This course provides an intensive overview of the economic analysis of firms, industries, and markets. The overriding general constraint is the scarcity of resources. We examine the rationales for decisions by individual buyers and sellers, as well as how these decisions are aggregated through markets. Among other things, we explore the forms that competition can take, the role of industry structure, and the influences of government policies.

The course is intended to provide the participants with tools and conceptual frameworks that they can use to better understand and analyze business decision-making and the market and government-policy environment within which businesses operate. In addition, the course develops analytical tools and logic that are useful in the study of strategy, finance, marketing, and other business areas.

Some of the key concepts we will introduce include opportunity cost (which costs matter), economic incentives, optimizing within constraints imposed by scarcity, marginal analysis, strategic behavior (how to predict and respond to your rivals’ decisions), market efficiency (what does it mean for a market to work really well), asymmetric information (what happens when others know something you do not), and externalities (spillover cost or benefits, beyond direct market exchange).
Required Reading

Most of the required reading is in the textbook for the course. The standard textbook is the seventh edition of Baye (and all references to Baye in the standard sections “Required Preparation” refer to this seventh edition):


(It is also acceptable to use the sixth edition of Baye. The last two pages of the syllabus show the relevant information for the Baye assignments for the required preparation if you are using the sixth edition.)

Excerpts from several other books are also assigned. Students do not need to buy any of this other material. Hard copies of the excerpts will be distributed in class. (Note: These excerpts will only be available in hard copy—I will not post them on the Blackboard site.)

I strongly suggest that you read (perhaps quickly) the assigned reading before the class discussion of the topic. In the class discussion I will usually cover the concepts and issues that are most important and most challenging, reinforcing and extending what is in the required reading. I suggest that after the class session you review the assigned reading to solidify your understanding.

It is highly recommended to keep up with current economic developments, both for class purposes and for your own benefit. You can do this by reading the relevant articles in a good newspaper (e.g., Financial Times, Wall Street Journal, New York Times) or weekly magazine (e.g., Economist). You are encouraged to bring up relevant current events and issues for discussion in class, as time permits.

Problem Sets and Slides Used in Class

It is important that you develop the ability to use and apply the concepts and tools developed in the course. The best way to do this is to practice actively outside of the class sessions.

- Several problem sets will be distributed, with suggested answers attached. The problem sets are for your use in your efforts to master the material; answers need not be turned in.
- I will post examples of exam questions along with suggested answers, on the Blackboard web site.
- Questions and problems in the textbook are another source of practice items. If an entire chapter is assigned as required reading, then all questions and problems at the end of this chapter are relevant. If only a part of a chapter is assigned as required reading, then the course outline indicates the relevant questions and problems.

One way to get active with this material is to work with a few other people in the class (as a study group) to discuss the problem sets, the sample exam questions, and/or the text questions.

Hard copies of the slides used in the class sessions will be distributed at the beginning of the discussion of each topic.
Course Requirements and Evaluation

Evaluation is based on the following items, with weights noted.

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-term exam, session 6</td>
<td>32%</td>
</tr>
<tr>
<td>Final examination, session 12</td>
<td>39%</td>
</tr>
<tr>
<td>In-class group presentation</td>
<td>19%</td>
</tr>
<tr>
<td>Contributions to class discussion</td>
<td>10%</td>
</tr>
</tbody>
</table>

Final grades will follow the School’s guidelines for core courses: no more than 35% of the class will receive an A or A-. These guidelines were instituted to address student concerns that different sections of a course might be graded by different standards.

Exams

The midterm exam covers material listed in Sessions 1, 2, 3, and 4 of this syllabus. The final exam covers material in Sessions 5 through 11 (assuming that you have already mastered the material in Sessions 1 through 4).

For the midterm exam, each participant is permitted to bring one sheet of paper (8½ by 11 inches) with notes on both sides, to refer to during the exam. For the final exam, each participant is permitted to bring two sheets of paper (8½ by 11 inches) with notes on both sides, to refer to during the exam.

For each exam, you may also use a calculator. But, you may not use any device that is capable of wireless transmission.

