

# Syllabus: ECON 4002.01

## Intermediate Macroeconomics Theory

### Spring 2025

Instructor: Hui-Jun Chen

Last Update: December 26, 2024

Lastest Version: [Click Here](#)

## Course Overview

- Course website:
  - Materials: [Webpage](#)
  - Quizzes / Exam: [Carmen](#)
- Meeting Time: Tuesday and Thursday 12:45 PM - 2:05 PM
- Location: Jennings Hall 155
- Class Dates: Jan 06, 2024 - Apr 29, 2024
- 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: By appointment on Zoom

## Grades

| Categories                      | Points     |
|---------------------------------|------------|
| Problem sets on course material | 20 points  |
| Midterm Exam                    | 35 points  |
| Final Exam                      | 35 points  |
| Attendance                      | 10 points  |
| Total                           | 100 points |

*See course schedule, below, for due dates*

*The grade automatically calculated by Carmen **does not** represent this metrics*

## Grading Policy

### Examinations Integrity Policies

**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.

### Exam

There are two exams and each of them worth 35 points. The way to calculate semester grade on exams is the similar to the Problem Sets if not otherwise noted.

Midterm exam will follow tentative schedule, while Final exam will follow the exam schedule announced by the university.

**Note:** The grade that automatically calculated on Carmen **does not** represent the the metrics on the syllabus.

## **Attendance**

If there are more than 50% of students attend the class, then I will not take attendance. If I have not taken attendance until the end of semester, then every students will be granted the entirety of the attendance points. If I start to take attendance, then I will spread 5 to 10 attendance check across the rest of the semester, and the attendance points will be recorded accordingly.

## Tentative Course Schedule

| Wk | Days            | Deadlines                                | Topics and Readings   |
|----|-----------------|--|---|
| 1  | 01/07<br>01/09  |  | Topic: Introduction<br>Topic: Measurement I   |
| 2  | 01/14<br>01/16  |  | Topic: Measurement II<br>Topic: Consumer Preference I                                 |
| 3  | 01/21<br>01/23  | Problem Set 1<br>Deadline: 02/02 11:59pm | Topic: Consumer Preference II<br>Topic: Examples                                      |
| 4  | 01/28<br>01/30  |  | Topic: Firms<br>Topic: Competitive Equilibrium  |
| 5  | 02/04<br>02/06  |  | Topic: Social Planner's Problem<br>Topic: Examples                                    |
| 6  | 02/11<br>02/13  | Problem Set 2<br>Deadline: 02/23 11:59pm | Topic: Distorting Taxes<br>Customized Class: TBA                                      |
| 7  | 02/18<br>02/20  |  | Customized Class: TBA<br>Midterm Review   |
| 8  | 02/25           |  | Midterm   |
| 9  | 02/27           |  | Midterm Recap<br>Topic: Two Period Consumer Problem                                   |
| 10 | 03/04<br>03/06  |  | Topic: Two Period Consumer Problem<br>Topic: Two Period Equilibrium                   |
| 11 | 03/11<br>03/13  |  | Spring break  |
| 12 | 03/18<br>03/20  |  | Topic: RBC Model Part 1: Consumer<br>Topic: RBC Model Part 2: Firm                    |
| 13 | 03/25<br>03/27  | Problem Set 3<br>Deadline: 04/06 11:59pm | Topic: RBC Model Part 3: Competitive Equilibrium<br>Topic: RBC Model Part 4: Examples |
| 14 | 04/01<br>04/03  |  | Topic: RBC Model Part 5: Applications<br>Topic: Solow Model and Dynamic Programming   |
| 15 | 04/08<br>04/10  | Problem Set 4<br>Deadline: 04/20 11:59pm | Topic: Asset Pricing: Endowment Economy<br>Topic: Asset Pricing: Production Economy   |
| 16 | 04/15<br>04/17  |  | Final Review  |
| 17 | 04/22-<br>04/29 |  | Final Exam: Exact Date TBA  |

# **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.

This class 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