

ECON 5509: Microeconomic Theory

2018/2019 Fall Course Syllabus

Monday and Wednesday 10:05-11:25; McCain 2022

Prof. Mutlu Yuksel

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Office hours: Monday 13:05-14:25 or appointment

Introduction: The main objective of the course is for students to be able to analyze problems in microeconomic theory at the beginning graduate level. Students successfully completing the course will be able to comfortably work standard problems in microeconomic theory using calculus based techniques and methods. Students will be able to develop models appropriate for different problems, present them in mathematical form, derive implications of maintained assumptions, analyze changes in model structure or form, and extend models to more complicated situations. Some of the topics that will be covered include consumer theory, theory of the firm, market structures, game theory and strategic behavior, and general equilibrium analysis.

Supplementary Economics Texts:

- Mas-Colell, A.M. Whinston and J.Green, *Microeconomic Theory*, Oxford: Oxford University Press [M-CWG]
- Varian, H. R. *Microeconomic Analysis*, 3rd edition, New York: W.W. Norton and Company, 1992. [V]
- Felix Munoz-Garcia, *Advanced Microeconomic Theory: An Intuitive Approach with Examples*, The MIT Press, August 2017. [FMG]
- Jehle and Reny, *Advanced Microeconomic Theory, Second Edition*, Addison Wesley Longman ,2001. [JR]
- Walter Nicholson, and Christopher M. Snyder, 10th edition, *Microeconomic Theory: Basic Principles and Extensions*, South-Western College Pub, 2007. [NS]

Supplementary Math Texts:

- Simon and Blume, *Mathematics for Economists*, W. W. Norton and Co. (1994).
- Chiang and Wainwright, *Fundamental Methods of Mathematical Economics*, Mc-Graw Hill.

Class Participation: (1) Students are expected to attend every lecture, complete the readings in advance of the lecture, and participate in classroom discussion; (2) when you miss a lecture, you cannot get the handout for that missed lecture from me; (3) I will not give any information over the phone or in response to emails that you would have known had you attended class or read BLS/syllabus information.

Course requirements and Grading

There will be a midterm and a comprehensive final exam.

Your grade will be based on the following:

Assignments 10%

Midterm 40% October 24th

Final 50% December 10th

There will be NO make-ups or extensions given for exams and assignments except with prior consent from me or in the event of an unexpected emergency.

If you miss a midterm for any reasons, the weight will be added to your final exam.

Final: The final exam will cover the subject matter of the entire course. The questions are not multiple-choice. **If you miss the final exam for a valid medical reason, you must notify the instructor immediately, provide appropriate medical documentation, and make arrangements to write-up exam as soon as health permits.**

GRADING

No books or notes are permitted during the exams. All exams must be taken on the date and time prescribed in the syllabus unless authorized by the instructor in advance. The only exceptions are personal or medical emergencies, in which case the student must provide a written excuse signed by a doctor, parent, or university official.

GRADES ARE NOT NEGOTIABLE. Do not contact me after the final semester grades have been posted asking me to change your grade for any reason. [Of course, if you believe your grade was posted erroneously by all means DO contact me.] Grades will be determined according to the following scale:

A+	A	A-	B+	B	B-	F
90+	85-89	80-84	77-79	73-76	70-72	<70

**Students with permanent or temporary disabilities who would like to discuss classroom or exam accommodations are asked to come and see me as soon as possible.*

TOPICS:

Consumer Theory: J: chs 1-2; V: chs 7-10; M-CWG: chs 1-3; NS: chs 1, 2 ; FMG: chs 1-3,5
Preference; utility; demand; constrained optimisation; income and substitution effects; Slutsky's equation; substitutes and complements; testing demand theory; the expenditure function; indirect utility functions; duality approaches; Roy's identity; compensated demand curves; consumer surplus, uncertainty

Producer Theory : JR: ch 3; V: chs 1-6; M-CWG: ch. 5; NS: chs 9-11 ; FMG: chs 4
Technology; production functions; profit and cost functions; duality approaches; Shephard's lemma and Hotelling's lemma; short and long-run supply functions.

MIDTERM: October 24th

Partial Equilibrium: JR: ch 4; V: chs 13, 14, 16; M-CWG: chs 10, 12 ; NS: chs 12,14,15 ; FMG: chs 6-8
Industry supply under perfect competition; monopoly, oligopoly and comparisons with perfect competition;

Competitive General Equilibrium: JR: ch 5; V: ch 17; M-CWG: chs 15,16; NS: ch 13 ; FMG: chs 6-8
The market mechanism; the two fundamental theorems of welfare economics.

