

COURSE INFORMATION

Course title:	Managerial Economics I	Credits:	1.5
Course code:	BAPA 550	Class location:	ANGU 335
Session, term, period:	2023W, Period 1	Class times:	MW 8:00am – 10:00am
Section(s):	--	Pre-requisites:	n/a
Course duration:	Sept 5 to Oct 14, 2023	Co-requisites:	n/a
Division:	Strategy & Business Econ.		
Program:	MM1		

INSTRUCTOR INFORMATION

Instructor:	Swapnika Rachapalli, Ph.D.	Office location:	HA 268
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COURSE DESCRIPTION

The purpose of this course is to help students understand key ideas in microeconomics and how they can be applied to managerial business problems. The course develops capacity to analyze an organization's economic environment, to understand the constraints this environment places on the organization's pursuit of its goals and to apply economic reasoning to decision making. The course will discuss the following topics:

- Market equilibrium; supply and demand; demand elasticity
- How do firms learn about demand?
- How can firms price their products effectively?
- How do firms interact strategically with others?
- How do firms and governments interact in the presence of environmental and other externalities?
- How does uncertainty affect decision-making and market outcomes?

COURSE FORMAT

This course will comprise readings, lectures, discussion, and exercises. Evaluation will entail online quizzes, a group assignment, and a final exam.





LEARNING OBJECTIVES

After successfully completing this course, students should be able to:

1. Apply economic principles to solve a range of managerial problems;
2. Determine optimal production levels and prices for a profit-maximizing firm operating in different market structures, and explain the effect of market structure on the firm's potential profits;
3. Show how a firm with market power can use advanced pricing strategies to increase profit;
4. Use game theory to analyze strategic interactions among firms;
5. Understand how public policy can influence firm behaviour to correct for market failures;
6. Explain how information asymmetries can lead to market failure.

SUSTAINABLE DEVELOPMENT GOALS (SDGS)

At UBC Sauder, we are committed to responsible business practices that can have transformative impacts on society. One of the ways we are reinforcing our commitment to responsible business is by showcasing relevant content in our courses via the lens of the [United Nations Sustainable Development Goals](#). In this course, we will touch on topics that relate to the following goals:

Sustainable Development Goal	Description of how and when the goal is covered in the course.
<p>GOAL 3: Good Health and Well-being</p> 	We will analyze taxes on sugar-sweetened beverages in week 1 and pitfalls in healthcare insurance markets in week 5.
<p>GOAL 12: Responsible Consumption and Production</p> 	In week 4 we consider market failures associated with self-interested decision-making and policies for internalizing externalities such as pollution, congestion, and waste.
<p>Goal 7: Affordable and Clean Energy</p> 	In week 4 we discuss energy efficiency and electrification.
<p>Goal 13: Climate Action</p> 	In week 4 we discuss incentives around carbon emission abatement and government policy, including subsidies, standards, taxes, and tradable permits.

ASSESSMENTS

Summary

<u>Component</u>	<u>Weight</u>
Group project	20%
Quizzes (12, 10, 8, 5, 5 best to worst)	40%
Final exam	40%
Total	<u>100%</u>

Details of Assessments

Group Project (20%)

Group video presentations are intended to further your understanding of how firm behavior and market outcomes are informed by economic principles and public policy in real-life applications. Projects will be undertaken by teams of four students, collaborating on the research, preparation, and presentation. I will form teams on Canvas. Each presentation should be eight minutes long (+/- 30 seconds) and can employ any mix of slides, pictures, original video, or other devices of your choice. Teams may choose their topic.

Grades will be based on the economic content, the quality of the analysis, and the quality of communication. Grades will be out of 20 points. Additional instructions will be provided on Canvas.

Quizzes (40%)

There will be five online quizzes, to be completed after each week. The quizzes will be based on only the material covered in the preceding week. More weight will be put on your quizzes with higher scores, according to the following weighting scheme, in order of best to worst quiz for each student: 12%, 10%, 8%, 5%, 5%.

Final Exam (40%)

The final exam will include both quantitative and qualitative questions. It will consist of multiple choice and short-answer questions. Partial credit will be granted for answers to the short-answer questions that show evidence of learning even if the answer is incorrect or incomplete.

