This class is designed to be an upper-level course in strategy. It provides concepts and ideas for the tool-kit of the manager involved in the strategy process. We start out with the question of how value can be created and, more importantly, appropriated. This leads to the general issue of how a competitive advantage can be built. We will focus in our discussion on new concepts that have been developed around the notions of complementarities and fit. In the next section of the course, we look at the question of what decisions managers can make to sustain a competitive advantage. In the last section of the course, we will be dealing with strategy making in the face of environmental changes.

Early in the course we will form student groups who will work during the semester on the final project. More information will be provided on the first day of class. At the end of the semester, each group will present their work.

Your grade will be composed of an individual midterm paper (17%), the final paper draft (7%), final paper presentation (7%), feedback for the other group (7%), final paper (32%), three short individual class submissions (2% each) and class participation (24%). The discount rate for late papers is severe. In order to pass this class, you have to make a good-faith effort with respect to class attendance, participation and the paper.

Please note that this syllabus is subject to change with prior announcements. All slides will be posted after each class on Canvas.

Required reading for the class is Connected Strategy (2019, HBR Press).

The TAs for this class are Samantha Darnell (sdarnell@wharton.upenn.edu) and Michael Pergler (mpergler@wharton.upenn.edu). The TAs will be mainly responsible for your paper projects.
A short note on proper citations

To most of you this will be probably self-evident, but I want to make sure that we all understand: Copying paragraphs from sources (magazine, newspaper articles, analyst reports etc.) without properly citing them is a SERIOUS offense! Properly citing means: if you copy word-by-word, you have to mark this by enclosing the copied text with quotation marks “ “ and citing the source. Even if you don’t copy word-by-word, but you take someone else’s idea, you have to indicate in a citation the source of that idea. This citation has to follow directly the idea (attach a footnote or an endnote). At the end of the paper, you should then list all sources that you have cited in the text.

Let me re-iterate: Non-proper citing is a very serious academic offense that in other courses has led professors to fail students and bring these students to the attention of the academic review board of the University. I think all of us want to avoid any such incident – and it is really easy to avoid such problems. Simply be careful in your papers that you attribute ideas/frameworks etc. that you use to their respective sources.

Individual paper (Due 10/21, 9am)

Select a firm that has engaged in a significant strategic initiative (this could be in the realm of “connected strategies” but does not have to). This firm should be different from the firm of your team project and should be in a different industry. The “significant strategic initiative” might be a new product or service offering, or a major modification of an existing product. It could also be a big internal re-organization. The main idea is to analyze this initiative from a strategic perspective. Address the following questions:

1. Briefly describe the strategic initiative.

2. What industry does the firm operate in? Conduct an industry analysis (5 Forces + complementors) from the perspective of an “average” firm and then argue whether your firm is more or less exposed to any of these 6 forces.

3. How does the initiative help (or hinder) the firm to address the structural issues that you highlighted in your industry analysis?

4. What is the effect of the initiative on WTP? (What specific drivers of WTP are involved? For which customer segments would we expect the biggest impact?)

5. What is the effect of the initiative on cost? [For both questions 3 and 4, conceptual arguments are sufficient; if you can quantify, that’s great but not necessary.]

6. Does this initiative help the firm create a competitive advantage? How sustainable is this advantage? Does this initiative involve interdependent choices? If yes, discuss whether these choices are complementarity to each other.

Please keep the maximum of the paper to 10 pages of text (plus 1-2 pages of exhibits if needed). Please use double spacing and 12 point font.
I. PREVIEWS

9/1 Session 1: Course Logistics, What is Strategy? Five-Force Analysis


Study questions:

Please read the Mintzberg and Waters (1985) piece and review your notes on Five-Force Analysis. The Porter (2008) article is a nice recap of industry analysis.

1. How would you define “strategy”?

2. Who makes strategy? Who should make strategy? In your experience, have strategies been deliberate or emergent?

3. What is a Five-Force Analysis? What makes such an analysis difficult?

9/3 Session 2: Preview Case

*Case*: Intel Corporation: 1968-1997, 9-797-137

Study questions:

1. How did Intel create a competitive advantage in DRAMs?

2. Why did Intel get out of DRAMs in 1985?

3. How did Intel build a competitive advantage in microprocessors? How has the company managed to sustain this advantage?

II. VALUE CREATION, APPROPRIATION, AND FIT

9/8 Session 3: Complementors

*Complete Team Sign-Up by 5pm on 9/8 Via Canvas*

Study questions:

1. Nintendo successfully recreated the home video game business following the Atari-era boom and bust. How did it do so?

2. How was Nintendo able to capture value from the home video game business? Use the Value Net as a starting point for your answer.

