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 hazzard, 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
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>M8-1</td>
<td>small open economy</td>
</tr>
<tr>
<td>M8-2</td>
<td>tariffs and trade costs</td>
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<tr>
<td>M8-3</td>
<td>small open economy with a benchmark tariff</td>
</tr>
<tr>
<td>M8-4a</td>
<td>small open economy with a benchmark quota - modeled as an endogenous tax rate</td>
</tr>
<tr>
<td>M8-4b</td>
<td>small open economy with a benchmark quota - modeled as supply/demand for licenses</td>
</tr>
</tbody>
</table>
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.

If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and www.Colorado.EDU/disabilityservices Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. The syllabus statements and answers to Frequently Asked Questions can be found at www.colorado.edu/disabilityservices

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