calculus Ch.9 Problem Set 3 Deadline: 11/06 11:59pm	Topic: RBC Model Part 3: Competitive Equilibrium
12	11/07 11/09	Essence of Calculus Ch.10 Deadline: 11/13 11:59pm	Topic: RBC Model Part 4: Examples
13	11/14 11/16	Essence of Calculus Ch.11 Problem Set 4 Deadline: 11/20 11:59pm	Topic: RBC Model Part 5: Applications
14	11/21	None	Topic: Infinite Period Modelling Topic: Asset Pricing with Endowment Economy
15	11/28 11/30	None	Topic: Asset Pricing with Production Economy
16	12/05 12/07	None	TBA
17	12/12	None	Final Exam

# **Course learning outcomes**

## **Social Science Goal**

Students understand the systematic study of human behavior and cognition; the structure of human societies, cultures, and institutions; and the processes by which individuals, groups, and societies interact, communicate, and use human, natural, and economic resources.

## **Organizations and Politics Expected Learning Outcomes**

1. Students understand the theories and methods of social scientific inquiry as they apply to the study of organizations and politics.
2. Students understand the formation and durability of political, economic, and social organizing principles and their differences and similarities across contexts.
3. Students comprehend and assess the nature and values of organizations and politics and their importance in social problem solving and policy making.

Economics 4002.02 addresses the theories and methods of social scientific inquiry through discussion of supply and demand at the national level, and the measurement of national income and other macroeconomic measures, along with applications to current events.

Students will learn about the formation and durability of political, economic, and social organizing principles through discussions of the origin and structure of central banks as well as other international organizations, and fiscal and monetary policy. These topics will include discussion of various commonly accepted points of view.

Students will comprehend and assess the nature and values of organizations and politics and their importance in social problem solving and policy making through discussion of fiscal and monetary policy, business cycles and the Federal Reserve Bank, including its values and objectives.

## Ohio State's academic integrity policy

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's Code of Student Conduct and this syllabus may constitute "Academic Misconduct."

The Ohio State University's Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the University, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's Code of Student Conduct is never considered an "excuse" for academic misconduct, so I recommend that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct.

**If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct.** If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.

Other sources of information on academic misconduct (integrity) to which you can refer include:

- The Committee on Academic Misconduct web pages (COAM Home)
- Ten Suggestions for Preserving Academic Integrity (Ten Suggestions)
- Eight Cardinal Rules of Academic Integrity ([www.northwestern.edu/uacc/8cards.htm](http://www.northwestern.edu/uacc/8cards.htm))

Violating university or course rules as contained in the course syllabus or other information provided to the student in regard to student classroom conduct may result in your being removed from the class rolls.

## Other Policies

Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated. They should inform the instructor as soon as possible of their needs. Students who feel that they need an accommodation based on the impact of a disability should contact the Office for Disability Service. General information is available at <http://www.ods.ohio-state.edu>.

The core material contained within this syllabus will either be discussed in class or assigned as required reading.

If you decide not to complete the course, please formally withdraw from the class. Failure to officially withdraw will result in an “E” on your transcript and you will have foregone the opportunity to receive a refund (partial or full).

You are expected to be on time to class. In those events when you do arrive at class late, please find a seat as quietly and unobtrusively as possible. Do not interrupt class to hand in assignments or request materials. An opportunity will be provided for these activities at an appropriate time.

We will be doing in-class participation exercises that work via the internet. Please be sure to bring a mobile device (laptop, tablet, or smartphone) with you to class each day.

## **Economics Learning Center**

Information can be found at <https://economics.osu.edu/economics-learning-center>.

## **Grading scale**

- 93–100: A
- 90–92.9: A-
- 87–89.9: B+
- 83–86.9: B
- 80–82.9: B-
- 77–79.9: C+
- 73–76.9: C
- 70–72.9: C-
- 67–69.9: D+
- 60–66.9: D
- Below 60: E