Otherwise, the exams are closed-book.

You may find the exams difficult. My goal in creating an exam is to provide you with a substantial challenge. I want to see how far you can go with the material. The best answers to exam questions often are based on the abilities:

- to apply concepts and tools
- to use judgment
- to develop new insights about problems that you have not seen before the exam
- to make connections to find the most relevant concepts and tools to use in your answers
- to answer the question that is asked, not some other question
In-Class Group Presentation

Students will form into groups of several students each, usually based on existing study groups.

Each group will make a presentation to the class from one of the topics in a list that will be distributed at the first class session. You should view your presentation as an opportunity to hone your research and presentation skills, to apply concepts from this course (and possibly from other courses), to attack a real issue, and to show off your creativity.

Presentations will last no longer than 15 minutes. In addition, after the presentation, there will be about 5 minutes for the group to answer questions from the class. Evaluation of the presentation will be based on three criteria:

- Informativeness
- Analysis and Interpretation
- Style

Class Participation

Class participation will be evaluated on the basis of contributions to class discussions. In the evaluation, quality is more important than quantity. In addition, the evaluation of class participation could be affected adversely by lack of attendance or creating negative classroom externalities.

Responsibilities

As the instructor I have the responsibility to organize and present the material and to facilitate your learning. As a student you have responsibility for your own learning.

You are responsible for complying with Stern’s Honor Code. The Honor Code requires each student to act with integrity in all academic activities and to hold his or her peers to the same standard. No lying, cheating, or plagiarism of published work, work posted on the web, or work done by other students will be tolerated. Any suspected case will be referred to the School’s student judiciary committee.

Actions that have negative effects on others will not be tolerated in the classroom. If you must arrive late or leave early, you must do so as quietly as possible. No cell phones should be audible during class sessions. If you want to use a laptop during class sessions, please take a seat in one of the back two rows.
Blackboard Web Site

I will maintain a web site for the course using Blackboard. The web site will include announcements, downloadable files with nearly all class handouts, and links to videos of the class sessions, as well as sample exam questions and suggested answers.

Contacting Professor Pugel

My office hours for Spring 2011 at Westchester are Wednesdays, 4:00-5:30 PM. I will also usually be available for quick questions in the classroom during the several minutes after a class session ends, as well as during the brief break in the middle of the class session.

My office telephone at Washington Square is 212-998-0918. My fax is 212-995-4212. My e-mail is tpugel@stern.nyu.edu I usually respond quickly to e-mail messages, so this is an excellent way to contact me.
SESSION 1: INTRODUCTION AND DEMAND ANALYSIS
February 9

Topical Outline

Introduction
Market demand
Determinants of quantity demanded by household consumers [or by user firms]
  Product price
  Buyer income [or quantity of user-firm output]
  Substitutes and complements
  Preferences and the role of advertising [or technologies available to user firms]
Responsiveness: elasticities
Consumer surplus

Required Preparation

Baye, chapter 1.

Baye, pp. 36-46. [Relevant Problems on pp. 66-72 are 1, 4, and 5.]

Baye, pp. 74-95. [Relevant Problems on pp. 110-116 are 1, 2, 3, 4, 5, 6, 11, 13, 14, 15, 16, and 21.]

SESSION 2: COST ANALYSIS; PROCURING INPUTS; PRINCIPAL-AGENT ISSUES
February 16

Topical Outline

Opportunity cost: explicit and implicit
Generic cost analysis: short-run
  Total, fixed, and variable costs
  Average and marginal costs
Generic cost analysis: long run
  Economies of scale
  Economies of scope
  Learning economies
The firm: acquiring and using resource inputs
  Transaction costs
  Specialized investments and asset specificity
  Opportunism
  Spot exchange, long-term contract, vertical integration
Principal-agent problems
   Ideal resolution and why it is unlikely
   Partial resolution

Required Preparation

Baye, pp. 156-157 and 175-190 (through the top two lines of p. 190; also, omit the box “Fringe Benefits and Input Substitution” at the top of p. 176). [Relevant Problems on pp. 191-198 are 4, 6, 7, 8, 16, 17, 18, and 22.]