LEARNING MATERIALS

Required: All readings will be available on Canvas. There will be a mix of textbook, lecture note, and applied readings. The textbook readings are excerpted from:

- (i) Jeffrey M. Perloff and James A. Brander: *Managerial Economics and Strategy*, 2nd edition, Pearson, 2017;
- (ii) James A. Brander: *Government Policy Toward Business*, 5th edition, Wiley, 2014;
- (iii) D. Curtis and I. Irvine: *Principles of Microeconomics*, Lryrx, 2020 - A. [\[Link to PDF\]](#)

Estimated cost of required materials: \$0

Additional recommended materials:

For those of you looking to get a jump on some of the material, you might find the following optional online resource helpful.

Marginal Revolution University Principles of Economics: Microeconomics

I recommend viewing the videos and completing the short set of practice questions after each one. <https://mru.org/principles-economics-microeconomics> (scroll down for videos by chapter)

Recommended viewing before Week 1

Chapter 1: Supply and Demand ~70 minutes

The Demand Curve: 3:30

The Supply Curve: 2:54

The Equilibrium Price and Quantity: 4:50

A Deeper Look at the Demand Curve: 7:47

The Demand Curve Shifts: 14:00

A Deeper Look at the Supply Curve: 7:30

The Supply Curve Shifts: 12:15

Exploring Equilibrium: 5:35

Does the Equilibrium Model Work?: 8:00

Supply and Demand Terminology: 3:55

Chapter 3: Elasticity ~35 minutes

Elasticity of Demand: 13:36

Calculating the Elasticity of Demand: 15:52

Office Hours: Elasticity of Demand: 4:22

Recommended viewing before Week 2

Chapter 11: Monopoly ~35 minutes

Maximizing Profit Under Monopoly: 11:10

Office Hours: Calculating Monopoly Profit: 5:48

The Monopoly Markup: 8:54

The Costs and benefits of Monopoly: 8:39

Chapter 12: Price Discrimination ~20 minutes

Introduction to Price Discrimination: 9:40

The Social Welfare of Price Discrimination: 8:03

Tying: 6:47

Bundling: 15:28

Recommended viewing before Week 3

Bonus Topics: Game Theory ~5 minutes

Recommended viewing before Week 4

Chapter 8: Externalities (all subsections) ~60 minutes

Recommended viewing before Week 5

Chapter 15: Asymmetric Information (all subsections) ~30 minutes

COURSE-SPECIFIC POLICIES AND RESOURCES

Missed or late assignments, and regrading of assessments

Late submissions will not be accepted and will receive a grade of zero.

Academic Concessions

If extenuating circumstances arise, please contact the RHL Graduate School program office as early as reasonably possible, and submit an [Academic Concession Request & Declaration Form](#) <https://webforms.sauder.ubc.ca/academic-concession-rhlee>. If an academic concession is granted during the course, the student will be provided options by RHL, or by the instructor in consultation with RHL, per [UBC's policy on Academic Concession](#).

POLICIES APPLICABLE TO COURSES IN THE ROBERT H. LEE GRADUATE SCHOOL

Attendance

Excepting extenuating circumstances, students are expected to attend 100% of their scheduled class hours. Absent students limit their own academic potential, and that of their classmates, and cause unnecessary disruption to the learning environment. Students missing more than 20% of the total scheduled class hours for a course (including classes held during the add/drop period) without having received an academic concession will be withdrawn from that course. Withdrawals, depending on timing, could result in a "W" or an "F" standing on the transcript.

COVID-19 Policies for Attendance & Academic Concessions:

If a student feels unwell, they should stay home and send a courtesy email to each impacted instructor and cc their program manager. The student should also submit an [Academic Concession Request & Declaration Form](#).

If a student suspects possible COVID-19 infection, they should use the BC Ministry of Health's [self-assessment tool](#), to help determine whether further assessment or testing for COVID-19 is recommended.

Punctuality

Students are expected to arrive for classes and activities on time and fully prepared to engage. Late arrivals may be refused entry at the discretion of the instructor or activity lead. Students arriving later than halfway through a scheduled class will be treated as absent for that class.

Electronic Devices

In-Person Regulations

Devices such as laptops, tablets, and cell phones are not permitted to be used in class unless directed by the instructor for in-class activities. Students who do not follow the School's policy in this regard may be required to leave the room for the remainder of the class, so that they do not distract others. Research shows that students' use of laptops in class has negative implications for the learning environment, including reducing their own grades and the grades of those sitting around them.

Citation Style

Please use the American Psychological Association (APA) reference style to cite your sources.

