

**ECP 3703**  
**Managerial Economics**  
SUMMER A 2010  
MWF 9:30-10:45, RT 9:30-12:15  
Gerson Hall 0122 (GER 0122)

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### Course Description

Businesses face crucial decisions that affect daily operation. These decisions affect the profitability and ability of these businesses to grow and survive. Managerial Economics offers a collection of fundamental microeconomics principles and methods that aid managers in making sound decisions. Although these principles and methods are not fool proof, thinking like an Economist will help managers to take full advantage of good opportunities and minimize the impact of unfavorable events.

In this course, we study microeconomic tools most relevant to managers. Topics include demand and supply analysis, market equilibrium, production and costs, market structure, strategic interaction, pricing, and uncertainty. This course should develop your knowledge of how markets operate and should build your capability of making sound economic decisions. By the end of this course you should be familiar with the principles and methods of Managerial Economics and their applications.

### Textbook

Baye, Michael R., *Managerial Economics and Business Strategy*, 7<sup>th</sup> edition, McGraw-Hill Irwin, 2010

### Reading Materials and Course Information

Relevant chapters in the textbook are shown in the course outline below. Classes will be a combination of lectures and discussions. With that, you are recommended to read the assigned book chapters before coming to class. In some topics, I will use some course notes outside the prescribed textbook. Please come to class prepared. If you are having problems understanding some of the concepts, I encourage you to make use of my office hours. You have to make an appointment at least a day before of your planned visit (I prefer that you use e-mail).

### Exams

There will be 2 midterm exams (**Tuesday May 25** and **Tuesday June 8**) and a final exam (**Thursday June 17**). Each exam, including the final, will allow 2 hours to answer a combination of multiple choice and problem solving questions. All exams are closed book. You are allowed to use non-programmable calculator. The use of programmable calculator, PDA, cellular phone etc. will result to a 15 point penalty. The same penalty applies if a cell phone or text messenger rings. The coverage of each exam is given below. Note that some topics will make use of additional notes which may also be included in the exams.

Exam	Date	Coverage
Midterm 1	Tuesday May 25	Chapters 2, 3, and 5
Midterm 2	Tuesday June 8	Chapters 8 and 9
Final Exam	Thursday June 17	Chapters 10, 11, and 12

### Problem Sets

I believe that understanding the problems and concepts is crucial to success in this course. To maximize learning potential and success in this course, there will be 3 problem sets assigned to you for work and practice. These problem sets will be given at least a week before the due date. For greater learning

opportunities, you can work in groups although you have to write and turn in the final answers individually. The 3 problem sets are due on **Friday May 21**, **Friday June 4**, and **Tuesday June 15**. You are required to turn in each of the assigned problem sets at the beginning of the class on each due date. There will be a 15 point penalty for late submissions.

### Grading

The 3 problem sets, 2 midterm exams, and the final exam count toward your grade as follows:

Problem Set	25%
Midterm	50% (25% each)
Final	25%

### Grading Scale

The grading scale is given below.

Letter Grade	Grade
A	86 and above
A <sup>-</sup>	83 - 85.99
B <sup>+</sup>	80 - 82.99
B	76 - 79.99
B <sup>-</sup>	73 - 75.99
C <sup>+</sup>	70 - 72.99
C	66 - 69.99
C <sup>-</sup>	63 - 65.99
D <sup>+</sup>	60 - 62.99
D	56 - 59.99
D <sup>-</sup>	53 - 55.99
E	below 53

There are no exceptions to this scale. For instance, if you finish this course with a grade of 79.99, you will receive a B. The grade you receive is a product of many factors: learning, skills, and some random element. Sure you have the skills and learned the material in class. But there are also some random element that cannot be avoided. You guessed answers in some questions. You are sick the day before the test which diminished your capacity to review the material for the test. The topics you studied most did not appear on the test material. You are great at problem solving type of questions but not on multiple choice.