9/10 Session 4: Value Creation, Value Appropriation


Study questions:

Please review the concepts of value creation, value appropriation, and added value from your notes from MGMT 611/612. If you need, please read Sections 1-6 of the Brandenburger/Stuart paper. To check your understanding of the concepts of value creation and added value answer the following questions:

1. There are three firms, labeled A, B, and C, each able to produce a single unit of a product. There are numerous suppliers, each of which can supply the necessary input to only one firm; each supplier has a supplier cost (or opportunity cost) of $4. There are two buyers, each interested in buying at most one unit. Both buyers have a willingness-to-pay of $9 for each firm’s product.

   a. What is the total value of this game?
   
   b. What is the added value of each player?
   
   c. How much value do you expect each player to capture?
   
   d. Now suppose a slight change to the game. Everything is the same for firms B and C as before. But now, suppliers have a supplier cost of $5 for supplying firm A, and buyers have a willingness-to-pay of $11 for firm A’s product. Recalculate the added values of the players, and find how much value each player will capture, in the second game.

2. There are three firms, labeled A, B, and C, each able to produce a single unit of a product. There are numerous suppliers, each of which can supply at most one firm. Each supplier has a supplier cost of $2 of supplying firm A, a supplier cost of $3 of supplying firm B, and a supplier cost of $5 of supplying firm C. There are two buyers, each interested in buying at most one unit. Each buyer has a willingness-to-pay of $10
for firm A’s product, a willingness-to-pay of $12 for firm B’s product, and a willingness-to-pay of $13 for firm C’s product. Thus, firm A is the cost leader in this market, and firm C is the differentiator or high-quality provider.

a. What is the total value of this game?
b. What is the added value of each player?
c. How much value do you expect each player to capture?
d. How does this example relate to Porter’s claim that firms should avoid becoming “stuck in the middle”?

9/15 Session 5: Positioning and Complementarities

Paper Topic Proposal Due at the Beginning of Class 9/15.

Please submit a copy of Lincoln’s activity system by 8am


1. What, in your view, are the five key points in Porter’s article?

2. What is the definition of complementarity as given by Milgrom and Roberts?

3. Using the information given in Section 5 of the “Complementarities and Fit” paper, draw an activity system of Lincoln Electric. Please submit a copy of your activity system by 8am.
system by 8am. (You can scan your hand-drawn graphic if you like; don’t waste time on fancy graphics.)

The last two readings are optional. The Siggelkow (2002) paper provides a more longitudinal perspective to the topic of activity systems. The Porter & Siggelkow (2008) article goes into more depth into issues involving complementarities and interactions in general and reviews recent academic research that has been done on this topic.

9/17 Session 6: Positioning Applied: Low Cost

*Case:* Airborne Express (A), 9-798-070

*Study questions:*

1. How has the express mail industry structure evolved in recent years? How have the changes affected small competitors?

2. How has Airborne survived and prospered in its industry?

3. Quantify Airborne’s sources of advantage (this means you need to crunch some numbers). Since the case does not allow you to compare willingness to pay across companies more than qualitatively, we will focus on costs. Specifically, compare the costs of an overnight letter shipped by Airborne Express to one shipped by Federal Express.

4. What must Robert Brazier, Airborne’s President and COO do in order to strengthen the company’s position?

9/22 Session 7: Positioning Applied: Differentiator

*Case:* Husky Injection Molding Systems, 9-799-157

1. What is Husky’s strategy? Why has the company been so successful in the period prior to the recent problems?

2. Are Husky injection molding systems worth the premium price the company charges? Be precise (i.e., crunch numbers).

3. What has caused Husky’s current difficulties?

4. How might Robert Schad, Husky’s CEO, and the company respond? How should they respond?
9/24 Session 8: Positioning Applied

*Case:* Trader Joe’s, 9-714-419

**Study questions:**

1. How do firms in the supermarket industry make money?

2. What are the key sources of Trader Joe’s competitive advantage?

3. What are the main threats to Trader Joe’s competitive advantage? Is their advantage sustainable?

4. How would you modify Trader Joe’s strategy going forward?

9/29 Session 9 Positioning Applied

*Case:* LEGO (A): The Crisis, N9-73-478

**Study questions:**

As this case opens, iconic toymaker LEGO stands on the brink of bankruptcy. Jørgen Vig Knudstorp, LEGO’s young and newly appointed CEO, must size up changes in the toy industry, learn from the company’s recent moves, and craft a strategy that will put LEGO back on track.

1. What has led the LEGO Group to the edge of bankruptcy?

2. What is your assessment of the management moves during “the growth period that wasn’t” and “the fix that wasn’t”?

3. As Jørgen, what would you do throughout the LEGO Group in order to turn the company around? Be specific.

10/1 Session 10: Positioning Applied

*Case:* eHarmony, 9-709-424

**Study questions:**

1. Why do people want to meet others on-line instead of finding them in the real world?

2. How structurally attractive is the on-line personals market?
3. Does eHarmony have a competitive advantage? If so, where does it come from?

