
Course: ECN 485(SL: 71155)
Term Period: January 21 - May 6
Classroom: BA 130
Time: TTH 1:40 - 2:55 pm
Office: BAC 677 (Phone number: 965 - 6574)
Office Hours: TTh 3:30 - 5:00 pm
Email: miniahn@asu.edu

Course description:

Economics 485 is designed for (1) undergraduates planning on going to graduate school in economics or finance, (2) graduate students in economics who need to improve their mathematical skills, and (3) non-economics graduate students who intend to graduate courses in economics. This course will introduce the students to the application of mathematical techniques and modelling to economic theory.

Required Textbook:

Chiang, A.C., *Fundamental Methods of Mathematical Economics*, Third Edition, McGraw Hill Inc., 1984.

Course Outline:

The schedule listed below is just an estimate. Adjustments, if necessary, may happen during the term.

1. Introduction and Set theory.
Chap. 1 - 2.
2. Equilibrium Models.
Chap. 3.
3. Linear Algebra.
Chap. 4 - 5.

First Mid-term Exam: February 23 (Monday)

4. Calculus.
Chap. 6 - 7.

5. Comparative Statics.
Chap. 8.
6. Unconstrained Optimization I.
Chap. 9 - 10.

Second Mid-term Exam: April 6 (Monday)

7. Unconstrained Optimization II.
Chap. 11.
8. Optimization with Equality Constraints.
Chap. 12.
9. Integration.
Chap. 13.

Final Exam: May 13 (Wednesday), 2:40 - 4:30 pm.

Grade:

There will be 3 take-home assignments, the best two of which count 10% of the final grade (that is, you can skip one assignment). The first two mid-term exams will count 20 and 30% of your final grade, respectively. The final exam will count 40% of your final grade. The final exam is comprehensive one. An exercise problem set will be provided prior to each exam. Make-up exams will not be given to you except under the most extraordinary circumstances. Also, make-up exams will be granted only with prior notice.

Readings:

The lecture will not cover all topics in the textbook. At the same time, some topics in the lecture will not be covered in the book. Therefore, I urge you to participate in the class. You are responsible for all topics covered in class. Your class attendance could be a crucial consideration when your performance is near borderlines.

Some Class Etiquettes

- Do not leave the classroom during regular class hours without prior notice.
- Do not discuss unimportant stuffs with your adjacent classmates during regular class hours.
- Please try not to be late for class.