Details of the above policies and other RHL Policies are available at:

<http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,199,506,1625>

UNIVERSITY POLICIES AND RESOURCES

UBC provides resources to support student learning and to maintain healthy lifestyles but recognizes that sometimes crises arise and so there are additional resources to access including those for survivors of sexual violence. UBC values respect for the person and ideas of all members of the academic community. Harassment and discrimination are not tolerated nor is suppression of academic freedom. UBC provides appropriate accommodation for students with disabilities and for religious observances. UBC values academic honesty and students are expected to acknowledge the ideas generated by others and to uphold the highest academic standards in all of their actions. Details of the policies and how to access support are available on the UBC Senate website at <https://senate.ubc.ca/policies-resources-support-student-success>.

Respect for Equity, Diversity, and Inclusion

The UBC Sauder School of Business strives to promote an intellectual community that is enhanced by diversity along various dimensions including status as a First Nation, Metis, Inuit, or Indigenous person, race, ethnicity, gender identity, sexual orientation, religion, political beliefs, social class, and/or disability. It is critical that students from diverse backgrounds and perspectives be valued in and well-served by their courses. Furthermore, the diversity that students bring to the classroom should be viewed as a resource, benefit, and source of strength for your learning experience. It is expected that all students and members of our community conduct themselves with empathy and respect for others.

Academic Integrity

The academic enterprise is founded on honesty, civility, and integrity. As members of this enterprise, all students are expected to know, understand, and follow the codes of conduct regarding academic integrity. At the most basic level, this means submitting only original work done by you and acknowledging all sources of information or ideas and attributing them to others as required. This also means you should not cheat, copy, or mislead others about what is your work. Violations of academic integrity (i.e., misconduct) lead to the breakdown of the academic enterprise, and therefore serious consequences arise and harsh sanctions are imposed. For example, incidences of plagiarism or cheating may result in a mark of zero on the assignment or exam and more serious consequences may apply if the matter is referred to the President's Advisory Committee on Student Discipline. Careful records are kept in order to monitor and prevent recurrences.

Use of Artificial Intelligence

Generative AI Permitted Where Specified With Attribution

For this course, students may use generative artificial intelligence (AI), including ChatGPT, for specific assessments or coursework, where it is expressly specified by the instructor. In these cases of permitted use, students must disclose any use of AI-generated material as per the assessment guidelines. Please see your assessment guidelines for full details.

COPYRIGHT

All materials of this course (course handouts, lecture slides, assessments, course readings, etc.) are the intellectual property of the instructor or licensed to be used in this course by the copyright owner. Redistribution of these materials by any means without permission of the copyright holder(s) constitutes a breach of copyright and may lead to academic discipline and could be subject to legal action. Any lecture recordings are for the sole use of the instructor and students enrolled in the class. In no case may the lecture recording or part of the recording be used by students for any other purpose,

either personal or commercial. Further, audio or video recording of classes are not permitted without the prior consent of the instructor. Students may not share class Zoom links or invite others who are not registered to view sessions.

ACKNOWLEDGEMENT

UBC's Point Grey Campus is located on the traditional, ancestral, and unceded territory of the x^wməθk^wəy̓əm (Musqueam) people, who for millennia have passed on their culture, history, and traditions from one generation to the next on this site.

COURSE SCHEDULE

*P/B refers to Perloff and Brander (available on Canvas)

*Exact timing of topic coverage subject to some uncertainty

Session	Topic	Readings	Assessments due
1 – Sept 6	Supply & Demand	Lyryx: 3.1-3.9	
2 – Sept 8	S&D cont'd Elasticity & Welfare	Lyryx: 4.1-4.2, 4.7-4.8 Lyryx: 5.2-5.3	Quiz 1 due Sept 10
3 – Sept 11	Pricing Strategies	MRU: Monopoly P/B Ch. 10.1-10.2	
4 – Sept 13	Advanced Pricing Strategies	P/B Ch. 10.3-10.5	Quiz 2 due Sept 17
5 – Sept 18	Game Theory and Business Strategy	Custom Lecture Note	
6 – Sept 20	Game Theory and Business Strategy	Custom Lecture Note	Quiz 3 due Sept 24
7 – Sept 25	Externalities and Environmental Economics	Brander Chapter 9	
8 – Sept 27	Environmental Policy	“The Social Cost of Carbon”	Quiz 4 due Oct 2
9 – Oct 2	Risk preferences and Insurance	McKinsey risk article	Quiz 5 due Oct 9 Group Project due Oct 9
10 – Oct 4	Asymmetric Information: Adverse Selection and Agency Relationships	“Secrets and Agents”; NYT: Healthcare Policy	