4. How serious is the competitive threat to eHarmony?

5. Which of the four options should Waldorf pursue?

10/6 Session 11: Connected Strategy

Read the Prologue and Chapters 1, 4, 5 and 7 of Connected Strategy

Study questions:

1. Download the worksheets from: [https://connected-strategy.com/cases/](https://connected-strategy.com/cases/) by clicking on “View Blank Worksheets.” Pick an industry and four firms. Place the firms onto Slide 19 of the downloaded worksheets (“Step 1: Use the Connected Strategy Matrix to map your own activities and the activities of your competitors”). Write a few sentences on why you placed each firm into the particular cell(s) of the matrix (1 page max). Please submit your matrix and short explanation by 8am.

III. SUSTAINABILITY OF A COMPETITIVE ADVANTAGE

10/8 Session 12: The Decision to Commit to Large Irreversible Investments

Case: Du Pont’s Titanium Dioxide Business (A), 9-390-112

Study questions:

1. As Chairman of DuPont’s Executive Committee, would you vote for the "maintain" strategy or the "growth" strategy? Why?

2. How much of a cost advantage does DuPont have in titanium dioxide? For example, what cost advantage would DuPont have producing TiO2 in a 100,000 ton per year (tpy) ilmenite chloride plant compared to TiO2 produced in a 50,000 tpy rutile chloride plant added by one of its competitors? [Bonus question for number crunchers: Using data from Table 1, derive your own estimates of economies of scale and economies of learning.]
3. How sustainable is DuPont's competitive advantage?

10/13 Session 13: Student group meetings

10/15 Session 14: Sustainability


Study questions:

1. How do firms sustain their competitive advantage in Ghemawat’s view? How does this view differ from Porter’s view?

2. What are the five key take-aways from the Ghemawat & del Sol piece?

10/20 Session 15: Student group meetings

Individual Paper Due by 9am 10/21

10/22 Session 16: Competitor Reactions


Study questions:

1. As Bob Shapiro, you face competition in Europe and Canada for the first time. What do you do? Launch a price war or accommodate this entry? What are the payoffs for each strategy?

10/27 Session 17: Managerial Decision Making


Study questions:
Please read the Kahneman et al. HBR article. As you reflect on your own decision making, and of that which you have experienced in the organizations that you have worked for, which of the decision making pathologies that Kahneman describes have you been able to observe?

10/29 Session 18: Strategic Inflection Points, Increasing Returns


Study questions:

I would first read the few pages by Grove, then the Arthur article.

1. What is a Strategic Inflection Point? How do you recognize one? (Please try think of ways beyond the ones Grove suggests.) Where in the cases that we have studied did SIPs occur? What are other examples of SIPs?

2. What does Arthur mean by the term "increasing returns"?

3. What are instances of increasing returns that we have seen in the cases that we have studied?

4. Under what (general) conditions should we expect increasing returns?

5. How do you exploit increasing returns?

11/3 Session 19: Time for Reseatch: No class.

11/5 Session 20: Information Asymmetry and Entry

Case: Honda (A): 9-384-049

Study questions:

1. What is the strategy that has allowed Honda to be so successful in the motorcycle industry and, in particular, in the United States?

2. How did Honda come to have this strategy and its associated choices?

Paper Draft Due by 9am 11/5.
11/10 Session 21: Barriers to Change

Case: will be made available after previous class

11/12 Session 22: Architectural, Disruptive Change, Change in the Presence of Fit


Study questions:
1. How do Henderson and Clark explain that leading firms are frequently upset by entrants?

2. How does Christensen explain that leading firms are frequently upset by entrants?

3. Is tight fit among activities a liability when the environment changes?

4. Is the reasoning developed by these authors transferable outside the realm of technological innovation? How?

11/17 Session 23: Summary Case

Case: The a2 Milk Company: N9-719-424

Paper Feedback Due by Beginning of Class 11/17

Please submit your answers by 8am

Case: The a2 Milk Company: N9-719-424
Study question:

1. Imagine this case were the final exam for this class. Come up with three questions and sketch out answers for them (bullet points suffice; 2 pages max). In other words, think about which issues that we covered in class are raised in this case. Please submit your questions and answers by 8am.

11/19 Session 24: Strategic Planning


Study questions:
You don’t need to read the HBR article, I will talk about it in detail. It’s there for your reference.

1. You are being asked by your boss/your client: “Please help us in drafting up our next strategic plan.” What do you do? What questions do you need to have addressed?

IV. IT’S YOUR TURN

11/24 Session 25: Time for Research: No Class

11/26 Thanksgiving: No Class

12/1 Session 26: Group Presentations

12/3 Session 27: Group Presentations

12/8 Session 28: Wrap-Up

Optional: Competition and Business Strategy in Historical Perspective, 9-798-010

Study questions:

If you find time, I would recommend reading the strategy survey piece. It provides a nice overview of the field of strategy from both an academic and consulting point of view. I believe you will enjoy it as a “capstone” reading for this class.

Final Paper Due 12/15 at noon! & peer evaluation form