I cannot eliminate the random element but I have devised ways to mitigate its effect:

1. I give 3 tests, 2 midterms and a final which are non-cumulative.
2. I give problem sets which may be worked out in groups that count heavily in grade computation.
3. I will write tests which are combination of multiple choice and problem solving questions.
4. I will write the tests such that they cover the course material closely evenly.

### Make-up Exam Policy

If you miss an exam due to health or some other reason, I allow you to take special make-up exam which we have to arrange. The make-up test may be a different format or be more comprehensive. To be fair with students who took the test on time, there is a 5 point penalty on make-up exams, regardless of the reason.

### Prerequisite

The course catalog stated prerequisite for this course are Principles of Microeconomics ( ECO 2023) and Calculus (MAC 2233 or MAC 2311). I will assume you know the materials from principles of economics. You are advised to review the principles materials if you feel rusty. I also assume that you possess good basic Algebra skills.

## Methodology in Managerial Economics

Managerial Economics involves a lot of analytical thinking. Measuring and solving problems using mathematics improve decision-making (and also elegant). Learning managerial economics with mathematics is the price we have to pay to solve business and economics problems systematically and logically. We cannot manage what we cannot measure. I have to emphasize that this is not a math course.

A cornerstone of Managerial Economics is the marginal analysis. We use marginal analysis to analyze optimization problems such as profit maximization. The mathematical counterpart of marginal analysis is Differential Calculus. In this course, you will have the opportunity to apply the basic Algebra and Differential Calculus you learned before with emphasis on interpretation rather than the technique. You will need to be able to work with such tools in order to be successful in this course. I will review and develop with you the Calculus used in this course. See me early if you have difficulty working with Calculus.

## Course Outline and Reading

1. Math Review	My Notes
2. Introduction to Managerial Economics	Chapter 1
3. Demand and Supply	Chapter 2
4. Quantitative Demand Analysis	Chapter 3
5. Production and Costs	Chapter 5
6. Competitive, Monopolistic, and Monopolistically Competitive Markets	Chapter 8
7. Oligopoly	Chapter 9
8. Game Theory and Oligopoly	Chapter 10
9. Pricing Strategies with Market Power	Chapter 11
10. The Economics of Information	Chapter 12

A detailed course outline with book chapters, pages, topics, and dates is attached below. I emphasize that the calendar of topics below is tentative (I might get behind but will surely catchup). **Exam dates, however, are not tentative.**

## The Contract

We each have responsibilities in this course. I am responsible to deliver my best in teaching this course and for assessing your performance appropriately, consistently, and objectively. We are all responsible for maintaining proper classroom behavior. You are responsible for keeping up with the material. You are also responsible for seeking help if needed. **Class attendance is required and you may not come to class late.** You are responsible for any act of cheating. If such cheating occurs I am responsible to take appropriate actions prescribed by the Dean of Student Office. You are responsible for knowing and understanding all the rules of this course. I promise to keep my end of this agreement. I expect you to do the same.

## Students with Disabilities

The University of Florida strives to provide reasonable accommodations for students with disabilities. Students with disabilities must provide me with documentations through the Dean of Student Office at the beginning of the semester.

**ECP 3703 Managerial Economics Topic Outline, Chapter Readings, and Schedule (Summer A 2010)**

Week	Date	Day	Period	Chapter/Pages	Topic
Week 1	10-May	M	9:30-10:45	Syllabus	Syllabus
	11-May	T	9:30-10:45	Notes	Math Review
			11:00-12:15	Ch 1, pp. 1-14, 19-25	Introduction to Managerial Economics
	12-May	W	9:30-10:45	Ch 2, pp. 36-46	Demand
	13-May	R	9:30-10:45	Ch 2, pp. 46-54	Supply, Market Equilibrium
			11:00-12:15	Ch 2, pp. 54-66	Price Restrictions, Comparative Statics
	14-May	F	9:30-10:45	Ch 3, pp. 73-79	Elasticity, Elasticity and Total Revenue

