

University of International Business and Economics International Summer School

ECON 366 Urban Economics

Term: December 19th, 2022 - January 13th, 2023

Instructor: Yao Yao

Home Institution: Curtin University & Shanghai Lixin University of Accounting and Finance

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Class Hours: Monday through Friday, 120 minutes each day (2,400 minutes in total)

Discussion Session: 2 hours each week

Office Hours: TBD

Total Contact Hours: 64 contact hours (45 minutes each, 48 hours in total)

Credit: 4 units Location: WEB

Course Description:

Economic analysis of the forces determining an urban area's income, employment, land use, industrial structure, and public sector. Applications to issues such as housing, central city-suburban relationships, transportation, and neighborhood economic development. Students will be trained to estimate the relationship between urban density/city size and a set of economic indicators e.g. GDP per capita and labor productivity, and crime rate.

Course Goals:

Upon successful completion of this course, students will be able to:

- 1. Use microeconomic theory to explain the location and structure of cities.
- 2. Assess the impact of city ordinances (such as zoning or growth controls) on urban economic development.
- 3. Explain the economic underpinnings of selected urban issues (such as poverty, transportation, education, employment and crime).
- 4. Estimate the relationship between urban density/city size with a set of economic indicators.

Prerequisite:

Introductory level Microeconomics Fundamental Statistics

Required Textbook:

- 1. Urban Economics 8th Edition Arthur O'Sullivan ISBN 978-0-07-351147-4
- 2. Principles of Econometrics, ^{5th} Edition R. Carter Hill, William E. Griffiths, Guay C. Lim ISBN: 978-1-119-32094-4



Reading List:

A Zheng, S., Kahn, M. E., & Liu, H. (2010). Towards a system of open cities in China: Home prices, FDI flows and air quality in 35 major cities. Regional Science and Urban Economics, 40(1), 1-10. doi:http://dx.doi.org/10.1016/j.regsciurbeco.2009.10.003

B Zheng, S., Kahn, M. E., Sun, W., & Luo, D. (2014). Incentives for China's urban mayors to mitigate pollution externalities: The role of the central government and public environmentalism. Regional Science and Urban Economics, 47, 61-71. doi:https://doi.org/10.1016/j.regsciurbeco.2013.09.003

C Zheng, S., Sun, W., Wu, J., & Kahn, M. E. (2017). The birth of edge cities in China: Measuring the effects of industrial parks policy. Journal of Urban Economics, 100, 80-103. doi:http://dx.doi.org/10.1016/j.jue.2017.05.002

D Zheng, S., Zhang, X., Sun, W., & Lin, C. (2019). Air pollution and elite college graduates' job location choice: evidence from China. The Annals of Regional Science, 63(2), 295-316. doi:10.1007/s00168-019-00939-6

E Zheng, S., Zhang, X., Sun, W., & Wang, J. (2019). The effect of a new subway line on local air quality: A case study in Changsha. Transportation Research Part D: Transport and Environment, 68, 26-38. doi:https://doi.org/10.1016/j.trd.2017.10.004

Exams:

The final exam is not carried out to assess learning outcomes of this unit. Instead, students are expected to conduct research using real world dataset and write a formal report with at least 3000 words in length. This exercise is group oriented. Students are encouraged to form several groups, each of with 4-6 individuals. The final marks are based on the quality of both group report and class presentation.

The following topics are encouraged but not limited to them. Other topics from students are upon approval from instructor:

- 1. A curse or blessing? The role of urban density in Hong Kong.
- 2. Housing market in Hong Kong: the role of land supply.
- 3. The driving forces of housing price in first-tier cities in Mainland China.
- 4. College graduates and housing price in the first-tier cities in Mainland China.
- Capitalizing the environmental quality in Chinese cities: Estimating the willingness-to-pay.

Personal Strategic Plan:

- 1. Explain the economic theory using real world context.
- 2. Avoid too much mathematical derivations.
- 3. Focus on real world implications and applications.
- 4. Apply the theory into practice with dataset.
- 5. Formal research training.

