Economics 3110 Mathematical Microeconomics Syllabus

Fall 2018

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<u>Course Goal</u>: To present intermediate microeconomics using calculus, so as to provide a deeper understanding of the underlying economic ideas. This course is especially recommended for students who might do graduate work in economics or finance. If you are not completely comfortable with calculus or you do not enjoy solving problems then this course is not for you. This course is a more challenging alternative to Econ 3010: you cannot receive credit for both 3010 and 3110. If you prefer not to take challenging classes 3010 would be a better choice.

<u>Accommodations</u>: Students who may need to discuss individual accommodations should please make an appointment to see me. If you are entitled to extra time on exams, please let me know as soon as possible so that I can make the necessary arrangements.

<u>Use of Class Material from Past Semesters, Answer Keys or Solutions Manuals</u>: I expect that students will *not* use exams, problem sets or other materials from previous semesters of this course to study for the exams or to complete assignments. In this class, using materials from past semesters, or using answer keys, or solutions manuals is considered a violation of the UVA honor code.

<u>Punctuality:</u> I expect you to be on time for classes. Late arrival disrupts everyone's concentration. Very occasionally, because of unusual circumstances, you may be late. If you are late you must send me, by the end of the working day, an email message explaining why you were late and outlining the steps you are taking to make sure that you will be not be late again. Failure to do so risks a penalty of up to 10% of your final grade.

<u>Text</u>: The following book is required:

Hal R. Varian: <u>Intermediate Microeconomics</u>, New York: Norton, 2014. The most recent edition is the 9th, but the 8th or 7th edition would be an excellent substitute. See the calendar below for reading assignments.

<u>Grading</u>: The plan is that up to 30 percent of your grade will be based on your performance in weekly class assignments. More information about these will be forthcoming shortly. The midterm counts 30 percent, and the final 40 percent. The midterm will be given in class at the regular time on the Thursday after the reading period. The final is on Tuesday December 18 at 9 a.m. Because I will be out of town after the end of classes it will not be possible to take the final at any other time. If you cannot take the final at the scheduled time you should drop this class.

Acceptable reasons for missing an exam are incapacitating illness, participation in a university-sponsored intercollegiate competition, family emergency, or major religious holidays. If you do miss an exam you should inform me of your excuse within 2 days of the exam. No make-up exams will be given, but if you have an acceptable excuse your other scores will be scaled up proportionately. (An adjustment may be made if the class performance indicates that the exam was significantly harder or easier than the other requirements.) If your excuse is unacceptable your grade will be similarly adjusted, but you will be subject to a 25 percent penalty. Examples of unacceptable excuses are oversleeping, losing your notes, or having had rehearsals the night before the exam.

CALENDAR

Below is a table indicating which chapters in the text I plan to cover, and when I plan to cover them. I will be trying to stick to the plan but we might find ourselves moving a bit faster or slower than the table indicates. Chapter numbers in Varian's 9th edition are in bold type (*if you are using the 8th or 7th edition, subtract 1 from numbers over 16*). The class webpage will have preliminary versions of the slides.

| Tuesday | Thursday |
|-------------------------|------------------------------|
| Aug 28 1 & 2 | Aug 30 3 |
| Sep 4 4 | Sep 6 5 |
| Sep 11 6 & 8 | Sep 13 8 & 9 |
| Sep 18 10 | Sep 20 11 & 12 |
| Sep 25 14 | Sep 27 15 |
| Oct 2 16 | Oct 4 19 |
| Oct 9 READING DAY | Oct 11 Midterm |
| Oct 16 20 & 21 | Oct 18 21 & 22 |
| Oct 23 23 & 24 | Oct 25 24 |
| Oct 30 25 | Nov 1 26 |
| Nov 6 28 & 29 | Nov 8 28 & 29 |
| Nov 13 32 | Nov 15 32 |
| Nov 20 33 | Nov 22 THANKSGIVING |
| Nov 27 34 and 35 | Nov 29 35 and 37 |
| Dec 4 36 | Dec 6 38 |
| | |

Tuesday December 18 FINAL EXAM: 9 a.m. to 12 noon

Other Sources: Students wanting to try other approaches to the material may find the following references useful:

- David A. Besanko and Ronald R. Braeutigam: Microeconomics, (2nd ed.), New York, Wiley, 2005
- Brian R. Binger and Elizabeth Hoffman: Microeconomics with Calculus, Glenview, IL: Scott, Foresman and Company, 1988.
- B. Curtis Eaton and Diane F. Eaton: Microeconomics, (3rd ed.), Englewood Cliffs, NJ: Prentice-Hall, 1995.
- Michael L. Katz and Harvey S. Rosen: Microeconomics, (2nd ed.), Homewood, IL: Irwin, 1994.

Don McCloskey: <u>The Applied Theory of Price</u>, (2nd ed.), New York: Macmillan, 1985.

Walter Nicholson: <u>Microeconomic Theory</u>, (7th ed.), Chicago, IL: Dryden. 1999 George J. Stigler: <u>The Theory of Price</u>, (4th ed.), New York: Macmillan, 1987.