Game theory: JR: ch 7; V: ch 15; M-CWG: chs 7, 8 ;NS: chs 7, 8; FMG: chs 8
Dominant strategies, Nash equilibrium.

FINAL: December 10th

Faculty of Science Course Syllabus (Section B)

University Policies and Statements

This course is governed by the academic rules and regulations set forth in the University Calendar and by Senate

Academic Integrity

At Dalhousie University, we are guided in all of our work by the values of academic integrity: honesty, trust, fairness, responsibility and respect (The Center for Academic Integrity, Duke University, 1999). As a student, you are required to demonstrate these values in all of the work you do. The University provides policies and procedures that every member of the university community is required to follow to ensure academic integrity.

Information: https://www.dal.ca/dept/university_secretariat/academic-integrity.html

Accessibility

The Advising and Access Services Centre is Dalhousie's centre of expertise for student accessibility and accommodation. The advising team works with students who request accommodation as a result of a disability, religious obligation, or any barrier related to any other characteristic protected under Human Rights legislation (Canada and Nova Scotia).

Information: https://www.dal.ca/campus_life/academic-support/accessibility.html

Student Code of Conduct

Everyone at Dalhousie is expected to treat others with dignity and respect. The Code of Student Conduct allows Dalhousie to take disciplinary action if students don't follow this community expectation. When appropriate, violations of the code can be resolved in a reasonable and informal manner—perhaps through a restorative justice process. If an informal resolution can't be reached, or would be inappropriate, procedures exist for formal dispute resolution.

Code: https://www.dal.ca/dept/university_secretariat/policies/student-life/code-of-student-conduct.html

Diversity and Inclusion – Culture of Respect

Every person at Dalhousie has a right to be respected and safe. We believe inclusiveness is fundamental to education. We stand for equality. Dalhousie is strengthened in our diversity. We are a respectful and inclusive community. We are committed to being a place where everyone feels welcome and supported, which is why our Strategic Direction prioritizes fostering a culture of diversity and inclusiveness

Statement: <http://www.dal.ca/cultureofrespect.html>)

Recognition of Mi'kmaq Territory

Dalhousie University would like to acknowledge that the University is on Traditional Mi'kmaq Territory. The Elders in Residence program provides students with access to First Nations elders for guidance, counsel and support. Visit or e-mail the Indigenous Student Centre (1321 Edward St) (elders@dal.ca).

Information: https://www.dal.ca/campus_life/communities/indigenous.html

Important Dates in the Academic Year (including add/drop dates)

https://www.dal.ca/academics/important_dates.html

University Grading Practices

https://www.dal.ca/dept/university_secretariat/policies/academic/grading-practices-policy.html

Student Resources and Support

Advising

General Advising https://www.dal.ca/campus_life/academic-support/advising.html

Science Program Advisors: <https://www.dal.ca/faculty/science/current-students/academic-advising.html>

Indigenous Student Centre: https://www.dal.ca/campus_life/communities/indigenous.html

Black Advising Centre: https://www.dal.ca/campus_life/communities/black-student-advising.html

International Centre: https://www.dal.ca/campus_life/international-centre/current-students.html

Academic supports

Library: <https://libraries.dal.ca/>

Writing Centre: https://www.dal.ca/campus_life/academic-support/writing-and-study-skills.html

Studying for Success: https://www.dal.ca/campus_life/academic-support/study-skills-and-tutoring.html

Copyright Office: <https://libraries.dal.ca/services/copyright-office.html>

Fair Dealing Guidelines <https://libraries.dal.ca/services/copyright-office/fair-dealing.html>

Other supports and services

Student Health & Wellness Centre: https://www.dal.ca/campus_life/health-and-wellness/services-support/student-health-and-wellness.html

Student Advocacy: <https://dsu.ca/dsas>

Ombudsperson: https://www.dal.ca/campus_life/safety-respect/student-rights-and-responsibilities/where-to-get-help/ombudsperson.html

Safety

Research Lab Safety

https://www.dal.ca/content/dam/dalhousie/pdf/dept/safety/lab_policy_manual_2007.pdf

Biosafety: <https://www.dal.ca/dept/safety/programs-services/biosafety.html>

Chemical Safety: <https://www.dal.ca/dept/safety/programs-services/chemical-safety.html>

Radiation Safety: <https://www.dal.ca/dept/safety/programs-services/radiation-safety.html>

Scent-Free Program: <https://www.dal.ca/dept/safety/programs-services/occupational-safety/scent-free.html>