

# ECONOMICS OF STRATEGIC BEHAVIOR

**B8216 --- FALL 2016**

PROFESSOR CHARLES ANGELUCCI

*SUBJECT TO CHANGE*

## A. ADMINISTRATIVE INFORMATION

### Contact Information

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### Required Materials

- Course Pack (cases and additional readings), Hand-outs on CANVAS.
- Bruce Greenwald and Judd Kahn (2005): Competition Demystified (CD).

## B. COURSE DESCRIPTION

This course examines the underlying economics of successful business strategy, including

- (i) The sources of long-run competitive advantage.
- (ii) The dynamics of competition and competitive advantage.
- (iii) Strategic interactions (competitive and/or cooperative) between pairs of firms.

Three characteristics distinguish our approach. First, we focus on the large strategic decisions which firms face rather than more detailed, operation/managerial issues. Second, we seek broad principles that can be applied across many firms and markets, rather than anecdotal success stories or institutional details that apply only in limited cases or as a result of quite idiosyncratic factors. Finally, we develop these broad principles from the framework of microeconomic theory. As such, potential answers will be subjected to the rigor of economic analysis to test their validity and applicability.

The approach toward teaching and learning is primarily inductive. That is, you will learn the concepts and principles outlined above largely through examples – this is the essence of the case study method. The goal is to carefully study specific business situations and decisions with the goal of extracting broader principles about business strategy, which will then be available to you in a wide variety of managerial contexts. Course time will be split roughly 65/35 between case discussions and lectures.

Good cases are necessarily complex and ambiguous. In preparing for case discussions, you may find sorting through this complexity and ambiguity to be frustrating. The problems presented in the case discussion may not have one correct answer. However, there will generally be a set of insights and solutions that are better than others. And it is in working through the messy details to find these insights and solutions – both in your own preparation and in class discussion – that the concepts and principles introduced in the readings and lectures will come alive and be enriched for you.

**C. REQUIRED PREREQUISITES AND CONNECTION TO THE CORE**

The learning in this course will utilize, build on and extend concepts covered in the following core courses:

<b>Core Course</b>	<b>Connection with Core</b>
Managerial Economics	<ol style="list-style-type: none"> <li>1. Understanding market competition and equilibrium thinking (in the short-run).</li> <li>2. Market equilibrium thinking (in the long-run) and barriers to entry.</li> <li>3. Strategic Interaction among firms and Nash Equilibrium.</li> <li>4. Pricing with market power.</li> </ol>
Strategy Formulation	<ol style="list-style-type: none"> <li>1. Creation of value vs. value capture.</li> <li>2. Competing firms.</li> </ol>

Students will be expected to have mastered these concepts and be able to apply them in the course.

## D. CLASS SCHEDULE

### I. Sources and Dynamics of Competitive Advantage.

The first part of the course is focused on understanding the sources and dynamics of competitive advantages. It presents a simplified approach to business strategy, based on the notion that any long-run competitive advantage must rely on “barriers to entry”. Firms without competitive advantages should concentrate all their efforts on being efficient. Firms that do have competitive advantages need to design strategy with their competitors in mind.

<b>Session</b>	<b>Topic</b>	<b>Cases</b> <i>Other Reading Assignments</i>
Session 1 Wed Sep 07	Intro to Competitive Strategy. Industry Economics & Competitive Advantage	<b>Enterprise Rent-A-Car</b>
Session 2 Mon Sep 12	Intro to Competitive Strategy.	Competition Demystified (CD) Chapters 1-3
Session 3 Wed Sep 14	Sources of Competitive Advantage.	<b>Airborne Express*</b> “Chapter 3: Two main routes to Competitive Advantage” (Course Pack)
Session 4 Mon Sep 19	Sources of Competitive Advantage.	<b>Capital One*</b>
Session 5 Wed Sep 21	Dynamics of Competitive Advantage & Two-sided markets.	<b>The Economist*</b> CD Chapters 5-6
Session 6 Mon Sep 26	Dynamics of Competitive Advantage & Two-sided markets.	<b>E-harmony*</b>
Session 7 Wed Sep 28	Firm Scope & Competitive Advantage.	<b>Disney and Pixar</b>
Session 8 Mon Oct 03	Theory of the firm; Make or buy; Resource-based Competitive Advantage.	
Session 9 Wed Oct 05	Entry & Competitive Advantage	<b>Bombardier*</b> CD Chapter 7
Session 10 Mon Oct 10	Entry & Competitive Advantage.	<b>Tesla Motors*</b>

\* Cases are eligible for case write-ups – see preparation questions at end of syllabus.

## II. Shared Competitive Advantages: Managing Strategic Interactions.

After having developed the basic tools for the analysis of competitive advantage, we will use game theory as a framework for analyzing “shared competitive advantages”. The basic issue is simply this – when competitive advantage is shared with other firms, any action I take will elicit a reaction by my competitors. How can I incorporate those reactions in forming strategies so that I am not blindsided, and if possible, can even use them to my advantage? Can I find a way to move away from mutually destructive price competition, toward win-win games? How do I enter an industry, or avoid entry by new competitors? How do I structure and manage my relationship with suppliers and competitors?

