UNIVERSITY OF TORONTO DEPARTMENT OF ECONOMICS

ECO2021H1, Fall 2020

Course Information

Instructor: Ronald Wolthoff E-mail: ronald.wolthoff@utoronto.ca Office hours: Friday 9:10 – 10:00 (or by appointment); online synchronous via Zoom Class: Mon 9.10 – 11.00, Wed 9.10 – 11.00; online synchronous via Zoom TA: Frank Leenders (frank.leenders@mail.utoronto.ca) Tutorial: Thu 16.10 – 18.00; online synchronous

Description

This course will cover equilibrium models of markets with frictions.

Evaluation

Your grade will be determined by the final exam (80%) and two homework assignments (10% each).

Tentative Course Outline (subject to change)

Class dates: October 28; November 2, 4, 16, 18, 23, 25, 30; December 2, 7, 9, 10. Exam: TBA

The class will cover a selection of the following topics. Additional topics may be added if time permits.

- Background Material: Dynamic programming; Poisson processes; (continuous-time) Bellman equations; continuous-time optimization; Nash bargaining; HP filter.
- Moral Hazard in the Labor Market: Chapter 9.1-9.4 of Romer, Shapiro and Stiglitz (1984).
- Indivisible Labor: Hansen (1985), Rogerson (1988).
- Search Frictions
 - Search Models: Lucas and Prescott (1974), Pissarides (1985), Mortensen and Pissarides (1994), Chapter 1 and 2 of Pissarides (2000).
 - Efficiency: Hosios (1990), Moen (1997).
 - Business Cycles / Unemployment-Volatility Puzzle: Shimer (2005), Hagedorn and Manovskii (2008), Menzio and Shi (2011).
- Private Information in Asset Markets: Guerrieri et al. (2010), Chari et al. (2011), Guerrieri and Shimer (2012), Chang (2018)

Notice of video recording and sharing

This course, including your participation, will be recorded on video and will be available to students in the course for viewing remotely and after each session. Course videos and materials belong to your instructor, the University, and/or other source depending on the specific facts of each situation, and are protected by copyright. In this course, you are permitted to download session videos and materials for your own academic use, but you should not copy, share, or use them for any other purpose without the explicit permission of the instructor. For questions about recording and use of videos in which you appear please contact your instructor.

References

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- Hosios, A. K. (1990). On the efficiency of matching and related models of search and unemployment. *Review of Economic Studies*, 57:279–298.
- Lucas, R. E. and Prescott, E. C. (1974). Equilibrium search and unemployment. Journal of Economic Theory, 7(2):188–209.
- Menzio, G. and Shi, S. (2011). Efficient search on the job and the business cycle. Journal of Political Economy, 119:468–510.
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- Shimer, R. (2005). The cyclical behavior of equilibrium unemployment and vacancies. American Economic Review, 95(1):25–49.