Baye, chapter 6 (excluding Appendix).

SESSION 3: MONOPOLY: USING SELLER’S MARKET POWER
February 23

Topical Outline

Industry analysis
Monopoly: structural conditions
Pricing for profit maximization
   Uniform price to all buyers
   Perfect (or first-degree) price discrimination
   Group or segment (or third-degree) discrimination
   Indirect segment discrimination
   Two-part pricing
   Block pricing
Advertising for profit maximization

Required Preparation

Baye, chapter 7.

Baye, pp. 277-291 and 300-302. [Relevant Problems on pp. 303-310 are 4, 8, 14, 15, 18, 19, 21, and 23.]

Baye, pp. 395-400, 402-417 (stop at the sub-section on “Transfer Pricing”), and 423-424 (Answering the Headline). [Relevant Problems on pp. 425-431 are 2, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 18, and 20.]
SESSION 4: COMPETITIVE INDUSTRY: NO MARKET POWER
March 2

Topical Outline

Perfect competition: structural conditions
Firm profit maximization
Individual firm supply curve
Short run market supply curve
Responsiveness: price elasticity of supply
Producer surplus
Demand and supply
   Competitive market equilibrium: short run
   Long-run competitive market equilibrium
   Dynamics: supply shift, demand shift; short run and long run
Product differentiation and monopolistic competition

Required Preparation

Baye, pp. 265-277. [Relevant Problems on pp. 303-310 are 1, 2, 11, 12, and 20.]

Baye, pp. 35 (Headline), 46-54, and 60-65. [Relevant Problems on pp. 66-72 are 3, 9, 11, 12, 13, 14, 15, 17, 19, and 20.]

Baye, pp. 264 (Headline), 293-300 (omit the paragraph on p. 298 that begins “As in the case of monopoly…” and ends “…concern with profits.”), and 302 (Answering the Headline). [Relevant Problems on pp. 303-310 are 3, 5, 7, 13, and 16.]

SESSION 5: OLIGOPOLY AND STRATEGY: COMPETITION AMONG A SMALL NUMBER OF FIRMS
March 9

Topical Outline

Firm decision-making: strategy
Game theory
Defending sellers’ market power: barriers to entry
   Scale economies
   Absolute cost advantages
   Aspects of product differentiation
Required Preparation


Baye, pp. 314-316.

Baye, chapter 10.

SESSION 6: EXAM; OLIGOPOLY (continued)
March 23

First 100 minutes: Midterm exam (covers material shown in Sessions 1, 2, 3, and 4)

Topical Outline

Oligopoly pricing
   Rivalry: prisoners’ dilemma
   Coordination and repetition
   Limit-pricing, predatory pricing, penetration pricing
Oligopoly: non-price decisions
   Rivalry: first-mover advantage

Required Preparation

Baye, pp. 419-423.


SESSION 7: ECONOMIC EFFICIENCY; MARKETS MAY FAIL: MONOPOLY
March 30

Topical Outline

Economic efficiency
Monopoly, competition laws, and regulation
SESSION 8: MARKETS MAY FAIL: EXTERNALITIES, PUBLIC GOODS, AND ASYMMETRIC INFORMATION
April 6

Topical Outline

Externalities
Resolving externalities
  Internalize by expansion, acquisition, or merger
  Joint private action
  Government policies
Public goods
Asymmetric information, adverse selection, and moral hazard
Signaling, screening, and regulation

Required Preparation


Baye, pp. 448-454. [Relevant Problems on pp. 466-472 are 5, 8, 10, 13, 15, 17, 18, 22, and 23.]

Baye, pp. 522-532. [Relevant Problems on pp. 538-544 are 4, 5, 9, 10, 14, 16, 17, and 21.]
SESSION 9: GOVERNMENT POLICIES CAN DESTROY EFFICIENCY
April 13

Topical Outline

Government policies when there are no market failures
The effects of taxation: excise tax
Price floor
Price support with government purchase
Price ceiling

Required Preparation

Baye, pp. 48-49 (sub-section on taxes) and 54-60. [Relevant Problems on pp. 66-72 are 2, 6, 7, 8, 10, 16, 18, 22, and 23.]