<b>Session</b>	<b>Topic</b>	<b>Cases</b> <i>Other Reading Assignments</i>
Session 11 Wed Oct 12	Intro to Strategic Interactions	“Game Theory: How to make it Pay” (Course Pack)
Session 12 Mon Oct 17	Intro to Strategic Interactions	Shrimp Game;
Session 13 Wed Oct 26	Price Wars & Dynamics of Competition	<b>Philip Morris: Marlboro Friday;</b> “The Dynamics of Price Competition” (Course Pack)
Session 14 Mon Oct 31	Price Wars & Dynamics of Competition	<b>Albert Heijn: Price Wars Among Retailers*;</b>
Session 15 Wed Nov 02	Entry Strategies & Dynamics of Competition;	<b>Ready-to-Eat Breakfast Cereal*;</b> CD Chapters 11-15
Session 16 Wed Nov 09	Entry Strategies & Dynamics of Competition;	<b>Dogfight over Europe: Ryanair*;</b>
Session 17 Mon Nov 14	Entry Strategies & Dynamics of Competition;	<b>Microsoft in Search* ;</b>
Session 18 Wed Nov 16	Entry Strategies & Dynamics of Competition;	<b>Airbus vs. Boeing (A, B);</b>
Session 19 Mon Nov 21	Entry Strategies & Dynamics of Competition; Distributors, Suppliers and Complementors: Friends or Foes?	<b>2010 Potash Wars: BHP Billeton’s bid for Potash Corporation of Saskatchewan.</b>
Session 20 Mon Nov 28	Entry Strategies & Dynamics of Competition; Distributors, Suppliers and Complementors: Friends or Foes?	<b>Power Play (A): Nintendo;</b>
Session 21 Wed Nov 30	Complementors: Friends or Foes?	Simulation game; (Instructions distributed in class)

Session 22 Mon Dec 05	Basics of Antitrust Laws	
Session 23 Wed Dec 07	Basics of Antitrust Laws & Wrap-Up	
Session 24 Mon Dec 12	In-class open book case-based final.	

\* Cases are eligible for case write-ups – see preparation questions at end of syllabus.

## E. COURSE REQUIREMENTS AND GRADING

Grading will be based on class participation and on-line case quizzes (30%), 5 case write-ups (35%), and a take-home (but distributed in class) case-based exam (35%).

### 1) Class Participation and On-line Quizzes (30% - Individual/Type B)

For each case, there will be an online quiz, to be taken by 9am the day of class. Questions are multiple choice and/or require you to write a paragraph justifying your answer. Grading is based on the thoughtful completion of each of the quizzes. Be also prepared to discuss your answers in class.

Class participation is essential in order for you to get the maximum benefit from the course. Your grade will be based on attendance, effort and the content of your contributions to the class discussions. The evaluation of content will be based on the following:

- Relevance: Are your comments clearly related to the case and to the comments of others? Do they move the discussion forward?
- Fact-Based: Have you used specific data from the case, from readings, or from personal experience to support the assertions that you are making?

Case discussion constitutes more than half the class time, so there will be ample opportunity for each of you to participate. If you feel that you are preparing well but that I am not calling on you enough, please let me know so that I can address the problem. In addition to voluntary participation, *I often randomly select a few students to open and/or lead the case discussion.*

Importantly, I ask that you deal with the cases as you find them; **do not seek outside or post- case data on the firm or industry.** Of course, if you already know things about the case, from previous experience, this can be very useful in case discussions. Please let me know about it in advance, and I will make a point to call on you at the appropriate time.

## **2) Case Write-ups (35% - Group/Type A)**

Submit 5 case write-ups, chosen from the starred (\*) cases. Your case write-up should focus on the study question(s) in bold face. *Write-ups can be submitted individually, or in groups of up to four.*

**Due date.** Day before the case is discussed in class, submitted online on CANVAS (Drop Box).

**Format.** The write-up should be no longer than 2 pages and consist of 3 parts: Your write-up has to start with a one paragraph summary that states your basic position. The paragraph should be as concise as possible. Shorter is better. This is an exercise in synthesis. The rest of the write up essentially argues why that position is correct. At the end, you should list concisely 2 or 3 issues or potential problems with your position.

**Use.** I may occasionally call upon someone or a group to discuss his or her ideas. I will not write comments on the case write-ups, but will grade them as either “check-minus”, “check”, or “check-plus”.

## **3) In-class open book case-based exam (35% - Individual/Type B)**

In-class open book case-based exam during last class session. Case will be distributed one week in advance. Students will be able to take the exam home.

*Preparation Questions (be prepared to discuss these questions in class)*

**Case write-ups (\* cases) should focus on the questions in bold.**

### **Enterprise Rent-a-Car (Case posted on CANVAS)**

1. How attractive is the car rental industry in terms of long-term profitability?
2. Analyze Enterprise's strategy and competitive position. Why has Enterprise been so successful?
3. Should Hertz or Avis launch a frontal assault on Enterprise?

