

## **ECONOMICS 200B --- MICROECONOMIC THEORY MARKETS AND WELFARE**

The principal text for (most of) the first five weeks of the course is Starr, *General Equilibrium Theory: An Introduction*. Update Starr with corrigenda on the web at <http://object.cup.org/Errata/052156414Xerr.PDF> ; you will need an acrobat reader to access this material. In addition we will use Mas-Colell, Whinston, and Green, *Microeconomic Theory*, Varian, *Microeconomic Analysis*, 3rd edition, Kreps, *A Course in Microeconomic Theory*. Arrow and Scitovsky, *AEA Readings on Welfare Economics*, Feldman, *Welfare Economics and Social Choice Theory*, Laffont, *Fundamentals of Public Economics*, and additional readings.

Lectures on sections I, III - VI, will parallel the treatment in Starr's *General Equilibrium Theory: An Introduction*. Please read the designated portion of Starr on each topic before the class meeting on it.

Items shown with a bullet (•) are required reading for Economics 200B. Items shown with an asterisk (\*) on the syllabus were once designated by the UCSD Economics faculty as sufficient preparation for the qualifying examination in microeconomics for these topics. \*-designated material overlaps and extends •-designated material; suggestion: read both. Material denoted by a dagger (†) is intended to provide additional depth and breadth for the topic presented but is not intended to appear on a class or qualifying examination.

There will be weekly problem sets required. There will be a take-home midterm and take-home final exam.

### **I. The Robinson Crusoe model; the Edgeworth Box in Consumption and Factor allocation**

•Starr, *General Equilibrium Theory: An Introduction*, chap. 1

\*Mas-Colell, Whinston, and Green, chap. 15

\*Varian, chap. 17

\*Jones, R., "The Structure of Simple General Equilibrium Models," *Journal of Political Economy*, 1963, pp. 557 - 72.

†Nicholson, W., *Microeconomic Theory: Basic Principles and Extensions*, 2nd ed. chap 20, including appendices.

†Cornwall, R. R., *Introduction to the Use of General Equilibrium Analysis*, pp. 20-24, "Economists' View of Robinson Crusoe;" pp. 78 -83, "Partial versus General Equilibrium Analysis."

†Arrow, K. J., and F. H. Hahn, *General Competitive Analysis*, chap 1.

†Arrow, K.J., "General Economic Equilibrium: Purpose, Analytic Techniques, Collective Choice," *American Economic Review*, LXIV, v. 3, June 1974, pp. 253 - 272.

†Weintraub, E. R., "On the Existence of Competitive Equilibrium: 1930 - 1954," *Journal of Economic Literature*, XXI, March 1983, pp 1 - 39.

### **II. Partial Equilibrium, Comparative Statics, Consumer Surplus and Compensation Tests**

•\*Mas-Colell, Whinston, and Green, chap. 10



- \*Varian, chaps. 10, 13
- \*Kreps, sections 8.1 - 8.3
- Feldman Ch. 7
- \*Starrett, *Foundations of Public Economics*, chap. 14

### III. Competitive Equilibrium - Definition and Existence

- Starr, *General Equilibrium Theory: An Introduction*, 2.7, chaps 3 - 11.
- \*Mas-Colell, Whinston, and Green, Appendix M.I, chap. 17
- \*Varian, chap. 17, 18
- \*Kreps, sections 6.1 - 6.4
- Arrow-Hahn, chap. 7, appendix B.4.
- † Douglas Gale, "Bargaining and Competition Part I: Characterization" *Econometrica*, Vol. 54, No. 4. (Jul., 1986), pp. 785-806.
- † Malinvaud, E. *Lectures on Microeconomic Theory*, (1st ed., 1972) chap. 2, sections 1 - 8, chap. 3, sections 1 - 4; or same sections in the Revised edition (1985).
- † Cornwall, R. R., *Introduction to the Use of General Equilibrium Analysis*, pp. 1-42.
- † Russell, R. and M. Wilkinson, *Microeconomic Theory: A Synthesis of Modern and Neoclassical Microeconomic Theory*, chapters 15 and 16.
- † Arrow - Hahn, chapter 2.
- † Geanakoplos, J., "Arrow-Debreu Model of General Equilibrium," in Eatwell, Milgate, and Newman, *The New Palgrave: General Equilibrium* (1989).
- † Uzawa, H., "Walras' Existence Theorem and Brouwer's Fixed-Point Theorem," *Economic Studies Quarterly*, v. 8, 1962, pp. 59 -62.

### IV. Efficiency of Competitive Equilibrium, Fundamental Theorems of Welfare Economics

- Starr, *General Equilibrium Theory: An Introduction*, 2.8, chap. 12.
- \*Mas-Colell, Whinston, and Green, Appendix M.G, chap. 16
- \*Varian, chap. 17, 18
- † Cornwall, R. R., *Introduction to the Use of General Equilibrium Analysis*, chapter 4.
- † Arrow-Hahn, section 4-4
- † Debreu, *Theory of Value*, chapter 6.
- † Malinvaud, E. *Lectures on Microeconomic Theory*, (1st ed., 1972 or 2<sup>nd</sup> ed., 1985) chap. 4.
- † Russell, R. and M. Wilkinson, *Microeconomic Theory: A Synthesis of Modern and Neoclassical Microeconomic Theory*, chapter 17.
- † Koopmans, T. C., *Three Essays on the State of Economic Science*, essay I, part 2, "Competitive Equilibrium and Pareto Optimality."