Week 2	17-May	M	9:30-10:45	Ch 3, pp. 79-85	Factors Affecting Own-Price Elasticity, Elasticity and Marginal Revenue
	18-May	T	9:30-10:45	Ch 3, pp. 85-95	Cross-Price and Income Elasticity, Obtaining Elasticities from Demand Functions
			11:00-12:15		Uses of Elasticity
	19-May	W	9:30-10:45	Ch 5, pp. 155-167	Production Function, Measures of Productivity, Algebraic Forms
	20-May	R	9:30-10:45	Ch 5, pp. 167-171	Isoquants, Marginal Rate of Technical Substitution, Isocosts
			11:00-12:15	Ch 5, pp. 171-175	Cost Minimization, Optimal Input Substitution
	21-May	F	9:30-10:45	Ch 5, pp. 175-181	Cost Function, AC and MC, Relationship among Costs

Week 3	24-May	M	9:30-10:45	Ch 5, pp. 181-189	Fixed and Sunk Costs, Economies of Scale, Multiple-Output Cost Functions
	25-May	T	9:30-10:45	<b>Midterm 1</b>	<b>Midterm Exam 1 (Chapters 2,3, and 5)</b>
			11:00-12:15		
	26-May	W	9:30-10:45	Ch 8, pp. 264-272	Perfect Competition, Firm Demand, Profit Maximization
	27-May	R	9:30-10:45	Ch 8, pp. 272-277	Shut Down Condition, Long Run Decisions
			11:00-12:15	Ch 8, pp. 277-291	Monopoly, Sources of Monopoly Power, Monopoly Profit Maximization
	28-May	F	9:30-10:45	Ch 8, 282-293	Monopoly Profit Maximization (continued), Welfare Implications

Week 4	31-May	M		<b>No Classes</b>	<b>No Classes</b>
	1-Jun	T	9:30-10:45	Ch 8, 293-302	Monopolistic Competition, Profit Maximization, Optimal Advertising
		T	11:00-12:15	Ch 9, pp. 313-323	Oligopoly, Cournot Oligopoly
	2-Jun	W	9:30-10:45	Ch 9, pp.330-334	Stackelberg Oligopoly
	3-Jun	R	9:30-10:45	Ch 9, 334-339	Bertrand Oligopoly, Comparing Oligopoly Models
			11:00-12:15	Notes	Introduction to Game Theory
	4-Jun	F	9:30-10:45	Ch 10,pp.352-363	Simultaneous Move One-Shot Games

Week	Date	Day	Period	Chapter/Pages	Topic
Week 5	7-Jun	M	9:30-10:45	Ch 10, pp. 363-376	Repeated Games
	8-Jun	T	9:30-10:45	Midterm 2	Midterm Exam 2 (Chapters 8 and 9)
			11:00-12:15		
	9-Jun	W	9:30-10:45	Ch 10, pp. 376-384	Multistage Games
	10-Jun	R	9:30-10:45	Ch 11, pp.395-404	Some Pricing Rules, Price Discrimination (1st and 2nd degree)
			11:00-12:15	Ch 11, pp. 404-410	3rd Degree Price Discrimination and Two Part Pricing
	11-Jun	F	9:30-10:45	Ch 11, pp. 410-415	Block Pricing, Bundling

Week 6	14-Jun	M	9:30-10:45	Ch 11, pp. 415-419	Peak-Load Pricing, Cross Subsidies, Transfer Pricing
	15-Jun	T	9:30-10:45	Ch 12, pp. 433-442	Mean and Variance, Uncertainty and Consumer Behavior, Consumer Search
			11:00-12:15	Ch 12, pp. 442-447	Uncertainty and the Firm, Producer Search, Profit Maximization
	16-Jun	W	9:30-10:45	Review	Optional
	17-Jun	R	9:30-10:45	Final Exam	Final Exam (Chapters 10, 11, and 12)
			11:00-12:15		
	18-Jun	F		Class Ends	No Classes