

Models: M8-1, M8-2, M8-3, M8-4a, M8-4b

Model list:

M1-1a	profit maximization by a competitive firm
M1-1b	profit maximization by a competitive firm - illustrates Lagrangean
M2-1a	supply and demand model illustrating mcp
M2-1b	supply and demand model - add tax
M2-2a	maximizing utility subject to a budget constraint - Marshallian formulation
M2-2b	maximizing utility subject to a budget constraint - Hicksian formulation
M2-3a	maximizing profits by a competitive firm - production function
M2-3b	maximizing profits by a competitive firm - cost function
M3-1a	general equilibrium with two goods, two factors, one consumer - Marshallian
M3-1b	general equilibrium with two goods, two factors, one consumer - Hicksian
M3-1c	general equilibrium with two goods, two factors, one consumer - adds taxes
M3-2	general equilibrium with an initially slack activity
M3-3a	general equilibrium with a labor-leisure choice - Marshallian
M3-3b	general equilibrium with a labor-leisure choice - Hicksian
M3-4a	general equilibrium with two households
M3-4b	general equilibrium with two households - extensions
M3-5	exercise to identify calibration errors
M4-1	partial equilibrium monopoly model
M4-2	oligopoly model with free entry and exit
M4-3a	Cournot competition with continuous strategies
M4-3b	Cournot competition with continuous strategies - extension
M4-4	pure strategy Nash equilibria with discrete strategies
M5-1a	network and logistics optimization
M5-1b	network and logistics optimization - adds demand functions - nlp version
M5-1c	network and logistics optimization - adds demand functions - mcp version
M5-2	finance, optimal portfolio choice
M5-3	non-linear least squares as an NLP
M5-4	health insurance with moral hazard, adverse selection
M6-1	benchmark taxes, tax reform
M6-2	equal yield tax reform
M6-3	equal yield tax reform extended
M6-4a	public good provision
M6-4b	public good provision - optimal tax via Samuelson rule
M6-4c	public good provision - optimal tax via MPEC
M6-5	public infrastructure good
M6-6a	pollution externality
M6-6b	pollution externality - optimal tax via MPEC
M6-6c	pollution externality - optimal tax via Pigouvian formula

- M8-1 small open economy
- M8-2 tariffs and trade costs
- M8-3 small open economy with a benchmark tariff
- M8-4a small open economy with a benchmark quota - modeled as an endogenous tax rate
- M8-4b small open economy with a benchmark quota - modeled as supply/demand for licenses

Policies, Etiquette

E-mail policy: you may email me with small questions, but I tend not to answer questions that have been answered twice in class. *You are responsible for what is presented in class, including revisions to the syllabus and changes in mid-term dates.* Much of my communication with you will be via class email.

Class attendance policy: Since there is no textbook and we are making things up as we go along, class attendance is **mandatory**.

Athletics, clubs events, religion, weddings, etc. policy: all these things are known well ahead of time. If you have a conflict with an exam, tell me this week or forever hold your peace. I really have to insist that all absences including minor illnesses count as missed classes. That's the nature of this course.

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