Grading Policy:

Grades for this course will be based on the following:

Attendance	20%
Participation	10%
Group report	40%
Group presentation	30%

Grading Scale:

Assignments and examinations will be graded according to the following grade scale:

Α	90-100	C+	72-74
Α-	85-89	С	68-71
B+	82-84	C-	64-67
В	78-81	D	60-63
B-	75-77	F	below 60

Class Schedule:

Date	Lecture	Readings
Day 1	 Introduction and Axioms of Urban Economics What Is urban economics and why do cities exist? The Five Axioms of Urban Economics 	Chapter 1 of O'Sullivan
Day 2	 Why Do Cities Exist? A Region without Cities—Backyard Production Comparative Advantage and Trade Scale Economies in Exchange A Factory City Determining Wages and Prices The Market Area of a Factory City The Industrial Revolution and Factory Cities A System of Factory Cities Innovation Cities 	Chapter 2 of O'Sullivan & Reading List A
Day 3	 Why Do Firms Cluster? Sharing Intermediate Inputs Self-Reinforcing Effects Cause Industry Clusters Sharing a Labor Pool Labor Matching Knowledge Spillovers Urbanization Economies Other Benefi ts of Urban Size 	Chapter 3 of O'Sullivan & Reading List B



1951	University of International Business and Economics	
	City Size	
	Utility and City Size	
	A System of Cities	Chapter 4 of
Day 4	 Specialized and Diverse Cities 	O'Sullivan
	Differences in City Size	
	 The Size Distribution of Cities 	
	Check the size of world first-tier cities	
	Urban Economic Growth	
	 Economic Growth: Increase in Per-Capita Income 	
	 Human Capital and Economic Growth 	
	 The Urban Labor Market 	Chapter 5 of
Day 5	 Employment Growth and Decline of the U.S. 	O'Sullivan
Day 3	Manufacturing Belt	&
	The case of USA and the case of China	Reading List C
	 Public Policy and Equilibrium Employment 	
	 Projecting Changes in Total Employment 	
	• Who Benefi ts from Increased Employment?	
	Urban Land Rent	
	 Introduction to Land Rent 	
	 Bid-Rent Curves for the Manufacturing Sector 	
	Bid-Rent Curves for the Information Sector	Chapter 6 of
Day 6	 Office Bid-Rent Curves with Factor Substitution 	O'Sullivan
,	 Housing Prices 	&
	The Residential Bid-Rent Curve	Reading List D
	 Relaxing the Assumptions: Time Costs, Public 	
	Services, Taxes, Amenities	
	Land-Use Patterns	
	The Spatial Distribution of Employment	
	The Spatial Distribution of Population	Chapter 7 of
Day 7	The Rise of the Monocentric City	O'Sullivan
Day 7	The Demise of the Monocentric City	&
	Urban Sprawl	Reading List E
	Are Skyscrapers Too Tall?	
	Neighborhood Choice	
	Diversity versus Segregation	
Day 8	Sorting for Local Public Goods	
	Neighborhood Externalities Neighborhood Chaics	Chapter 8 of
	Neighborhood Choice Neighborhood Choices: The Bales of Education and	O'Sullivan
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Day 15	 Education Spending and Educational Achievement School Inputs: The Importance of Teachers Innovation: Charter Schools Spending Inequalities and Public Policy Education in Central Cities The Context of Shanghai 	Chapter 12 of O'Sullivan
Day 16	Crime Crime Facts The Rational Criminal The Equilibrium Quantity of Crime Legal Opportunities and Education Applications: Big-City Crime and the Crime Drop How Much Crime? The Role of Prisons	Chapter 13 of O'Sullivan
Day 17	 Why Is Housing Different? Heterogeneity and Hedonics Durability, Deterioration, and Maintenance Moving Costs and Consumer Disequilibrium The Filtering Model of the Housing Market Housing Policy The Migrant Workers in China and Housing price 	Chapter 14 of O'Sullivan
Day 18	Group Presentation 3 Q&A	
Day 19	Group Presentation 4 Q&A	
Day 20	Group Presentation 5 Q&A	