### V. Time and Uncertainty -- futures markets

- Starr, *General Equilibrium Theory: An Introduction*, chap. 15.
- Debreu, G., *Theory of Value*, chapters 2, 7.
- \*Mas-Colell, Whinston, and Green, chap. 19
- \*Varian, chap. 19



†Arrow, K.J., "The Role of Securities in the Optimal Allocation of Risk-Bearing," *Review of Economic Studies*, v. 31, pp. 91 -96. Reprinted in Arrow, *Essays in the Theory of Risk-Bearing*.

†Radner, R., "Uncertainty and General Equilibrium," in Eatwell, Milgate, and Newman, *The New Palgrave: General Equilibrium* (1989).

†Magill, M., and W. Shafer, "Incomplete Markets," in Hildenbrand and Sonnenschein, eds, *Handbook of Mathematical Economics*, v. IV, pp. 1523 - 1614.

†Geanakoplos, J., "An Introduction to General Equilibrium with Incomplete Asset Markets," *Journal of Mathematical Economics*, v.19, 1990, pp. 1 -38.

## VI. Core of a Market Economy

- Starr, *General Equilibrium Theory: An Introduction*, chaps. 13, 14

- \*Mas-Colell, Whinston, and Green, chap. 18

- \*Varian, section 21.1

- \*Kreps, section 8.4

†Cornwall, R. R., *Introduction to the Use of General Equilibrium Analysis*, chap.5

†Debreu, G., and H. Scarf, "A Limit Theorem on the Core of an Economy," *International Economic Review*, v.4, (1963), pp. 235- 246.

•Ichiishi, T., *Game Theory for Economic Analysis*, sections 5.5, 5.6, and pp. 24, 25.

†Anderson, R.M., "An elementary core equivalence theorem," *Econometrica*, v. 46, no. 6, (Nov. 1978), pp. 1483 - 1488.

†Arrow-Hahn, chapter 8.

†Hildenbrand, W., "Cores," in Eatwell, Milgate, and Newman, *The New Palgrave: General Equilibrium* (1989).

## VII. Social Welfare Functions and Social Choice Theory

- Varian, ch. 17

- Feldman Ch. 8-10

- Sen, Amartya K., "Social Choice Theory," chapter 22, v. III, *Handbook of Mathematical Economics*, sections 1 & 2.

- Arrow & Scitovsky, *AEA Readings on Welfare Economics*, Arrow, "A Difficulty in the Concept of Social Welfare"

- Mas-Colell, Whinston & Green Ch. 21

- \*Mas-Colell, Whinston & Green 22A-C

## VIII. Externalities

- Feldman Ch. 5

- \*Varian Ch. 24

- Laffont Ch. 1, secs. 1.1-1.5

- \*Mas-Colell, Whinston & Green Ch. 11

†Ruff, L., "The Economic Common Sense of Pollution," *The Public Interest*, No. 19, Spring 1970, pp. 69-85.

†Coase, R.N., "The Problem of Social Cost," *Journal of Law and Economics*, 1960, 1-44.

†Cornwall, R. R., *Introduction to the Use of General Equilibrium Analysis*, chap. 6



† Hardin, G., "The Tragedy of the Commons," *Science*, 162 (1968), pp. 1243-1248.

#### **IX. Public Goods**

- \*Feldman Ch. 6
- \*Varian Ch. 23
- Laffont Ch. 2, secs. 2.1-2.4; Ch. 3, secs. 3.1-3.3
- \*Mas-Colell, Whinston & Green Ch. 11
- † R. Russell and M. Wilkinson, *Microeconomics: A Synthesis of Modern and Neoclassical Theory*, chapter 18.
- † Starrett, D.A., *Foundations of Public Economics*, section 16.3

#### **X. Second-Best Allocation Mechanisms: Equity, Efficiency, and Government Revenue**

- Varian Ch. 22
- \*Mas-Colell, Whinston & Green Ch. 22A-C
- Auerbach, A., *Handbook of Public Economics*, v.1, ch. 2, "The Theory of Excess Burden and Optimal Taxation"

#### **XI. The Space of Economies and Equilibria**

- Mas-Colell, Whinston & Green, ch. 17.D, 17.E
- † D. J. Brown and R. Matzkin, "Testable Restrictions on the Equilibrium Manifold," *Econometrica*, v. 64, 1996, pp. 1249-1262.

#### **XII. Economic Theory and its Critics**

- † Hahn, F.H., *On the Notion of Equilibrium in Economics*.
- † Kaldor, N., "The Irrelevance of Equilibrium Economics," *Economic Journal*, (1972).
- † McCloskey, D., "The Futility of Blackboard Economics," chap 3 in McCloskey, *The Vices of Economists---The Virtues of the Bourgeoisie*, Amsterdam University Press, 1996.
- † Gibbard, A. and H. Varian, "Economic Models," *Journal of Philosophy*, v.75, 1978, pp. 664-677.
- † Debreu, G., "Theoretic Models: Mathematical Form and Economic Content," *Econometrica*, v.54, no. 6 (Nov. 1986), pp. 1259-1270.
- † Koopmans, T.C., *Three Essays on the State of Economic Science*; essays II and III, "The Construction of Economic Knowledge" and "The Interaction of Tools and Problems in Economics."
- † McKenzie, L.W., "General Equilibrium," *The New Palgrave*.
- † Clower, R. W., "Axiomatics in Economics," *Southern Economic Journal*, v. 62, 1995, pp. 307-319.