### **Airborne Express\***

1. Why has the express mail industry been so difficult for smaller players?
2. This is an industry with two major players. Why is competition between FedEx and UPS so fierce?
- 3. How has Airborne managed to survive, and even thrive in this tough environment?**
- 4. Does Airborne have cost advantages? Quantify if possible.**
5. What must Airborne do to continue to survive and thrive?

### **Capital One\***

- 1. What, if any, competitive advantages does Capital One have?**
- 2. Are these advantages sustainable into the future?**
3. As head of Capital One, what would be your strategic priorities?

### **The Economist\***

- 1. What explains the success of The Economist thus far? Why has it managed to succeed while so many other magazines are struggling?**
2. What should Andrew Rashbass' major priorities be going forward? What opportunities can the Economist take advantage of, and what threats should they be sensitive to?
- 3. Is Mass Intelligence a real business opportunity?**

### **E-Harmony\***

1. Why do people want to meet others on-line instead of finding them in the real world?
2. What are the barriers-to-entry in the online-personals market?
- 3. Does eHarmony have competitive advantages in this market? What are they? Do they result in higher profit-margins per subscriber than Match.com and Yahoo!?**
- 4. How serious is the competitive threat from Chemistry? How should eHarmony respond?**

### **Disney and Pixar**

1. Are Disney and Pixar better together?
2. What are the alternatives to acquire Pixar. Is ownership really necessary? Or could another long-term contract do the trick?
3. If you decide to acquire Pixar, how would you integrate the two companies? Where are the opportunities and the headaches, how would you handle them?"

### **Bombardier\***

- 1. What are Bombardier's and Morrison Knudsen's (MK) strategic advantages and disadvantages in the U.S. railcar market?**
2. Evaluate Morrison Knudsen's strategy.
- 3. How should Bombardier respond to the challenge posed by MK?**

**Tesla Motors.\*** Tesla Motors attempts to become the first US firm since WWII to successfully enter the car industry with a mass-produced car.

- 1. Should BMW expect Tesla to grow into a strong direct competitor like Audi (versus Tesla being either limited to a niche or a flash in the pan)? Is Tesla at a competitive advantage or disadvantage? How will that evolve?**
- 2. What do you think of Tesla's entry strategy? What barriers did it have to overcome? How did it manage to do so? Will other firms follow in Tesla's footsteps?**
3. How do you expect the industry to evolve?

### **Philip Morris: Marlboro Friday**

1. How would you describe Marlboro's competitive position in early 1993?
2. What is Marlboro's marketing strategy at that time?
3. How does this compare to RJ Reynolds'?
4. What accounts for Philip Morris' dramatic shift in strategy in April 1993? What are its goals?
5. How should RJ Reynolds respond?
6. What kind of industry future does Philip Morris anticipate?

### **Albert Heijn: Price Wars Among Retailers\***

1. How would you describe Albert Heijn's competitive position in 2003? 2
- 2. What are the goals of Albert Heijn's dramatic shift in strategy in October 2003?**
- 3. Will Albert Heijn be successful in achieving its goals? Is the new price strategy a smart move?**

### **Ready-to-Eat Breakfast Cereal Industry\***

- 1. Why has RTE cereal been such a profitable business?**
2. How have the incumbent brands managed rivalry?
- 3. And how has entry been avoided for such a long time?**
4. How should RTE cereal producers react to non-branded entry?

### **Dogfight over Europe: Ryanair (A)\***

1. Describe Ryan Air's entry strategy.
- 2. Evaluate Ryan Air's entry strategy. Will it succeed?**
3. Place yourself in the shoes of the CEO of BA or AL. How would you respond to Ryan Air's entry?

### **Microsoft's Search\***

1. What, if any, competitive advantages does Google enjoy in search. Are these competitive advantages sustainable?
- 2. Does Microsoft have a competitive advantage in search? What market share do they need to be profitable? Do you think they will be successful?**
3. How should Google respond to Microsoft?

### **Airbus vs. Boeing**

1. What competitive advantages, if any, does Boeing enjoy in the aircraft industry? What offsetting advantages does Airbus enjoy?
2. What is Airbus' entry strategy? How has Boeing responded? Are there alternative strategies you would recommend?
3. How is the current competitive process likely to evolve?
4. Is there an alternative evolution that you would like to see? As Boeing? As Airbus? As the US and European governments? As the airlines?

### **2010 Potash Wars**

1. Why has the price of Potash been so volatile?
2. Describe how a take-over of PCS allows BHP to improve or exploit its pre-takeover strategic position. What would be other alternatives? In what ways is a takeover better or worse than these alternatives from BHP's perspective?\*
3. Describe whether and how BHP's strategy will increase value creation in the potash industry. Describe whether and how it allows BHP to capture value in this industry.

### **Nintendo**

1. Nintendo successfully recreated the home video game business following the Atari-era boom and bust. How did it do so?
2. How did Nintendo capture value from the home video game business? How did it avoid that "content" developers (such as Electronic Arts), or distribution channels (such as Wal-Mart, ToysRUs) captured all the rents?