SESSION 10: INTERNATIONAL TRADE
April 20

Topical Outline

International trade: gains from trade, winners and losers
Government policies that limit imports: effects of a tariff
Nontariff barriers to imports (NTBs)
Government policies that limit imports: effects of a quota
World Trade Organization

The latter part of this session may be devoted to in-class group presentations.

Required Preparation

SESSION 11: GROUP PRESENTATIONS
April 27

Most of this session will be devoted to in-class group presentations.

SESSION 12: FINAL EXAM
May 4

First 35 minutes: Optional review session. (The only thing that I will do is answer questions that you raise about material from the course.)

Beginning at 6:40 PM: Final exam (focuses on material in Sessions 5 through 11; assuming that you know and can use all material from the first part of the course).
SESSION 1:  INTRODUCTION AND DEMAND ANALYSIS

Baye, chapter 1.

Baye, pp. 36-46.  [Relevant Problems on pp. 67-72 are 1, 4, and 5.]

Baye, pp. 74-95.  [Relevant Problems on pp. 110-116 are 1, 2, 3, 4, 5, 6, 9, 11, 12, 13, 14, and 19.]

SESSION 2:  COST ANALYSIS; PROCURING INPUTS; PRINCIPAL-AGENT ISSUES

Baye, pp. 157-158 and 177-191 (omit the box “Fringe Benefits and Input Substitution” at the top of p. 178).  [Relevant Problems on pp. 192-199 are 4, 6, 7, 8, 14, 15, 16, and 20.]

Baye, chapter 6 (excluding Appendix).

SESSION 3:  MONOPOLY:  USING SELLER’S MARKET POWER

Baye, chapter 7.

Baye, pp. 278-292 and 301-303.  [Relevant Problems on pp. 304-311 are 4, 8, 12, 13, 16, 17, 19, and 21.]

Baye, pp. 397-401, 404-419 (stop at the sub-section on “Transfer Pricing”), and 426 (Answering the Headline).  [Relevant Problems on pp. 427-433 are 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 16, and 18.]

SESSION 4:  COMPETITIVE INDUSTRY:  NO MARKET POWER

Baye, pp. 266-278.  [Relevant Problems on pp. 304-311 are 1, 2, 9, 10, and 18.]

Baye, pp. 35 (Headline), 46-54, and 60-65.  [Relevant Problems on pp. 67-72 are 3, 9, 10, 11, 12, 13, 15, 17, and 18.]

Baye, pp. 265 (Headline), 294-301 (omit the paragraph on p. 299 that begins “As in the case of monopoly…” and ends “…concern with profits.”), and 303 (Answering the Headline).  [Relevant Problems on pp. 304-311 are 3, 5, 7, 11, and 14.]
SESSION 5: OLIGOPOLY AND STRATEGY

Baye, pp. 316-318.

Baye, chapter 10.

SESSION 6: OLIGOPOLY (continued)

Baye, pp. 422-426.


SESSION 7: EXAM; ECONOMIC EFFICIENCY; MARKETS MAY FAIL

Baye, pp. 292-294. [Relevant Problem on pp. 304-311 is 6.]

Baye, pp. 509-520, and 539 (Answering Headline). [Relevant Problems on pp. 540-545 are 1, 2, 5, 8, 9, 10, 11, and 21.]

SESSION 8: MARKETS MAY FAIL

Baye, pp. 450-456. [Relevant Problems on pp. 468-473 are 5, 8, 11, 13, 15, 16, 20, and 21.]

Baye, pp. 524-534. [Relevant Problems on pp. 540-545 are 4, 5, 12, 14, 15, and 19.]

SESSION 9: GOVERNMENT POLICIES CAN DESTROY EFFICIENCY

Baye, pp. 48-49 (sub-section on taxes) and 54-60. [Relevant Problems on pp. 67-72 are 2, 6, 7, 8, 14, 16, 20, and 21.]