Textbook:
A.C. Chiang: *Fundamental Methods of Mathematical Economics*, 3rd ed.,
McGraw-Hill, 1984
(Instructor's Manuals are reserved at the Norlin Library)
Problem Sets from Dowling (3 copies reserved in the Norlin Library).

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<th>Date</th>
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<td>8/29/91</td>
<td>Ch. 3</td>
<td>Economic Models and Equilibrium Analysis (3.1-3.3, 3.5)</td>
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<td>Matrix Algebra (4.1, 4.2, 4.4-4.6)</td>
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<td>Inverse Matrix and Cramer's Rule (5.2, 5.4-5.6)</td>
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<td>Final Exam (Chapters 3-12) – 100 points</td>
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Note: Check your final exam schedule during the first week of the semester. If you are concerned about the possibility of taking three or more final exams on the same day, please make any desired schedule adjustment during the drop-add period.

To Graduate Students (taking Econ. 5808). In addition to regular classwork, the final exam will include the second part of chapter 8 and the entire contents of chapter 12. Extra classes may be held for these parts if desired. (These parts will not apply to the undergraduate students).

HOMEWORK and QUIZ: Exercises from chapters will be announced in the classes. Each homework assignment will be graded on a 10-point scale. Credit will be given only to the homework that is handed-in before or on the due date and time. Occasionally, an exercise or quiz will be given in the class. The quiz will be graded on the basis of 10 points.

SEMESTER GRADES: The semester grade will consist of 3 parts - Exam scores (50% for midterm exams, 35% for the final), Homework scores (10%), and quizzes (5%). Probable cutoff points are in the vicinity of 90% (A-), 80% (B-), 70% (C-), 60% (D-), and some curving may be used. Graduates and undergraduates will be graded separately.

NOTES:

1. Please attend the classes regularly, I expect every student to participate in all classes.
2. Please prepare for the tests long before the test dates.
3. If you are going to miss or have missed the final exam, hand in an explanatory statement and documentation to the instructor. No credits will be given to unexcused absences in examinations.
4. Please come (or call) to talk with the instructor about any problems related to this course.

References for Econ. 4808/5808

Allen, R.G.D., (1938) *Mathematical Analysis for Economists*, St. Martins Press. Paperback edition available. This is a classic work with which every economist, whether or not he is interested in Mathematical Economics, must be acquainted. A must for graduate students.


Weber, J. E., *Mathematical Analysis – Business and Economics*

There are many other textbooks on mathematics for economists. Most of them are survey type with more emphasis in techniques than economic applications. The following texts emphasize applications.

**Textbooks on Micro and Macroeconomics which use more Mathematics**


**Textbooks on Calculus Recommended**

Apostol, T.M., (1962, 67) *Calculus, I, II*, Braisdel. (An introductory to intermediate text, good examples.)


The following Examination Rules will be strictly enforced.

1. Spread the chairs - you should not be too close to each other.
2. Put books in front under the blackboard, out of reach.
3. Use only the sheets of paper distributed to you in class. Do not use your own paper for tests and calculations.
4. Hand in all of the test papers and materials you have used in the test. Write "scrap" at the upper right corner of the paper if it does not contain your answers.
5. Make sure to number the questions clearly and write your name on each page of your test sheets.
6. No students are allowed to leave the classroom during the test. Please go to the washroom before the test starts.
Exercise 3.2 p40 1, 3, 4, 5
3.3 p45 1a, 3ad, 5a
3.4 p51 3
3.5 p53 1, 3
4.2 p66 1abcd, 2ab, 4ac
4.3 p74 1acfh, 2ab, 5ae
4.4 p78 1a, 3
4.5 p81 1abcd, 2abcd
4.6 p87 1, 2, 4, 6a
5.2 p98 1ace, 3, 4a
5.4 p107 21, 41, 5
5.5 p112 1a, 3ad
5.6 p115 1
5.7 p123 1, 2, 3, 4, 5
7.1 p159 lcd, 2be, 3cd
7.2 p169 1, 3af, 4, 5
7.3 p173 1, 4, 5
7.4 p177 lac, 2cd, 3cd, 4, 5ab
7.5 p184 1
8.1 p193 lab, 2, 3, 4
8.2 p195 1b, 2b, 3, 5
8.3 p198 1b, 2b
8.4 p203 1b, 2b
8.6 p255 1 - 6
9.2 p239 1ad, 2ab, 3, 4
9.3 p244 1ad, 4
9.4 p253 1a, 3, 4, 6
10.1 p273 1, 3b
10.2 p281 3ab, 4ac
10.3 p287 3abde
10.4 p291
10.5 p297 labgh, 3abh
10.7 p305 2, 3, 4, 6, 7, 9, 10
11.2 p318 1, 2
11.6 p363 1, 2, 6
12.2 p378 1ac, 3a
12.5 p409 1, 2, 5
12.6 p471 1ac, 6, 7ab
12.7 p430 1 - 7, 8ad, 9ab